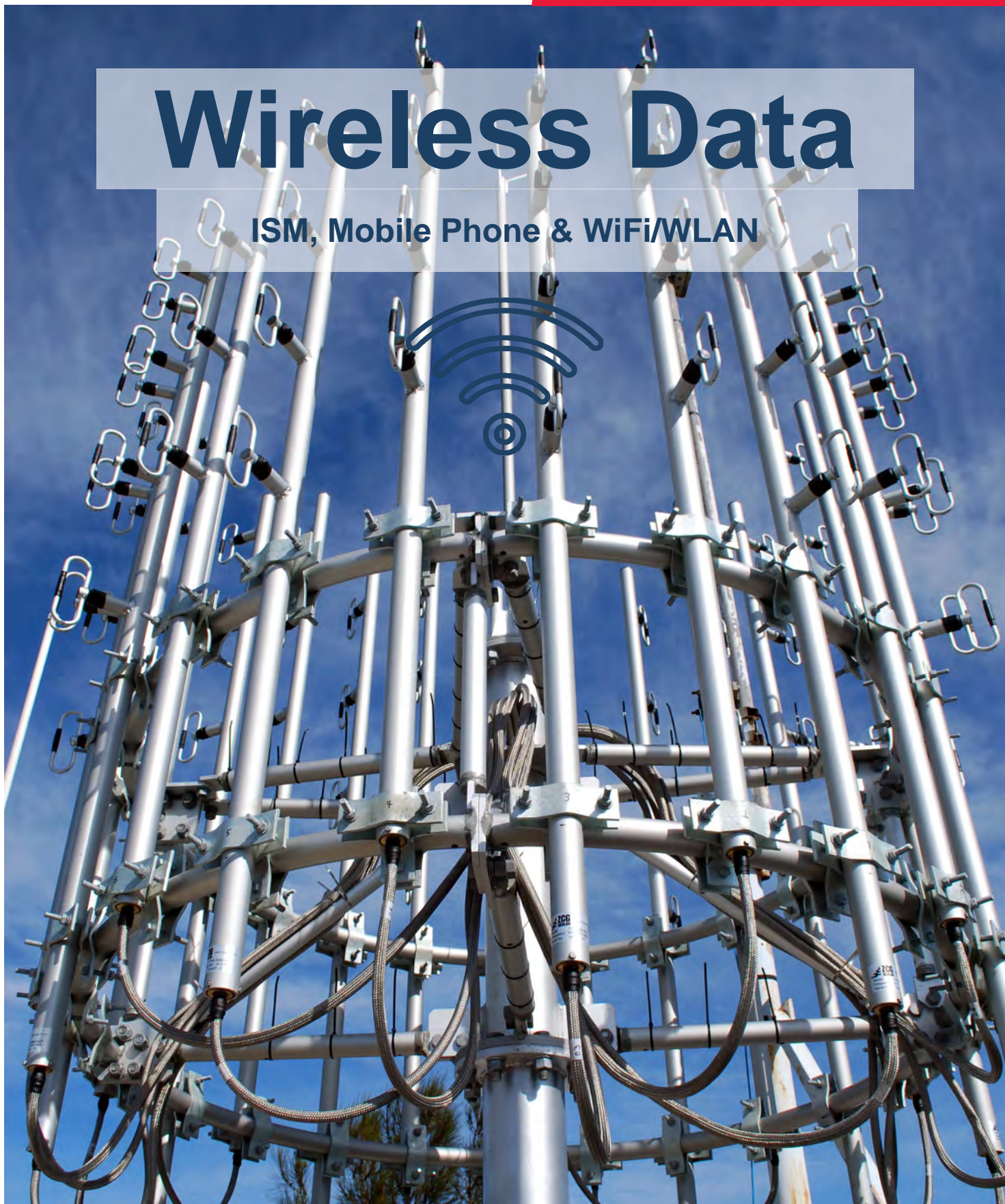




www.zcg.com.au

Wireless Data

ISM, Mobile Phone & WiFi/WLAN



Wireless Data

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ISM433

Collinear

- ZN1-400-N	360-470 MHz, specify 15 MHz, 100W, N-type female, 4 metre cable - 735mm
- ZN1-400-N-100	360-470 MHz, specify 15 MHz, 100W, N-type female, 100mm cable - 735mm

Log Periodic

- LPY400SS	350-650 MHz, 150W, N-type female, 8.3 dBi, 304 stainless steel - 700mm
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Whip

- M99N-433	433 MHz, 25W, N-type male, 2.1 dBi - 200mm
- M99SMA-433	433 MHz, 25W, SMA male, 2.1 dBi - 160mm
- ZN3-434-04-TPM	430-440 MHz, 100W, UHF male PL259, 2.1 dBi - 400mm
- ZWGPS	433 MHz, 2W, M5 eyelet, 2.1 dBi - 360mm

Yagi

- Y400C-R Series	420-440 MHz, 4-15 elements, 150W, 9-14 dBd, N-type female - 1.2-2.5 metres
- Y404-RH	380-520 MHz, specify 20 MHz, 4 elements, 150W, N-type female, 7.5 dBd, hand-held - 900mm

ISM900 / IoT / LoRA / M2M - 902-928 MHz

Collinear

- SG900-B-TPM	918-928MHz, 25W, FME female, 5 metre cable, 6.2 dBi, black radome - 800mm
- SG900-W-TPM	918-928 MHz, 25W, FME female, 5 metre cable, 6.2 dBi, white radome - 800mm
- SGL900	918-928 MHz, 25W, FME female, 5 metre cable, 6.2 dBi, parallel spring base - 800mm
- CFD890	853-929 MHz, 20W, SMA male, 3 metre cable, 2.1 dBi - 400mm
- DLD860	845-875 MHz, 20W, SMA male, 1.8 metre cable, 2.1 dBi - 280mm
- DLD900	900-930 MHz, 20W, SMA male, 900mm cable, 2.1 dBi - 230mm
- DLD900-2	900-930 MHz, 20W, SMA male, 2.0 metre cable, 2.1 dBi - 230mm
- CMG920-6	915-928 MHz, 20W, N-type female. 8.1 dBi - 2.5 metres
- ZSG-1977	902-928 MHz, 100W, concealed N-type female, 5.1 dBi - 615mm

Hand Portable

- M99BNC-900	900-930 MHz, 25W, BNC male, 2.1 dBi - 190mm
- M99N-900	900 MHz, 25W, N-type male, 2.1 dBi - 114mm
- ZSMA-905	870-940 MHz, 5W, SMA male, 2.1 dBi - 110mm
- ZGSM-WX-825	All networks 4G/3G 825-990 MHz, 50W, SMA male, 5.5 dBi, right-angle pivot mount - 280mm
- ZYUE-4GLTE-001	All networks 4GLTE, 4G/3G 704-960 & 1710-2690 MHz, 10W, 4.5 dBi, SMA male, right-angle pivot mount - 105mm
- ZYUE-4GLTE-N001	All networks 4GLTE, 4G/3G 704-960 & 1710-2690 MHz, 10W, 4.5 dBi, SMA male, right-angle pivot mount - 182mm
- ZYUE-4GLTE-002	All networks 4GLTE, 4G/3G 704-960 & 1710-2690 MHz, 10W, 4.5 dBi, SMA male - 105mm
- ZYUE-WX-900F	902-928 MHz, 5W, reverse polarity SMA male, 5.5 dBi - 210mm
- M96T	890-960 MHz, 5W, M6 x 1.0 female thread, 2.1 dBi - 70mm

Wireless Data

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ISM900 / IoT / LoRA / M2M (continued)

Log Periodic

- LPY2250	800-2250 MHz, 250W, N-type female, 8dBi - 480mm
- LPY2250-25	650-2250 MHz, 250W, N-type female, 10.2 dBi - 1.15 metre
- LPY2250-716	790-2250 MHz, 1kW, 7/16" DIN female, 10.2 dBi - 900mm
- LPY698-2700S	698-960 & 1710-2700 MHz, 50W, N-type female, 11 dBi, radome enclosed - 400mm
- LPY698-2700	698-2700 MHz, 100W, N-type female, 8 dBi, radome enclosed - 290mm

Low Profile

- GCRFA	698-800/825-960/1710-2170 MHz + L1 GPS + WiFi/WLAN 2.4 & 5.8 GHz, 3 x 3m cable, 4dBic - 100mm dia.
- ZRPM	915 MHz & 2.4 GHz, 10W, SMA male or specify, specify cable length, 3 dBd, specify reflector colour - 116mm
- ZAW-9-LTE	698-960 MHz, 1710-2700 MHz, SMA male, 3m cables, 1.2-5.33dB - 80mm dia.

Mobile Phone Networks - 5G, 4G LTE, 4G & 3G

Collinears

- SG700-4GX-TPM	All networks 4G LTE 718-788 MHz, 50W, N-type female, 5 metre cable, 1/2" BSW thread, 5.1 dBi - 1.1 metre
- SG700-MMA	700-900 MHz, specify 50 MHz, 30W, BNC male, 4.5m cable, 6.2 dBi - 900mm
- SGDB-TPM series	All networks dualband 4G/3G, 50W, FME female, 5 metre side exit cable, 1/2" BSW thread, 6.2 & 3dBi - 800mm
- SGDB-TPM-BE	All networks dualband 4G/3G, 50W, FME female, 5 metre bottom exit cable, 1/2" BSW thread, 6.2 & 3 dBi - 800mm
- SGDB-MM-N	All networks dualband 4G/3G, 30W, N-type female, 6.2 & 3 dBi - 1.4 metre
- SGDB-T10	All networks dualband 4G/3G, 30W, N-type female, 10 metre cable, MMA mount, 6.2 & 3 dBi - 1.1 metres
- SGLDB Series	All networks dualband 4G/3G, 30W, FME female, 5 metre cable, parallel spring base, 6.2 & 3 dBi - 750mm
- SGLWB	4G LTE and 4G/3G, 700-960 MHz & 1710-2700 MHz, 5 metre cable, parallel spring base, 2.1 dBi - 750mm
- CM1600-4GX	All networks 4G LTE 700-788 MHz, 20W, N-type female, 8.1 dBi - 1.85 metres
- CM1600AM	Lower 4G/3G 825-890 MHz, 20W, N-type female, 8.1 dBi, Telstra - 2.4 metres
- CMG1600AM-AC	Lower 4G/3G 890-960 MHz, 20W, N-type female, 8.1 dBi, Optus & Vodafone - 2.4 metres
- SG1885-TPM	1.885-1.905 GHz, 10W, TNC male, 3 metre cable, 1/2" BSW thread, 5.14 dBi - 500mm
- SGL1800	1.71-1.88 GHz, 30W, SMA male, 5m cable, parallel spring base, 6.2 dBi - 480mm
- SG2000-MM	1.92-2.17 GHz, 30W, N-type female, 100mm cable, 6.2 dBi - 550mm
- SGL2000	1.92 - 2.17 GHz, 30W, FME female, 5m cable, parallel spring base, 6.2 dBi - 480mm
- SG3500	5G 3.4-3.6 GHz, 20W, N-type female, 800mm cable, 1/2" BSW thread, 6 dBi - 500mm
- SGL3500	5G 3.4-3.6 GHz, 20W, N-type female, 800mm cable, parallel spring base, 6 dBi - 500mm
- Z3500-10-NF	5G 3.4-3.7 GHz, 50W, N-type female, mount adaptor, 10 dBi - 780mm

Elevated feed - light-duty whips

- GID-M70T	All networks 4G LTE 703-748 MHz, 5W, FME female, 4.5 metre cable, 5.1 dBi - 550mm
- GID-M90T-NextG-SS	Lower 4G/3G 825-890 MHz, 5W, FME female, 4.5 metre cable, 5.1 dBi, Telstra - 450mm
- GID-M90T-GSM	Lower 4G/3G 890-960 MHz, 5W, FME female, 4.5 metre cable, 5.1 dBi, Optus & Vodafone - 450mm
- GIDM-DB	All networks lower 4G/3G 825-960 MHz, 5W, FME female, 4.5 metre cable, 2.1 dBi, Telstra, Optus & Vodafone - 270mm
- GIDM-800	Lower 4G/3G 825-960 MHz, 5W, FME female, 4.5 metre cable, 2.1 dBi, Telstra - 220mm
- MAG-M70T700	700-730 MHz, 5W, N-type male or specify, 5m cable, magnetic base, 5 dBi - 404mm
- MAG-M90T800	825-890 MHz, 5W, SMA male or specify, 5m cable, magnetic base, 5 dBi - 358mm
- MAG-M90T900	890-960 MHz, 5W, SMA male or specify, 5m cable, magnetic base, 5 dBi - 342mm
- MAG-CELL-DB series	700-890 MHz & 1750-2170 MHz, 5W, magnetic base, 3.1 dBi - 135mm

Hand Portable

- C858	All networks dualband 4G/3G 825-960 & 1710-2190 MHz, 5W, FME female, 2.1 dBi - 56mm
- M96T	Lower 4G/3G 825-890 MHz, 5W, M6 x 1.0 female thread, 2.1 dBi - 75mm
- M96T-GSM	Lower 4G/3G 890-960 MHz, 5W, M6 x 1.0 female thread, 2.1 dBi - 70mm
- ZGSM-WX-750	All networks 700-800 MHz, 50W, SMA male, 5.5 dBi, right-angle pivot mount - 280mm
- ZGSM-WX-825	All networks lower 4G/3G 825-990 MHz, 50W, SMA male, 5.5 dBi, right-angle pivot mount - 280mm
- ZYUE-4GLTE-001	All networks 4GLTE, 4G/3G 704-960 & 1710-2690 MHz, 10W, 4.5 dBi, SMA male, right-angle pivot mount - 105mm
- ZYUE-4GLTE-N001	All networks 4GLTE, 4G/3G 704-960 & 1710-2690 MHz, 10W, 4.5 dBi, SMA male, right-angle pivot mount - 182mm

Wireless Data

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Mobile Phone Networks - 5G, 4G LTE, 4G & 3G (continued)

Radome Enclosed Yagi

- Y1809	Upper 4G/3G 1.71-1.88 GHz, 25W, N-type female, 200mm cable, 11.3 dBi - 300mm
- Y2009	Upper 4G/3G 1.9-2.17 GHz, 25W, N-type female, 200mm cable, 11.3 dBi - 300mm
- Y3009-9	3.4-3.6 GHz, 25W, N-type female, 200mm cable, 11.3dBi - 300mm

M.I.M.O. Enclosed Yagi

- Y1809-MIMO-2	Upper 4G/3G 1.9-2.17 GHz, 25W per input, +/- 45 deg, N-type female, 11.3 dBi per plane - 345mm
- Y2009-MIMO-2	Upper 4G/3G 1.9-2.17 GHz, 25W per input, +/- 45 deg, N-type female, 11.3 dBi per plane - 345mm

Low Profile

- CT800	Lower 4G/3G 825-890 MHz, 5W, N-type female, 2.1 dBi, Telstra- 150mm
- CT900	Lower 4G/3G 890-960 MHz, 5W, N-type female, 2.1 dBi, Optus & Vodafone - 150mm
- GCRFA	LTE + 4G/3G + L1 GPS + WiFi 2.4 GHz & 5.8 GHz, 3 x 3m cable, 4dBic - 100mm dia.
- ZAW-9-LTE	All networks 4G LTE, 4G/3G, GPS/GLONASS & WiFi, 10W, SMA male, 3 x 10m cable, 1.2 dBi - 80mm dia.
- ZAW-WiFi-4G	All networks 4G LTE, 4G/3G, GPS/GLONASS & WiFi, 5W, SMA male, 3 x 5m cable, 0.7-5.5 dBi, magnetic mount - 80mm
- ZAU-GPSWL-5	All networks 4G LTE, 4G/3G, GPS & WiFi, 10W, 3 x 5m cables, 6 dBi, 'Shark-fin' - 41.5mm
- ZCG-EEH-L01	All networks 4G LTE, 4G/3G & WiFi, 5W, N-type female, 2.1dBi - 75.6mm
- ZCG-EEH-L01FC	All networks 4G LTE, 4G/3G & WiFi, 5W, FME female, 2 metre cable, 2.1 dBi - 80mm
- ZCG-EEH-L01-SMA	All networks 4G LTE, 4G/3G & WiFi, 5W, SMA male, 1 metre cable, 2.1 dBi - 80mm
- ZCG-EEH-L01-NC	All networks 4G LTE, 4G/3G & WiFi, 5W, 4 metre cable, 2.1 dBi - 80mm

M.I.M.O Panel

- ZD8Z-XP-MIMO	All networks 4G LTE, 4G/3G & WiFi, +/- 45 deg X-pol., 100W, 2 x N-type female, 8 dBi - 310mm
- ZD8Z-XP-716-MIMO	All networks 4G LTE, 4G/3G & WiFi, +/- 45 deg X-pol., 500W, 2 x 7/16" DIN, 8 dBi - 310mm
- ZMP-1835-65XP	5G 3.3-3.8 GHz, +/- 45 deg X-polarised, 100W, 2 x N-type female, 18 dBi - 700mm

Panel

- ZCM-698-6000	5G, 4G LTE, 4G/3G & WiFi, vert. pol. 50W, N-type female, 1.7-5.5 dBi - 298mm dia.
- ZCM-806-2500	All networks dualband 4G/3G and WiFi, vert. pol., 100W, N-type female, 3 dBi - 170mm dia.
- ZP-1935R-DP	UHF/5G 3.3-3.8 GHz, V&H pol., 50W, N-type female, 19 dBi per plane - 320mm
- ZP-1935R-XP	UHF/5G 3.3-3.8 GHz, +/- 45 deg. X-pol., 50W, N-type female, 19 dBi per plane - 320mm
- ZP-1935RE-XP	UHF/5G 3.3-3.8 GHz, +/- 45 deg. X-pol., 50W, N-type female, 19 dBi per plane, rear enclosure - 320mm
- ZP-1935RF-DP	UHF/5G 3.3-3.8 GHz, V&H pol., 50W, N-type female, 19 dBi per plane, rear enclosure - 320mm
- ZP-2335IF-DP	UHF/5G 3.3-3.8 GHz, V&H pol., 50W, N-type female, 23 dBi per plane, rear enclosure - 450mm
- ZP-698-2700	All networks 4G LTE, 4G/3G & WiFi, 50W, SMA female, 7-9 dBi - 100mm
- ZP-806-2500	All networks 4G LTE, 4G/3G & WiFi, Vert. pol., 100W, N-type female, 7 dBi, interior model - 210mm
- ZP-806-2500-E	All networks 4G LTE, 4G/3G & WiFi, Vert. pol., 100W, N-type female, 7 dBi, exterior model - 210mm
- ZP-CP1721-15	All networks upper 4G/3G 1.71-2.17 GHz, +/- 45 deg. X-pol, 300W per input, 2 x 7/16" DIN, 15 dBi, tilt adjust. - 760mm
- ZP-CP1721F-15	All networks upper 4G/3G 1.71-2.17 GHz, +/- 45 deg. X-pol, 300W per input, 2 x 7/16" DIN, 15 dBi, fixed mount - 760mm

Wireless Data

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Mobile Phone Networks - 5G, 4G LTE, 4G & 3G (continued)

Power Divider / Splitter

- PD-NN2-8002700	2-way power splitter/divider, 800-2700 MHz, 50W, 3 x N-type female, >20dB isolation - 96mm
- PD-6QMA-6982700	6-way power divider/splitter, 698-2700 MHz, 40W forward, 6 x QMA female, >20dB isolation - 152mm
- PS-2NSM-0727	All networks 4G LTE, 4G/3G & WiFi power splitter, 700-2700 MHz, 50W, 2 x N-female or SMA female, >20dB isol.
- PS-8NSM-0727	All networks 4G LTE, 4G/3G & WiFi power splitter, 700-2700 MHz, 50W, 8 x N-female or SMA female, >20dB isol.
- Z6DC-8002500	6dB directional coupler, 800-2500 MHz, 200W, N-type female, >20dB isolation - 86mm
- ZAPD-1-N	2-way DC pass power splitter/combiner 500-1000 MHz, 10W input, N-type female, >25dB isolation - 51mm
- ZA3PD-1-N	3-way DC pass power splitter/combiner 500-1000 MHz, 10W input, N-type female, >20dB isolation - 51mm

850-2300MHz

Collinear

- Z1100-8	UHF or ADS-B 1.0-1.1 GHz, 25W, N-type female, 10 dBi - 1.7 metre
- Z1280	1.27-1.29 GHz, 50W, N-type female, 10 dBi - 1.24 metre
- SG1400	1.35-1.4 GHz, 20W, N-type female, 5.2 dBi - 520mm
- CFD1420	1.42-1.52 GHz, 20W, SMA male, 3 metre cable, 2.1 dBi - 220mm
- MD1800B	1.7-1.8 GHz, 10W, SMA male, 5 metre cable, 2.1 dBi, 1/2"-12BSW threaded mount - 320mm
- MD1800-MGB	1.7-1.8 GHz, 10W, SMA male, 5 metre cable, 2.1 dBi, 105mm dia magnetic mount - 320mm
- SG1885-TPM	1.885-1.905 GHz, 10W, TNC male, 3 metre cable, 5.14 dBi - 500mm
- SGL1900-TPM	1.88-1.92 GHz, 5W, MX male, 5 metre RG316 cable, 6.2 dBi, includes GM1 - 480mm
- SGL1900-TPM-58	1.88-1.92 GHz, 100W, N-type female, 5m RG58 cable, 6.2 dBi, includes GM1 - 480mm
- MD1950	1.8-2.1 GHz, 10W, SMA male, 5 metre cable, 2.1 dBi - 340mm

Hand Portable

- ZYUE-WX-2000D	1.8-2.0 GHz, 50W, SMA male, 2.1 dBi - 80mm
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Radome Enclosed Yagi

- Y1809-DECT	1.88-1.9 GHz, 25W, N-type female, 5 metre cable, 11.3 dBi - 300mm
- Y1818-DECT	1.8-1.9 GHz, 25W, N-type female, 200mm cable, 15.3 dBi - 950mm

Yagi

- Y1115	1.1 GHz or ADS-B 1.09 GHz, 100 MHz B/W, 125W, N-type female, 14 dBd - 1.35 metre
- Y1215	1.2 GHz, 100 MHz B/W, 125W, N-type female, 14 dBd - 1.35 metre
- Y1315	1.3 GHz, 100 MHz B/W, 20W, N-type female, 14 dBd - 1.3 metre
- Y1515	1.42-1.52 GHz, 125W, N-type female, 14 dBd - 1.4 metre
- Y1615	1.52-1.62 GHz, 125W, N-type female, 14 dBd - 980mm

ISM2.4 / WiFi / WLAN

Circular Polarised

- CP2400-15	2.4-2.5 GHz, 50W, N-type female, RHCP, 17.1 dBi - 1.12 metre
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Wireless Data

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ISM2.4 / Wi-Fi / WLAN (continued)

Collinear

- DLD2400	2.4-2.5 GHz, 20W, SMA male, 600mm cable, 2.1 dBi - 115mm
- MD2400-B	2.4-2.5 GHz, 20W, SMA male, 5 metre cable, 2.1 dBi - 230mm
- MD2400-SPB	2.4-2.5 GHz, 10W, Reverse polarity SMA male, 5 metre cable, 2.1 dBi, parallel spring base - 300mm
- SG2400-8	2.4-2.5 GHz, 10W, Reverse polarity SMA male, 5 metre cable, 8 dBi, parallel spring base - 550mm
- SG2400-TPM	2.4-2.5 GHz, 10W, TNC male, 500mm cable, 5.14 dBi, 1/2"-12BSW threaded mount - 550mm
- SG2400-R	2.4-2.5 GHz, 10W, TNC male, 500mm cable, 8 dBi, 100mm dia flange base - 550mm
- SG2400-RS	2.4-2.5 GHz, 10W, N-type female, 8.1 dBi, directional rear reflector mount - 495mm
- Z2400-8	2.4-2.5 GHz, 50W, N-type female, 10 dBi - 850mm
- Z2400-8-RS	2.4-2.5 GHz, 50W, N-type female, 12 dBi, directional rear reflector mount - 800mm
- Z2500-8	2.46-2.58 GHz, 50W, N-type female, 10 dBi - 820mm

Enclosed Yagi

- Y2400-9	2.4-2.5 GHz, 25W, N-type female, 200mm cable, 11.3 dBi, white or black radome - 300mm
- Y2400-18	2.4-2.45 GHz, 25W, N-type female, 200mm cable, 17.8 dBi, white or black radome - 700mm

Hand Portable

- WH2400-2	2.4 GHz, 5W, SMA male, 2.1 dBi - 70mm
- WH2400-3	2.485 GHz, 5W, SMA male, 2.1 dBi - 85mm
- ZYUE-WX-2400D	2.3-2.7 GHz, 50W, SMA male, 2.1 dBi - 100mm
- ZYUE-WX-2400F	2.4-2.5 GHz, 50W, SMA male, 2.1 dBi, right-angle pivot mount - 220mm
- ZYUE-WX-2400F-RPSMA	2.4-2.5 GHz, 50W, RPSMA male, 2.1 dBi, right-angle pivot mount - 100mm

Low Profile

- GCRFA	LTE + 4G/3G + L1 GPS + Wi-Fi 2.4 GHz & 5.8 GHz, 3 x 3m cable, 4dBic - 100mm dia.
- ZAW-WiFi-4S	2.4-2.5 GHz, 10W, Fakra type N, 3 metre cable, 0 dBi - 64.5mm dia.
- ZCG-EEH-201	Dualband WiFi/WLAN 2.4-2.485 GHz & 5.15-5.85 GHz, 5W, 3 metre cable, no termination, 4.1 dBi - 80mm
- ZRPM	915 MHz & 2.4 GHz, 10W, SMA male or specify, specify cable length, 3 dBd, specify reflector colour - 116mm

M.I.M.O. Panel

- ZCG-MIMO-6	Dualband WiFi/WLAN 2.4 GHz & 5.8 GHz, 250W per port, 6 x N-type female, 7 dBi - 550mm
- ZMP-1724-DP	2.3-2.7 GHz, V&H pol., 100W, 2 x RPSMA, 17 dBi each plane - 305mm
- ZMP-1924-DP	2.3-2.7 GHz, V&H pol., 50W, 2 x N-type female, 19 dBi each plane - 371mm
- ZMP-1924F-DP	2.3-2.7 GHz, V&H pol., 50W, 2 x RPSMA, 19 dBi each plane - 371mm
- ZMP-172458-90V2H2	2.4-2.5 GHz V&H pol. & 4.9-5.8GHz V&H pol., 20W, 4 x N-type female, 14-17 dBi - 380mm
- ZMP-172458-90VHXP	2.4-2.5 GHz V&H pol. & 4.9-5.8GHz X pol., 20W, 4 x N-type female, 14-17 dBi - 380mm
- ZMP-172458-90XPVH	2.4-2.5 GHz X pol & 4.9-5.8GHz V&H pol. 20W, 4 x N-type female, 14-17 dBi - 380mm
- ZMP-172458-90XXP	2.4-2.5 GHz X pol. & 4.9-5.8GHz X pol., 20W, 4 x N-type female, 14-17 dBi - 380mm
- ZMP-202458-90XXP	2.4-2.5 GHz X pol. & 4.9-5.8 GHz X pol., 20W, 4 x N-type female, 17-20 dBi - 700mm
- ZMP-202458-90V2H2	2.4-2.5 GHz V&H pol. & 4.9-5.8GHz V&H pol., 20W, 4 x N-type female, 17-20 dBi - 700mm
- ZMP-202458-90VHXP	2.4-2.5 GHz V&H pol. & 4.9-5.8GHz X pol., 20W, 4 x N-type female, 17-20 dBi - 700mm
- ZMP-202458-90XPVH	2.4-2.5 GHz X pol & 4.9-5.8GHz V&H pol. 20W, 4 x N-type female, 17-20 dBi - 700mm

Panel

- ZP-1324-120DP	2.4-2.7 GHz, V&H pol, 200W, 2 x N-type female, 13 dBi - 515mm
- ZP-1324-120XP	2.4-2.7 GHz, X pol, 200W, 2 x N-type female, 13 dBi - 515mm
- ZP-1524-180	2.4-2.7 GHz, Vert. pol, 50W, 2 x N-type female, 15 dBi - 515mm
- ZP-1624-120	2.4-2.7 GHz, Vert. pol, 50W, 2 x N-type female, 16 dBi - 890mm
- ZP-1624-120DP	2.4-2.7 GHz, V&H pol, 50W, 2 x N-type female, 16 dBi - 890mm
- ZP-1624-120XP	2.4-2.7 GHz, X pol, 50W, 2 x N-type female, 16 dBi - 890mm

Wireless Data

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ISM2.4 / WiFi / WLAN (continued)

Power Divider / Splitter

- PD-240N2	2-way power splitter/divider, 2.4-2.5 GHz, 250W, N-type female,
- PD-NN2-8002700	2-way power splitter/divider, 800-2700 MHz, 50W, 3 x N-type female, >20dB isolation - 96mm
- PD-6QMA-6982700	6-way power divider/splitter, 698-2700 MHz, 40W forward, 6 x QMA female, >20dB isolation - 152mm
- PS-2NSM-0727	All networks 4G LTE, 4G/3G & WiFi power splitter, 700-2700 MHz, 50W, 2 x N-female or SMA female, >20dB isol.
- PS-8NSM-0727	All networks 4G LTE, 4G/3G & WiFi power splitter, 700-2700 MHz, 50W, 8 x N-female or SMA female, >20dB isol.
- Z6DC-8002500	6dB directional coupler, 800-2500 MHz, 200W, N-type female, >20dB isolation - 86mm

2.6-3.6 GHz

Collinear

- Z2600-8	2.4-2.5 GHz, 25W, N-type female, 200mm cable, 11.3 dBi, white or black radome - 300mm
- SG3500	2.4-2.45 GHz, 25W, N-type female, 200mm cable, 17.8 dBi, white or black radome - 700mm
- SGL3500	5G 3.4-3.6 GHz, 20W, N-type female, 800mm cable, parallel spring base, 6 dBi - 500mm
- Z3500-10-NF	2.6-2.7 GHz, 25W, N-type female, 200mm cable, 11.3 dBi, white or black radome - 300mm

Radome Enclosed Yagi

- Y2650-9	2.6-2.7 GHz, 25W, N-type female, 200mm cable, 11.3 dBi, white or black radome - 300mm
- Y2650-18	2.6-2.7 GHz, 25W, N-type female, 200mm cable, 17.8 dBi, black or white radome - 700mm
- Y3000-9	3.4-3.6 GHz, 25W, N-type female, 200mm cable, 11.3 dBi, white or black radome - 300mm

Hand Portable

- ZYUE-WX-2400D	2.3-2.7 GHz, 50W, SMA male, 3.5 dBi - 100mm
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ISM 5.8 WiFi/WLAN - 5.8 GHz

Collinear

- Z5600	5.2-5.8 GHz, 10W, N-type female, 5.2 dBi - 250mm
- Z5800-8	5.7-5.9 GHz, 50W, N-type female, 8 dBi - 575mm
- Z5800-10	5.7-5.9 GHz, 50W, N-type female, 10 dBi - 675mm
- Z5800-12	5.15-5.85GHz, 100W, N-type female, 12 dBi - 560mm

Radome Enclosed Yagi

- CP5800-15	5.7-5.85 GHz, 100W, N-type female, 200mm cable, 14 dBi, white radome - 180mm
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Low Profile

- GCRFA	LTE + 4G/3G + L1 GPS + WiFi 2.4 GHz & 5.8 GHz, 3 x 3m cable, 4dBic - 100mm dia.
- ZCG-EEH-201	2.4-2.485 GHz & 5.15-5.85 GHz, 5W, 3 metre cable, 4dBi & 0.97dBi - 78.4mm
- ZCG-MIMO-6	Dualband WiFi/WLAN 2.4 GHz & 5.8 GHz, 250W per port, 6 x N-type female, 7 dBi - 550mm

Wireless Data

Contents page

Page 6 of 6

ISM 5.8 WiFi/WLAN - 5.8 GHz (continued)

M.I.M.O. Panel

- ZMP-1658-120DP	5.15-5.875 GHz, V&H pol., 50W per port, 2 x RPSMA, 16 dBi - 380mm
- ZMP-1958-120DP	5.15-5.875 GHz, V&H pol., 50W per port, 2 x RPSMA, 19 dBi - 740mm
- ZMP-2358-DP	5.15-5.88 GHz, V&H pol., 50W, 2 x N-type female, 23 dBi - 330mm
- ZMP-2358RF-DP	5.15-5.88 GHz, V&H pol., 50W, 2 x RPSMA, 23 dBi - 320mm
- ZMP-2558-DP	5.15-5.88 GHz, V&H pol., 50W, 2 x RPSMA, 25 dBi - 420mm
- ZMP-2558C-DP	5.15-5.85 GHz, V&H pol. 50W, 2 x N-type female, 25 dBi - 371mm
- ZMP-2558CF-DP	5.15-5.85 GHz, V&H pol. 50W, 2 x RPSMA, 25 dBi - 371mm
- ZMP-172458-90XXP	2.4-2.5 GHz X pol. & 4.9-5.8GHz X pol., 20W, 4 x N-type female, 14-17 dBi - 380mm
- ZMP-172458-90V2H2	2.4-2.5 GHz V&H pol. & 4.9-5.8GHz V&H pol., 20W, 4 x N-type female, 14-17 dBi - 380mm
- ZMP-172458-90VHXP	2.4-2.5 GHz V&H pol. & 4.9-5.8GHz X pol., 20W, 4 x N-type female, 14-17 dBi - 380mm
- ZMP-172458-90XPVH	2.4-2.5 GHz X pol & 4.9-5.8GHz V&H pol. 20W, 4 x N-type female, 14-17 dBi - 380mm
- ZMP-202458-90XXP	2.4-2.5 GHz X pol. & 4.9-5.8 GHz X pol., 20W, 4 x N-type female, 17-20 dBi - 700mm
- ZMP-202458-90V2H2	2.4-2.5 GHz V&H pol. & 4.9-5.8GHz V&H pol., 20W, 4 x N-type female, 17-20 dBi - 700mm
- ZMP-202458-90VHXP	2.4-2.5 GHz V&H pol. & 4.9-5.8GHz X pol., 20W, 4 x N-type female, 17-20 dBi - 700mm
- ZMP-202458-90XPVH	2.4-2.5 GHz X pol & 4.9-5.8GHz V&H pol. 20W, 4 x N-type female, 17-20 dBi - 700mm
- ZMD-4958-DP	4.95-5.85 GHz, V&H pol., 50W per port, 2 x N-type female, 30 dBi - 600mm

Panel

- ZP-1658-104	5.1-5.8325 GHz, vertical pol., 10W, N-type female, 16 dBi - 142mm
- ZP-1958-103	5.1-5.8325 GHz, vertical pol., 10W, N-type female, 19 dBi - 236mm
- ZP-1958-101	5.1-5.8325 GHz, vertical pol., 5W, N-type female, 23 dBi - 320mm

Whip

- WH5800-2-R	5.8 GHz, 50W, SMA male, 2.5 dBi - 73mm
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Installation Accessories - Cable ties and tape

How to order

Terms & conditions of sale

Contact us

ZN1-400-N Series

Lightweight flexible whip with external cable
UHF 360-470 MHz

The ZN1-400-N series are UHF 360-470 MHz flexible half-wave whip antennas, suitable for fixed position or vehicle mounted UHF or ISM433 applications. The ZN1-400-N comes fitted with a N-type female connector, other terminations are available.

Mounting hardware, adaptors, connectors and other installation accessories are all available separately.

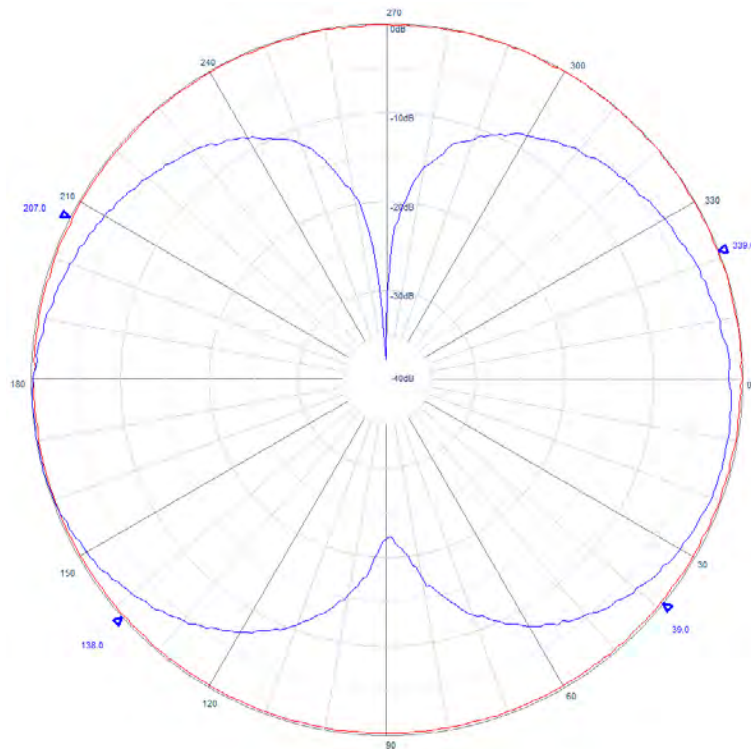
	ZN1-400-N	ZN1-400-N-100*
Construction	Black PVC flexible radome, anodised aluminium mount section, external cable assembly and termination.	
Frequency range	360-470 MHz - UHF and ISM433 compatible	
Bandwidth	Specify 15 MHz	
VSWR	<1.5:1 across specified frequency	
Tuning	Factory	
Gain	2.1 dBi	
Maximum power	100 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omnidirectional	
Cable	4 metres RG58 A/U bottom exit from handle	100mm RG58 A/U bottom exit from handle
Connector	N-type female as standard, or specify requirements	
Height	735mm	
Weight	400grams	350grams
Mount section	300mm x 20mmØ - anodised aluminium	
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS Side/wall mounting: 1 x NSM-B20M	
Mounting position recommended	Mount as high on your vehicle, structure or tower as possible ensuring no obstructions	



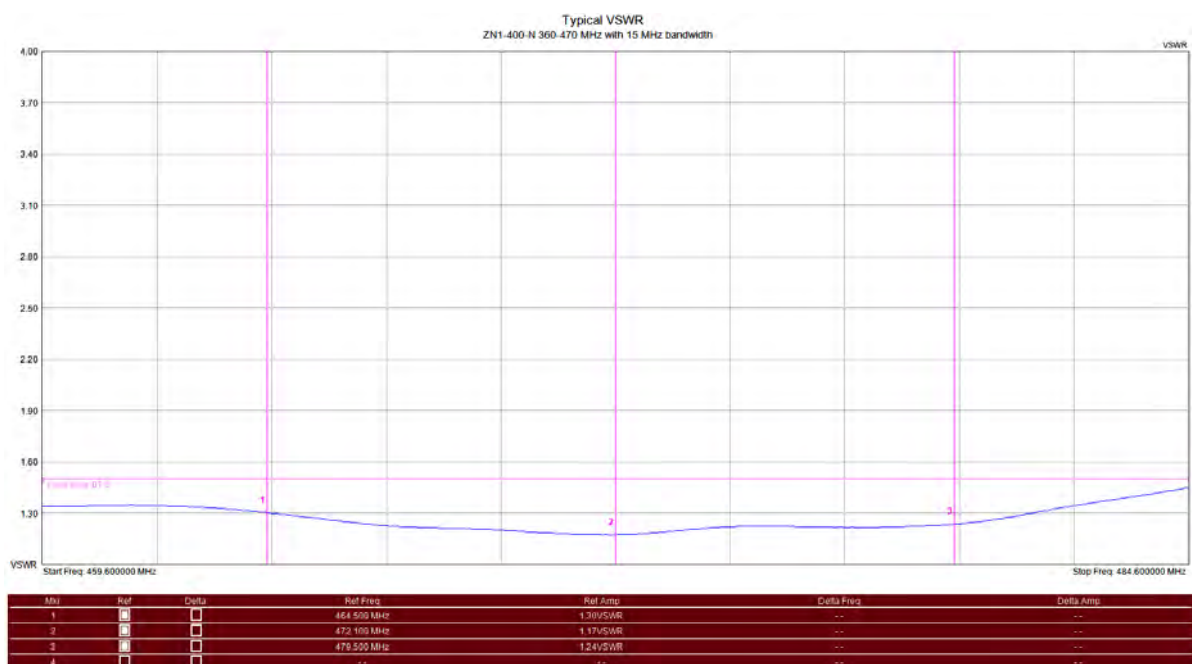
ZN1-400-N Series

Lightweight flexible whip with external cable

UHF 360-470 MHz











Example radiation pattern






Typical VSWR - scaled with 15MHz bandwidth

ZN1-400-N Series

Lightweight flexible whip with external cable
UHF 360-470 MHz

 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires 2 x EB1-SS or 1 x UB2-SS for antenna mounting</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires 2 x EB1-SS or 1 x UB2-SS for antenna mounting</p>
 <p>SFB900 - Galvanised steel straight extension brackets - 900mm or specify length requirements</p> <p>Requires 2 x EB1-SS or 1 x UB2-SS for antenna mounting</p>	 <p>EB1-SS - requires 2 304 stainless steel parallel clamp</p> <p>Boom: 20-40mm capability Mount pole: 25-45mm capability</p>
 <p>UB3-SS 304 stainless steel parallel clamp</p> <p>Boom: 20-32mm capability Mount pole: 20-50mm capability</p>	 <p>RB8 - requires 2 Galvanised steel right-angle clamp</p> <p>Boom: 20-40mm capability Mount pole: 20-40mm capability</p>
 <p>UB2-SS 304 stainless steel right-angle clamp</p> <p>Boom: 20-50mm capability Mount pole: 20-50mm capability</p>	 <p>NSM-B20G Toughend nylon wall/side mount</p> <p>Boom: 20mm capability Mount hole required: 13mm</p>

Typical alternate connectors

 <p>P/N 7963-7 SMA male termination Suits CEL-Fi go device or telemetry device.</p> <p>Also available in right-angle configuration or alternate gender</p>	 <p>P/N 7976 FME female termination Suits mobile/telemetry devices</p> <p>Also available in right-angle configuration or alternate gender</p>
 <p>P/N 7933-2 N-type male termination Suits mobile/telemetry devices</p> <p>Also available in right-angle configuration or alternate gender</p>	



LPY400SS

Stainless steel log periodic antenna

UHF 300-650 MHz



The LPY400SS log periodic antenna provides exceptionally broad bandwidth coverage across the 350-650MHz frequency range suitable for ISM433 applications.

Coaxial feeder cable, connectors and other installation accessories are all available separately.

Construction	Fully-welded 304 grade stainless steel boom and fixed front elements, detachable rear elements, mounting hardware and external cable
Frequency range	350-650 MHz - UHF and ISM433 compatible Suits CN470-510
Bandwidth	Full frequency range stated - 300 MHz
VSWR	<2:1
Tuning	Factory
Gain	8.3 dBi
Maximum power	50 Watts
Impedance - nominal	50 Ohms
Polarisation	Mount horizontal or vertical as required
H Plane	98° - depending on frequency
E Plane	59° - depending on frequency
Front-to-back ratio	24dB
DC grounding	Yes
Connector	N-type female jack fitted to 200mm RG58A/U stranded
Boom length	744mm
Longest element	429mm
Weight	3.5kg
Projected area	0.051m ²
Wind load at 160kph	6.151kg, 0.060kN
Mounting hardware supplied	Welded angle plate clamp and 50mm diameter stainless steel U-bolt
Installation tools required	13mm or 1/2" spanner for U-bolt securing



Detachable rear elements for reduction in courier costs and storage. Must be tightened using hole and jimmy bar supplied.



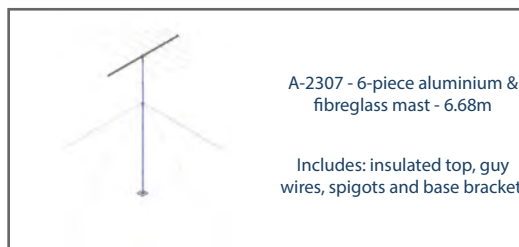
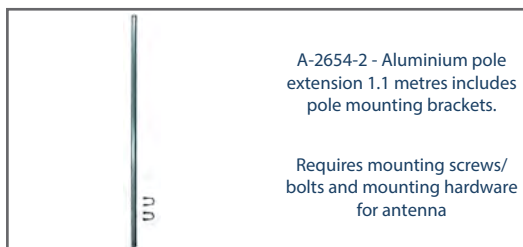
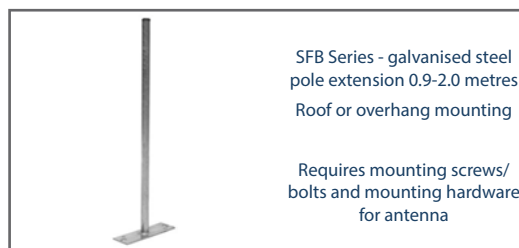
Cable exit from bottom boom and mounting bracket welded onto rear of antenna

LPY400SS

Stainless steel log periodic antenna

UHF 300-650 MHz

Suitable mounting hardware



Suitable feeder coaxial cable and connectors



M99N & M99SMA Series

Connector base terminated flexible stubby whip

UHF/IoT/ISM 433 MHz



The M99N-433 & M99SMA-433 series of 'stubby' whips come standard terminated with a N-type male connector or SMA male as the base. The flexible design of this series is most useful in circumstances where reduced height and flexible construction is essential. Suitable for ISM applications within the 433 MHz range.

Mounting hardware, adaptors, water proofing and other installation accessories are all available separately.

	M99N-433	M99SMA-433
Construction	Black heatshrunk flexible whip and chrome termination	
Frequency range	433 MHz - UHF, IoT & ISM compatible	
VSWR	<1.5:1 across tuned bandwidth	
Tuning	Factory	
Gain	2.1 dBi	
Impedance - nominal	50 Ohms	
Maximum power	25 Watts	
Polarisation	Vertical	
H Plane	360° omnidirectional	
Height	200mm	
Weight	45grams	
Connector	N-type male as base	SMA male as base
Mounting	N-type male fits to any N-type female terminated device	SMA male fits to any SMA female terminated device
Mounting position recommended	Mount as high on your device or vehicle as possible. If on hand-held device, ensure minimal metallic obstruction impeding signal.	



M99N-433



M99SMA-433





ZN3-434-04-TPM

"Quick-fit" highly flexible detachable whip or replacement top

UHF/ IoT/ ISM/ Radio navigation 434 MHz



The ZN3-434-04-TPM is the perfect antenna for use where UHF, IoT, ISM or Radio navigation at 434 MHz is required. The ZN3-434-04-TPM has the added benefit of being highly flexible and short, suitable for situations where the risk of damage or vandalism may occur.

Mounting accessories, adaptors and other installation accessories are all available separately.

Construction	Highly flexible black radome, black delrin mount ferrule and internal termination
Frequency range	434 MHz - UHF, IoT & ISM compatible
VSWR	<1.5:1
Tuning	Factory
Gain	2.1 dBi
Maximum power	100 Watts
Impedance	50 Ohms
Polarisation	Vertical
Connector	UHF male - PL259 inside mount ferrule
H Plane	360° omni-directional
Height	400mm
Weight	200grams
Mounting hardware order separate	Mount base: ZN Base Spring base: ZN3-SB-L or ZN3-SB-S
Mounting position recommended	Mount as high on your vehicle or structure as possible using the appropriate spring base, base with 16mm holed bracket or magnetic base

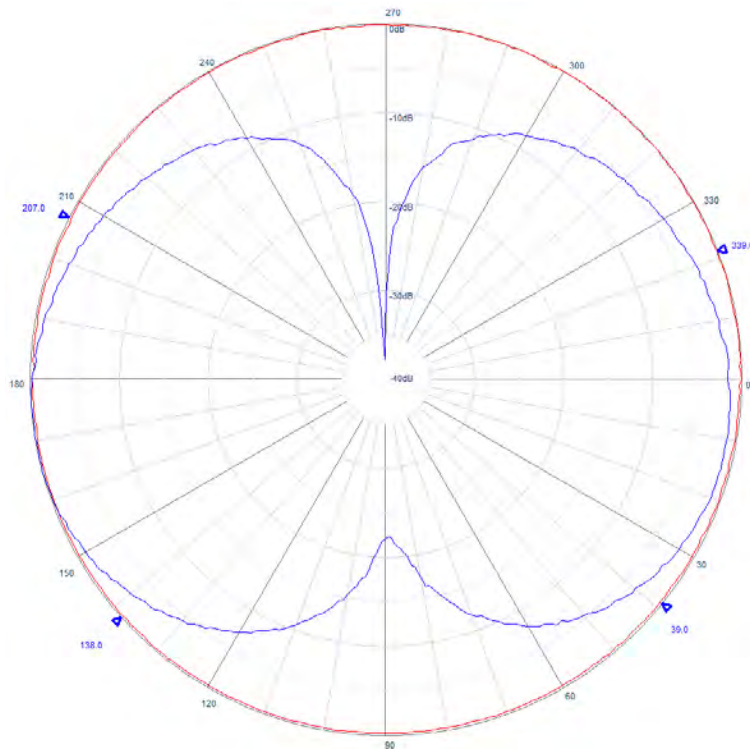


UHF Male embedded into mount ferrule

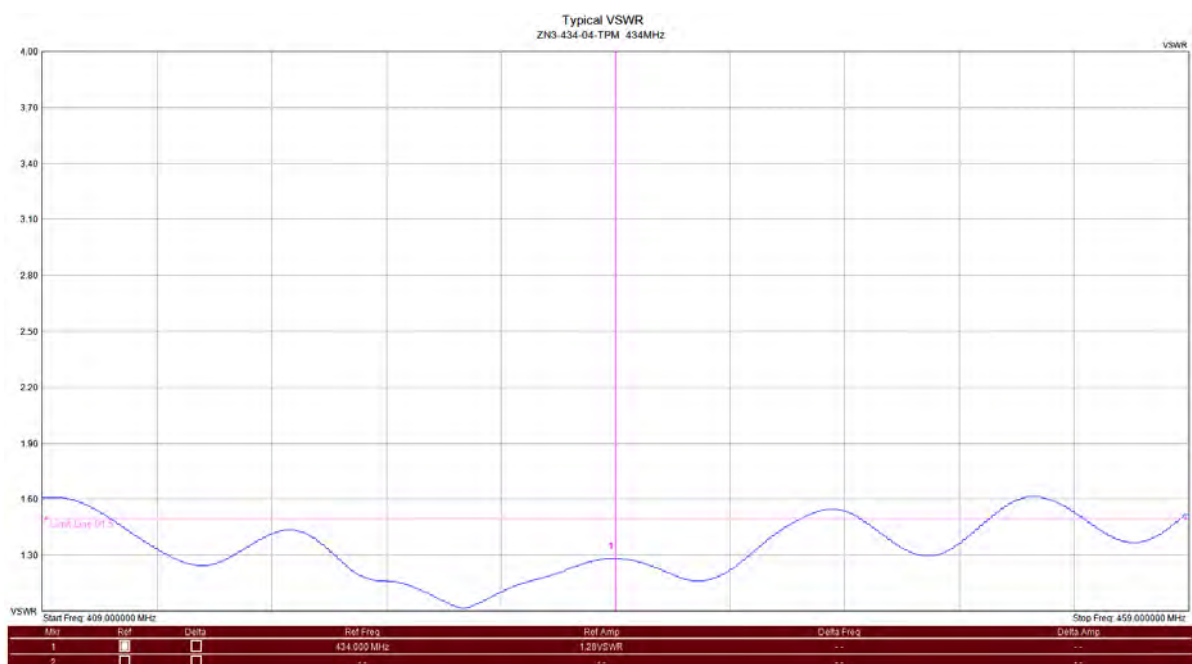


ZN3-434-04-TPM

"Quick-fit" highly flexible detachable whip or replacement top
UHF/ IoT/ ISM/ Radio navigation 434 MHz



Example radiation pattern






Typical VSWR



ZN3-434-04-TPM

"Quick-fit" highly flexible detachable whip or replacement top
UHF/ IoT/ ISM/ Radio navigation 434 MHz

Recommended installation accessories

 <p>ZN Base - UHF female topped cable base, no spring. Suits light-duty or fixed position mounting</p> <p>Requires 16mm mount hole SMA male terminated Requires 24mm spanner</p>	 <p>ZN3-SB-S - medium-duty 'barrel' spring base mount with 4.7m cable</p> <p>16mm mount hole Requires 21mm spanner</p>
 <p>ZN3-SB-L - heavy-duty 'barrel' spring base mount with 4.7m cable</p> <p>16mm mount hole Requires 21mm spanner</p>	

Mounting base mounting hardware

 <p>BBM-SS series - wrap around bull bar mount, up to 50-76mm diameter tube capacity</p> <p>16mm mount hole Requires 10mm spanner</p>	 <p>GM1 - 'L' fascia or wall mount bracket</p> <p>16mm mount hole</p>
 <p>A-6211 - 304 stainless steel 'L' fascia mount bracket</p> <p>16mm hole, 200mm offset Requires mounting screws/ bolts - not supplied</p>	



ZWGPS

Radio Navigation or Animal tracking highly flexible whip UHF/IoT/Radionavigation 433 MHz



The ZWGPS highly flexible animal tracking whip is specifically designed for mounting using the M5 eyelet located at the base of the whip.

The ZWGPS has been manufactured for use for animal tracking using the UHF/ Internet of Things (IoT) frequency 433 MHz.

Construction	Black heatshrunk flexible 316 stainless steel whip, black cap and M5 eyelet
Frequency range	433 MHz - UHF, IoT, ISM & Radio location compatible
Tuning	Factory
Gain	2.1 dBi
Maximum power	2 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
Dimensions	Length: 360mm Diameter: 3mm
Weight	3grams
Termination	M5 eyelet fitted as the base of the whip
Mounting	Suitable for mounting onto any M5 male threaded termination for use for animal tracking or IoT applications at 433MHz.



M5 eyelet mount suitable for mounting onto an animals collar or tracking device.



Y400C-R Round Boom Yagi

Set frequency round boom Yagi's

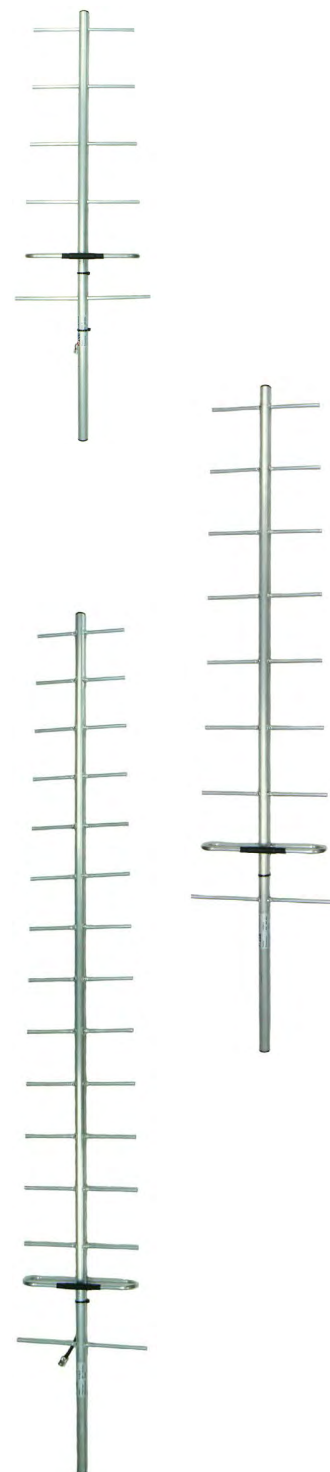
UHF 420-440 MHz



A round boom Yagi allows for flexible mounting on any plane with the ability to fix into an existing or new bracket.

ZCG's range of round boom Yagi's match or surpass all others on the market. Customisation available, contact ZCG for more information.

Order Code	Y406C-R	Y409C-R	Y415C-R
Construction	Fully-welded corrosion resistant aluminium boom and dipole		
	420-440 MHz - UHF and ISM433 compatible		
Tuning	Factory		
VSWR	<1.5:1 across fixed bandwidth		
Number of elements	6	9	15
Gain - nominal	9 dBd	11.5 dBd	14 dBd
Polarisation	Mount horizontal or vertical as required		
DC grounding	Yes		
Maximum power	150 Watts		
Impedance	50 Ohms		
H Plane at centre	50°	44°	37°
E Plane at centre	46°	36°	33°
Front-to-back ratio	>15 dB	>17 dB	
Connector and cable	N-type female fitted to 200mm RG59 cable tail		
Boom length	1.2 metres	1.7 metres	2.5 metres
Longest element	400mm		
Weight	0.6kg	0.9kg	1.1kg
Projected area	0.05m ²	0.08m ²	0.110m ²
Wind load at 160kph	6.1kg	8.1kg	12kg
Mounting hardware order separate	1 x RB8, 1 x RB8-L or 1 x A48-R		1 x RB8, 1 x RB8-L or 1 x A48-R + 1 x strut kit





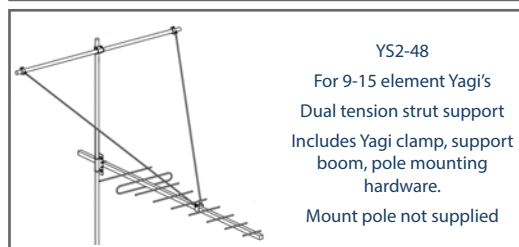
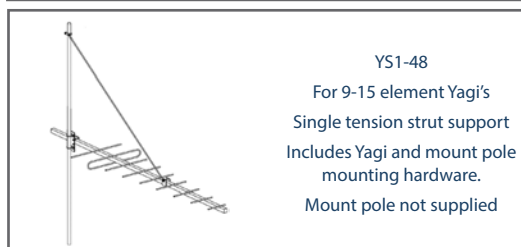
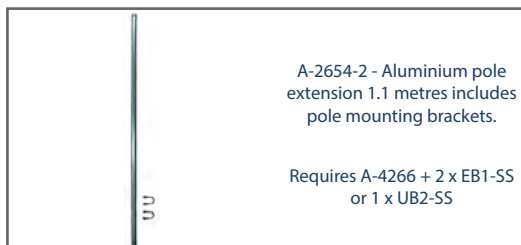
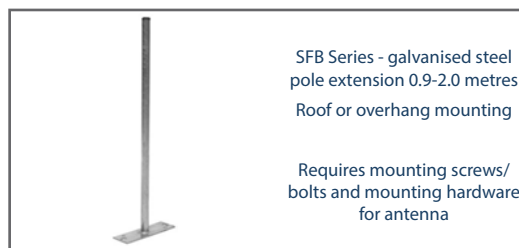
Y400C-R Round Boom Yagi

Set frequency round boom Yagi's

UHF 420-440 MHz



Suitable mounting hardware



Suitable feeder coaxial cable and connectors



Y404-RH

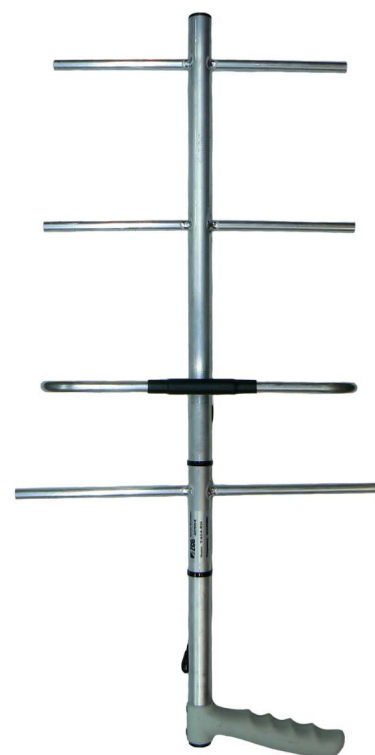
Aluminium portable hand-held Yagi

UHF 380-520 MHz

The Y404-RH UHF hand-held Yagi antennas are specifically designed and manufactured for portable, directional, hand-held UHF communications or animal tracking applications or any application within the 380-520 MHz range

Alternative connectors, adaptors and other installation accessories are all available separately.

Construction	Fully-welded corrosion resistant aluminium, round boom, dipole, coaxial cable and white PVC handle
Frequency range	380-520 MHz - UHF
Collapsible	No - fixed elements
Bandwidth	Specify and 20 MHz within band when ordering
Tuning	Factory
VSWR	<1.5:1 across specified 20 MHz bandwidth
Gain - nominal	7.5 dBd
Polarisation	Specify polarisation for mounting of handle can be held in either horizontal or vertical out in the field.
Maximum power	150 Watts
Impedance	50 Ohms
DC grounding	Yes
Connector	N-type female fitted as standard or specify requirements
Boom length	900mm
Longest element	400mm
Boom diameter	20mm
Weight	550grams
Mounting hardware	White thermoplastic handle
Mounting position recommended	When in use hold as far away from metallic objects, structures, trees and your body to achieve specified performance levels



Y404-RH

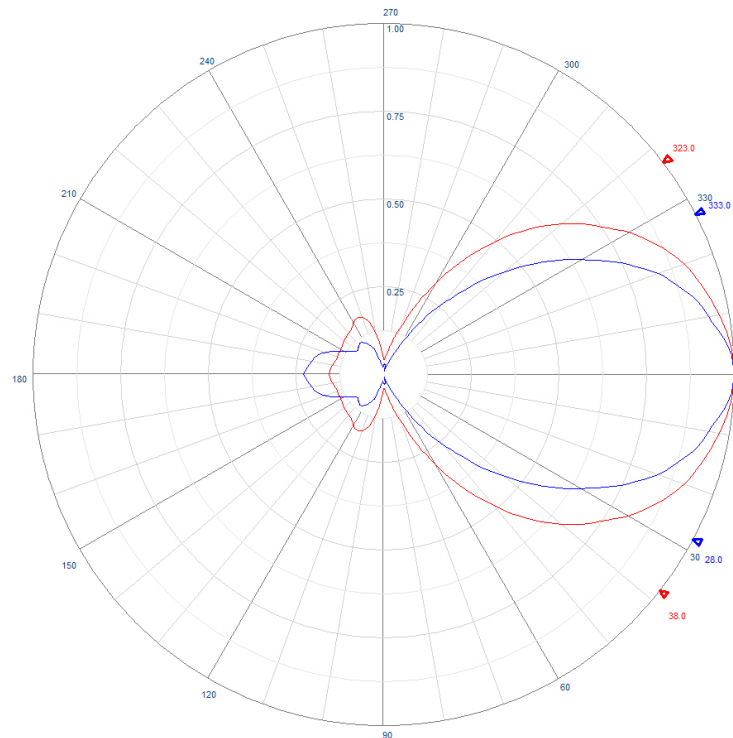


PVC handle on both models

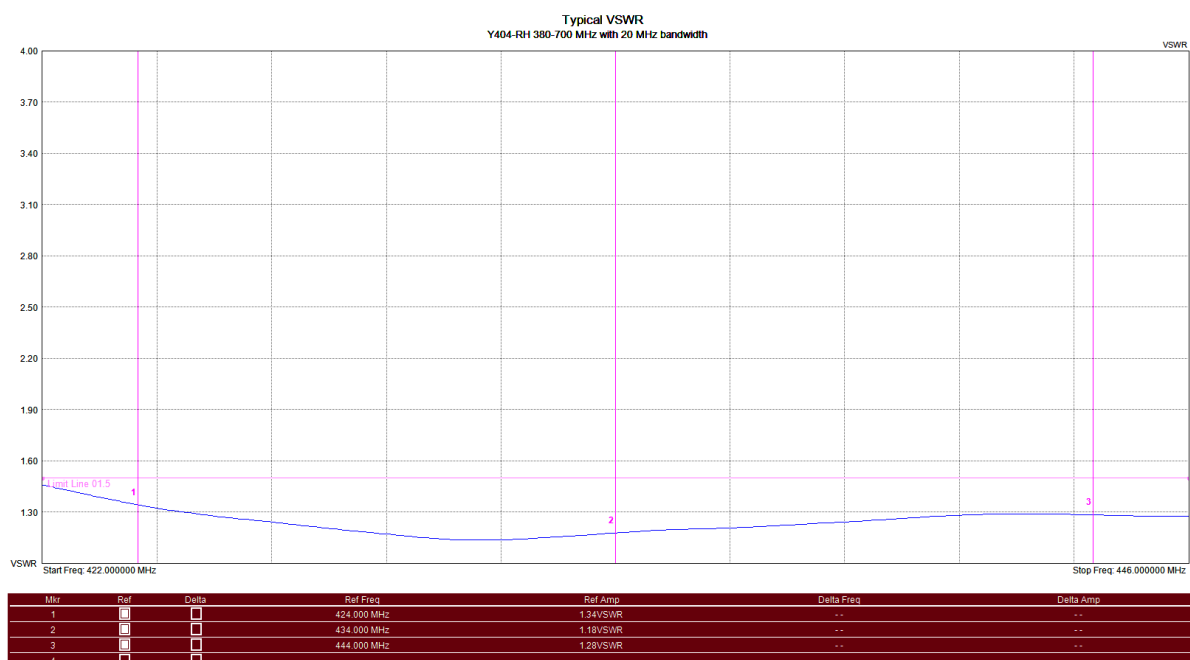
Y404-RH

Aluminium portable hand-held Yagi

UHF 380-520 MHz



Example radiation pattern - Y404-RH



Typical VSWR - Y404-RH



SG900-TPM series

Omni-directional wireless data collinear

M2M / IoT / ISM900 918-928 MHz



The SG900 series will significantly improve your wireless data transmit and receive capabilities for radio location, industrial, scientific or medical applications or is ideal for M2M, IoT & ISM900 applications.

Mounting hardware, adaptors, water-proofing and other installation accessories are all available separately.



	SG900-W-TPM	SG900-B-TPM
Radome colour	White	Black
Construction	Coloured fibreglass radome, aluminium ferrule and cap, external cable and termination	
Frequency range	918-928 MHz - UHF, M2M, IoT, ISM900 & LoRa compatible Suits AUS915-928, AS923, US902-928, AS920-923, AS923-925 and KR920-923	
Tuning	Factory	
VSWR	<1.6:1	
Gain	6.2 dBi	
Impedance - nominal	50 Ohms	
Polarisation	Vertical	
H Plane	360° omnidirectional	
Cable	5 metres RG58 low noise stranded, side exit from ferrule as standard or specify length requirements	
Connector	FME female jack fitted to cable - for ease of installation	
Height	800mm	
Weight	790grams	
Mounting hardware order separate	Bracket mounting: GM1, GM2, GM6 or A-6211 Mast mounting: 4266 with 2 x EB1-SS or 1 x UB3-SS Base mounting: BBKB-B or ATLM-CH/ATLM-B	
Mounting position recommended	Mount as high on your vehicle, structure, mast or tower as possible using the appropriate mounting bracket.	
Installation tools required	19mm or 3/8" spanner for nut securing	

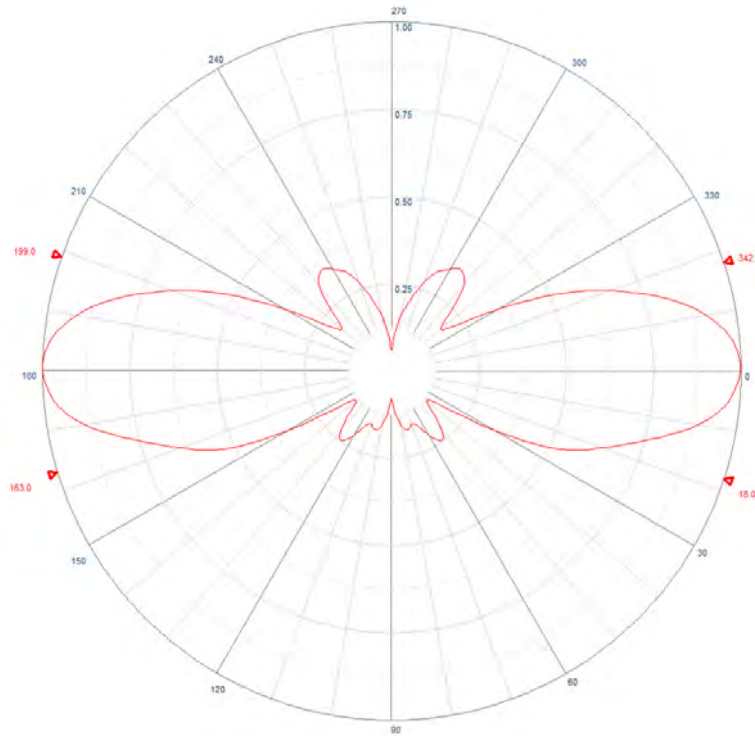


FME female fitted as standard or specify requirement

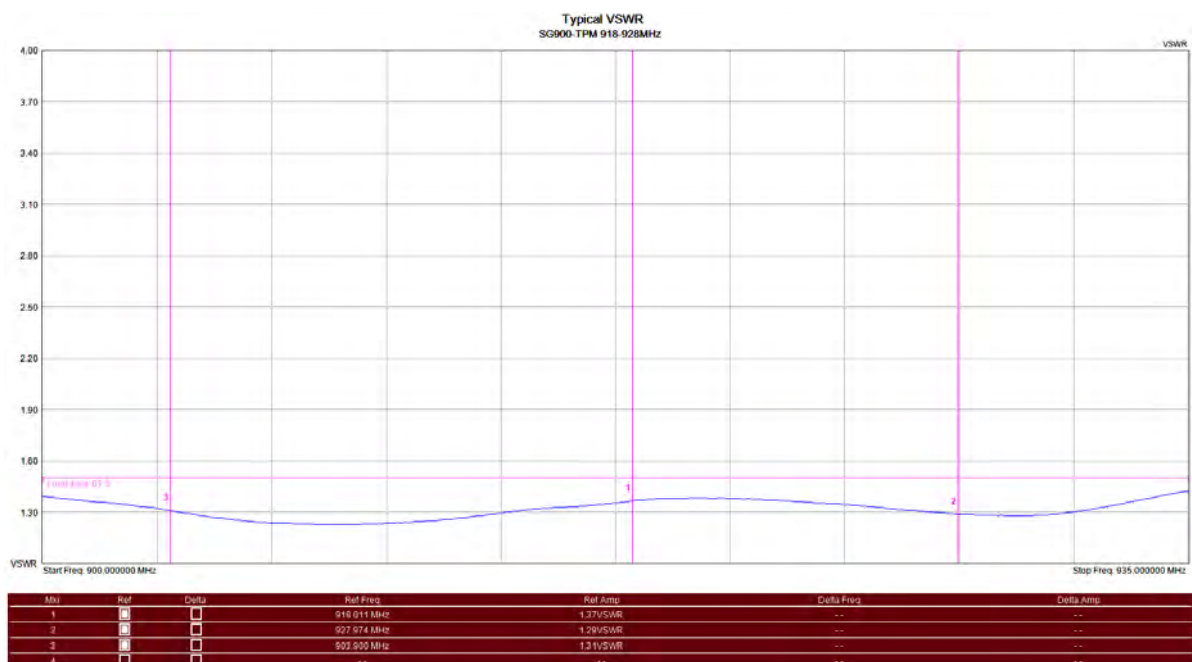
SG900-TPM series

Omni-directional wireless data collinear

M2M / IoT / ISM900 918-928 MHz



Example radiation pattern



Typical VSWR

SG900-TPM series

Omni-directional wireless data collinear

M2M / IoT / ISM900 918-928 MHz

Recommended installation accessories



Typical alternate Connectors





SGL900



Light-duty wireless data, telemetry or ISM collinear with parallel spring

UHF / IoT / ISM 918-928 MHz

The SGL900 light to medium-duty wireless data, telemetry or ISM (Industrial, Scientific and Medical) offers effective performance within our robust tried and tested ZCG quality construction. The SGL900 performance matches that of our medium to heavy-duty SG900 series.

The parallel spring base is suitable for light to medium-duty vehicle installations or fixed position mounting utilising the appropriate mounting hardware.

Mounting hardware, adaptors, connectors and other installation accessories are all available separately.

Construction	Black parallel fibreglass radome, aluminium mount ferrule and cap, stainless steel parallel spring base, external coaxial cable and termination
Frequency range	918-928 MHz - UHF, M2M, IoT, ISM900 & LoRa compatible Suits AUS915-928, AS923, US902-928, AS920-923, AS923-925 and KR920-923
Bandwidth	Full frequency range stated - 10 MHz
VSWR	<1.6:1
Tuning	Factory
Gain	6.2 dBi
Maximum power	30 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
Cable	5 metres RG58 low loss bottom exit from spring base or specify length requirements
Connector	SMA male fitted as standard or specify requirements
Height	800mm
Weight	650grams
Mounting hardware order separate	Clamp Bracket: BBM-SS, BBML-SS, BBMXL-SS, BBKB-B, MRM-SS or ATLM series Bracket: GM1, GM2, GM6 or A-6211
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 16mm hole or appropriate bracket with a 16mm hole
Installation tools required	22mm spanner for nut securing



Light-duty parallel spring base



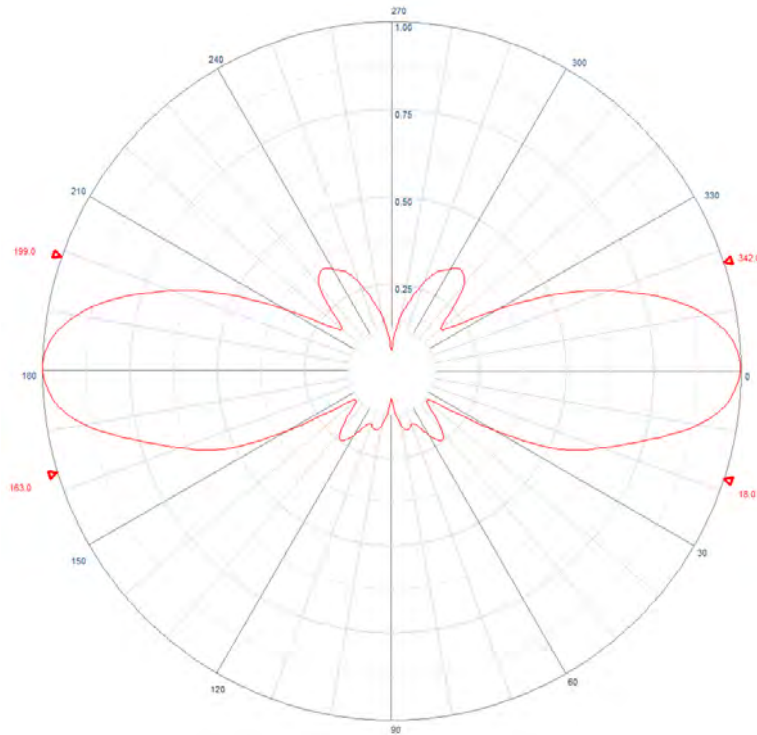
SMA male fitted as standard

SGL900

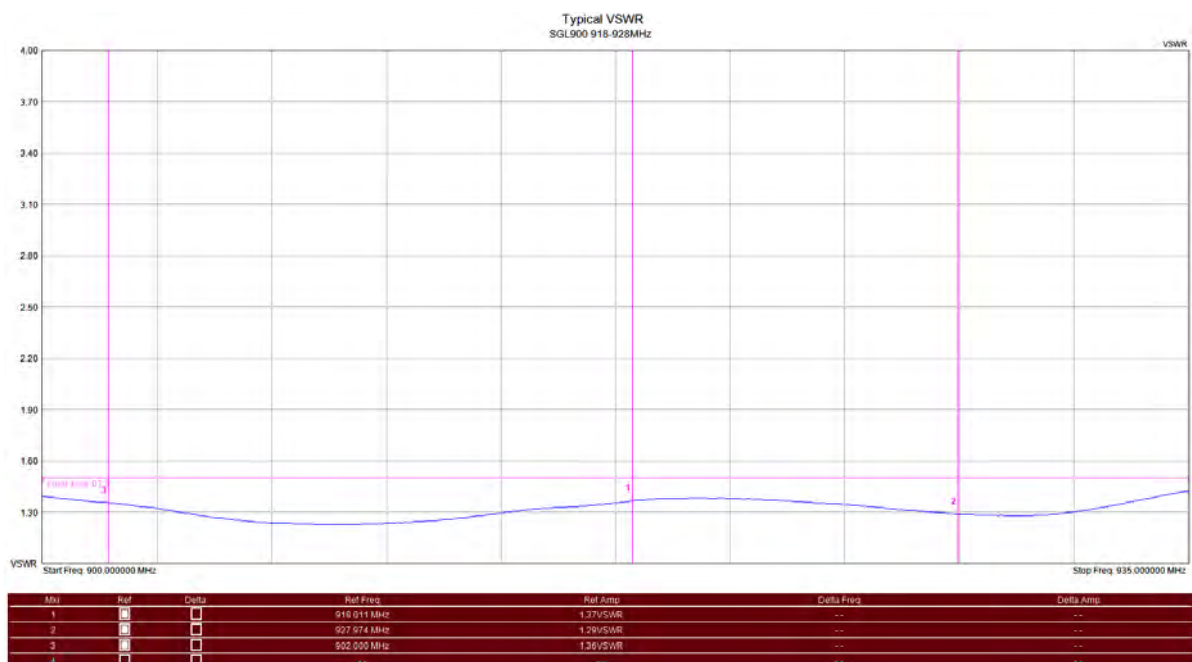


Light-duty wireless data, telemetry or ISM collinear with parallel spring

UHF / IoT / ISM 918-928 MHz



Example radiation pattern



Typical VSWR

SGL900

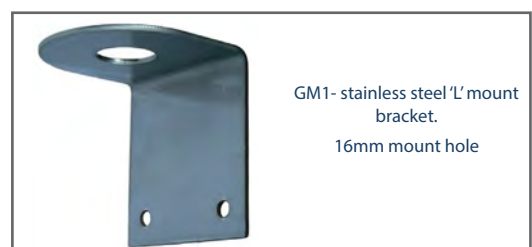


Light-duty wireless data, telemetry or ISM collinear with parallel spring

UHF / IoT / ISM 918-928 MHz



Recommended installation accessories



Typical alternate Connectors





CFD890

Omni-directional spread spectrum dipole M2M/IoT & ISM900 853-929 MHz



The CFD890 spread spectrum dipole is specifically designed for wireless data link and N.F.C. (Near Field Communications) within the UHF 853-929 MHz range. No metal ground plane is necessary for the antenna to operate effectively.

Mounting hardware, coaxial feeder cable, adaptors and other installation accessories are all available separately.

Construction	Black fibreglass radome, aluminium mount ferrule, external cable assembly and termination
Frequency range	853-929 MHz - UHF, M2M, IoT, ISM900 & LoRa compatible Suits AUS915-928, AS923, EU863-870 US902-928, AS920-923, AS923-925, KR920-923 & IN865-867
Bandwidth	Full frequency range stated - 76 MHz
VSWR	<1.6:1
Tuning	Factory
Gain	2.1 dBi
Impedance - nominal	50 Ohms
Maximum power	20 Watts
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omni-directional
Cable	3 metres MIL-SPEC RG58 low loss solid core - side exit ferrule
Connector	SMA male fitted to cable - or specify another cable
Height	400mm
Weight	350grams
Mounting hardware order separate	Any 13mm hole or bracket with 13mm hole Bracket: GM1, GM2, GM5 or A-6211 Mount: BBM-SS, BBML-SS, BBMXL-SS, MRM-SS or BBKB-B Spring base: A-1269 'barrel' or A-1270 'parallel'
Mounting position recommended	Mount as high on your structure, mast or tower as possible using an appropriate mounting bracket
Installation tools required	19mm or 3/4" spanner for nut securing

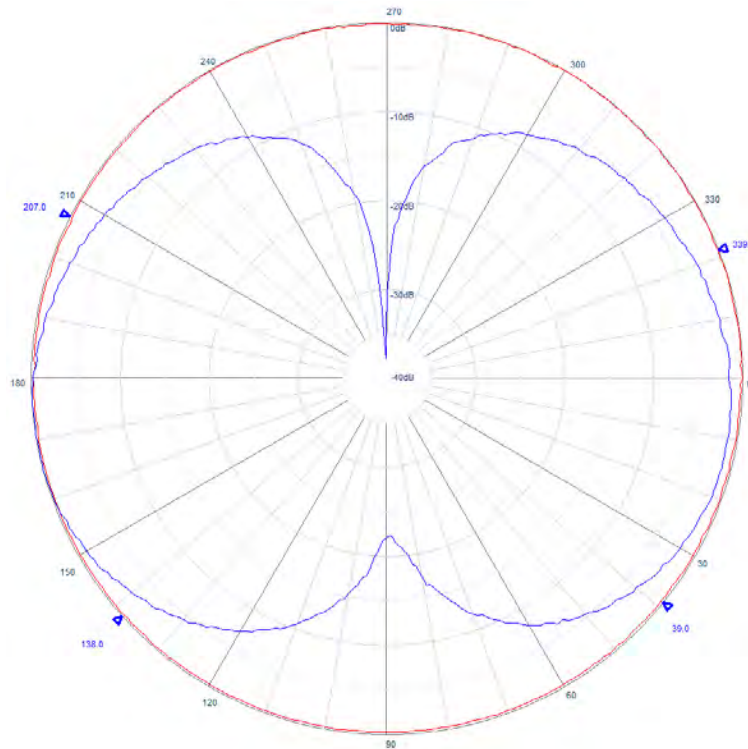


SMA male fitted to cable as standard or specify requirements

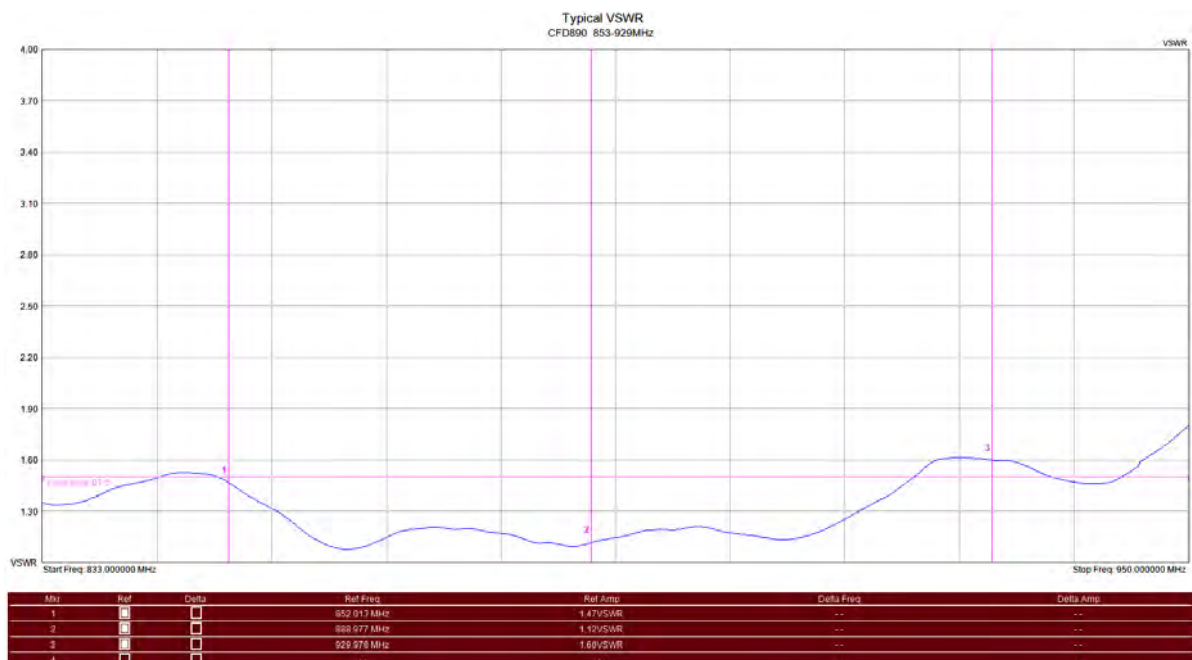


CFD890

Omni-directional spread spectrum dipole
M2M/IoT & ISM900 853-929 MHz



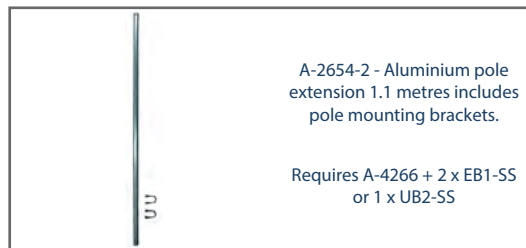
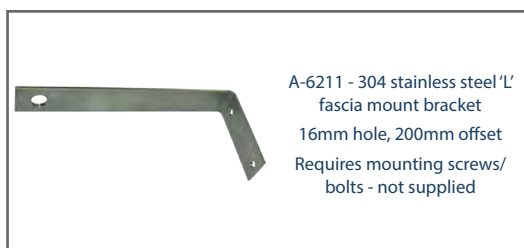
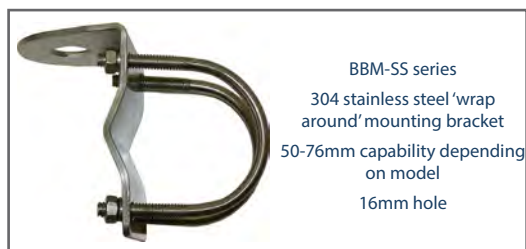
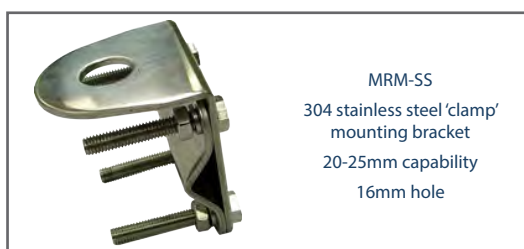
Example polar radiation pattern



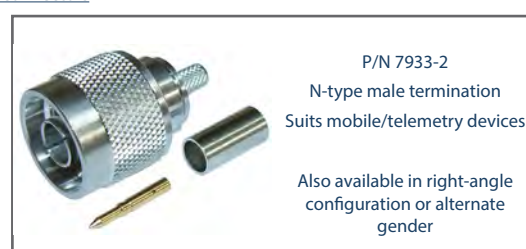
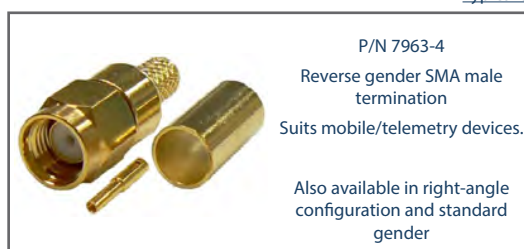
Typical VSWR

CFD890

Omni-directional spread spectrum dipole M2M/IoT & ISM900 853-929 MHz



Typical alternate connectors





DLD860

Low capacity, outside broadcast, cordless telephone stud mount dipole
UHF / IoT & M2M 845-875 MHz



The DLD860 is a stud mount dipole specifically for low capacity wireless data link, outside broadcast 845-852 MHz, cordless telephone 857-865 MHz or land mobile services within the 845-875 MHz frequency range.

Mounting hardware, coaxial feeder cable, adaptors and other installation accessories are all available separately.



Construction	Black PVC radome, black delrin ferrule, stainless steel securing nut, external coaxial cable and termination
Frequency range	845-875 MHz - UHF, IoT and LoRa compatible Suits EU863-870 & IN865-867
Bandwidth	Full frequency range stated - 30 MHz
VSWR	<2:1
Tuning	Factory
Gain	2.1 dBi
Impedance - nominal	50 Ohms
Maximum power	20 Watts
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional
Cable	1.8 metres RG316 - bottom exit from ferrule
Connector	Gold plated SMA male fitted as standard - or specify requirements
Height	280mm
Weight	50grams
Mounting hardware order separate	Bracket: GM1, GM2, GM6, A-6211, A-4115 or A-4115-2 Hole: 12.7mm diameter
Mounting position recommended	Mount as high on your structure, pole or mast as possible using the a hole or appropriate mounting hardware with a minimum 12.7mm hole. Do not mount near any vertical metallic objects.
Installation tools required	19mm or 3/8" spanner for nut securing

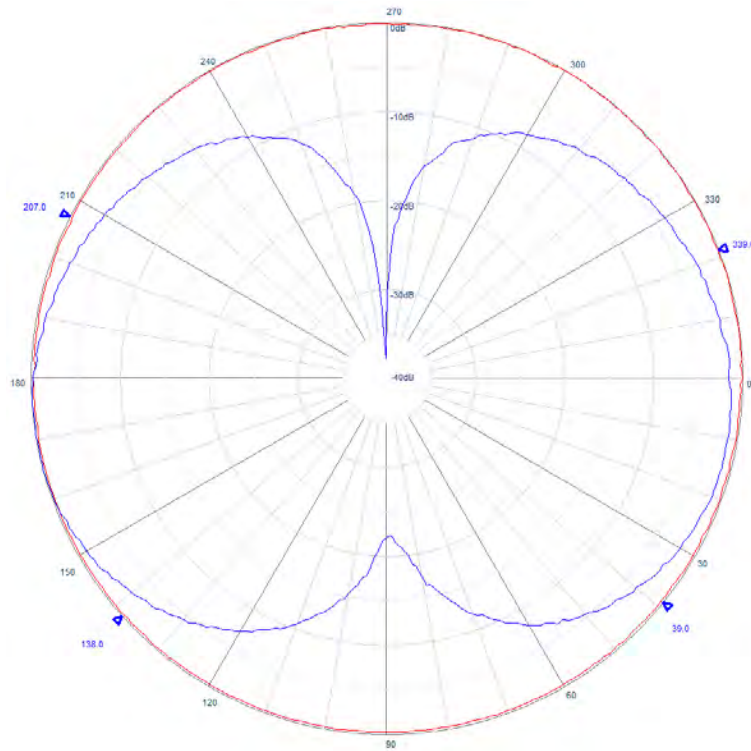


SMA male fitted to cable as standard or specify requirements

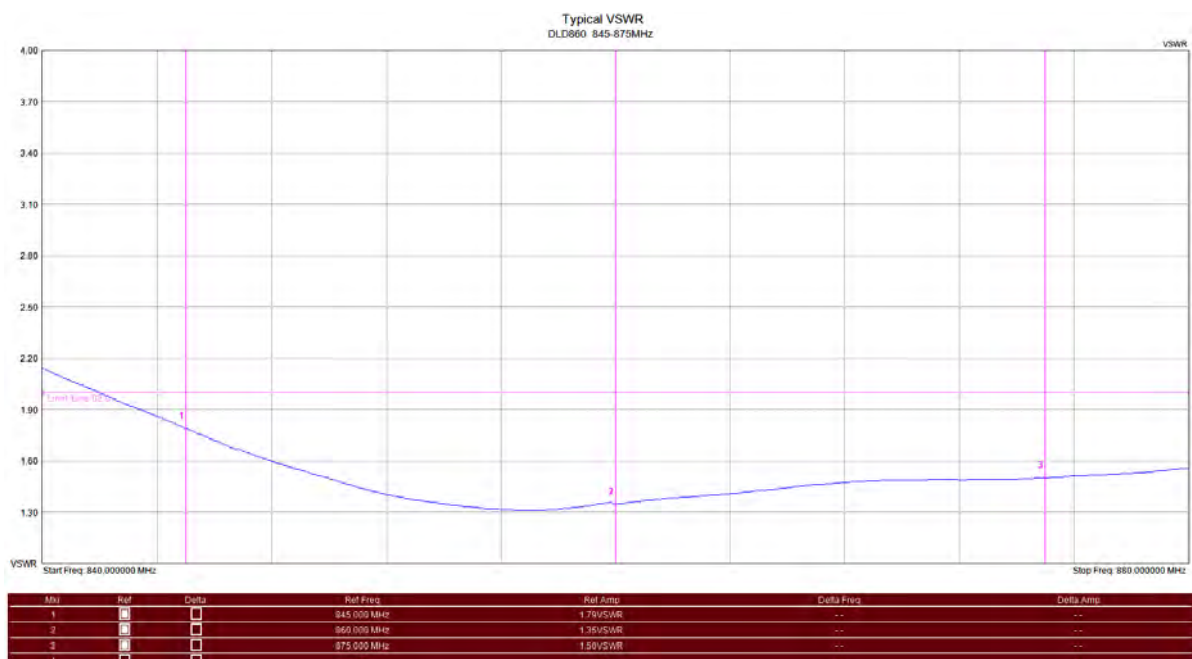
DLD860



Low capacity, outside broadcast, cordless telephone stud mount dipole
UHF / IoT & M2M 845-875 MHz



Example radiation pattern



Typical VSWR

DLD860

Low capacity, outside broadcast, cordless telephone stud mount dipole
UHF / IoT & M2M 845-875 MHz

 <p>GM1 - 304 stainless steel 'L' fascia mount bracket 16mm hole Requires mounting screws/ bolts - not supplied</p>	 <p>GM2 - 304 stainless steel 'Z' fascia mount bracket 16mm hole Requires mounting screws/ bolts - not supplied</p>
 <p>MRM-SS 304 stainless steel 'clamp' mounting bracket 20-25mm capability 16mm hole</p>	 <p>GM6 - 304 stainless steel 'L' fascia mount bracket 16mm slot Requires mounting screws/ bolts - not supplied</p>
 <p>MRM-SS 304 stainless steel 'clamp' mounting bracket 20-25mm capability 16mm hole</p>	 <p>BBM-SS series 304 stainless steel 'wrap around' mounting bracket 50-76mm capability depending on model 16mm hole</p>
 <p>A-4115-2 - aluminium 'L' fascia mount bracket 12.7mm hole, 35mm offset Requires mounting screws/ bolts - not supplied</p>	 <p>A-6211 - 304 stainless steel 'L' fascia mount bracket 16mm hole, 200mm offset Requires mounting screws/ bolts - not supplied</p>
 <p>MGB Powdercoated black internal magnet mount base 16mm hole 105mm diameter Can be fitted during manufacture includes scratch reduction pad on base</p>	

Typical alternate connectors

 <p>P/N 7963-10 Reverse gender SMA male crimp termination Also available in standard gender and opposite gender</p>	 <p>P/N 8278 N-type male termination Suits mobile/telemetry devices Also available in alternate gender</p>
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DLD900 Series

Stud mount Wireless data dipole

Radio Location/M2M/IoT/UHF 900-930 MHz



The DLD900 series of stud mount dipoles are ideal for wireless data link, M2M, IoT or Radio Location applications within the UHF 900-930 MHz range.

Mounting hardware, coaxial feeder cable, adaptors and other installation accessories are all available separately.

	DLD900	DLD900-2
Construction	Black PVC radome, black delrin mount ferrule, external cable and termination	
Frequency range	900-930 MHz - UHF, ISM, IoT, M2M & LoRa compatible Suits AU915-928, AS923, US902-928, AS920-923, AS923-925 & KR920-923	
Bandwidth	Full frequency range stated - 30 MHz	
VSWR	<2:1	
Tuning	Factory	
Gain	2.1 dBi	
Impedance - nominal	50 Ohms	
Maximum power	20 Watts	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable	900mm RG316 - bottom exit from ferrule	2.0m RG316 - bottom exit from ferrule
Connector	SMA male fitted as standard - or specify requirements	
Height	230mm	
Weight	50grams	90grams
Mounting hardware order separate	Bracket: GM1, GM2, GM6, A-6211, A-4115 or A-4115-2 Hole: 12.7mm diameter	
Mounting position recommended	Mount as high on your structure, pole or mast as possible using the a hole or appropriate mounting hardware with a minimum 12.7mm hole. Do not mount near any vertical metallic objects.	
Installation tools required	19mm or 3/8" spanner for nut securing	



Black delrin mount ferrule with securing nut and external coaxial cable.

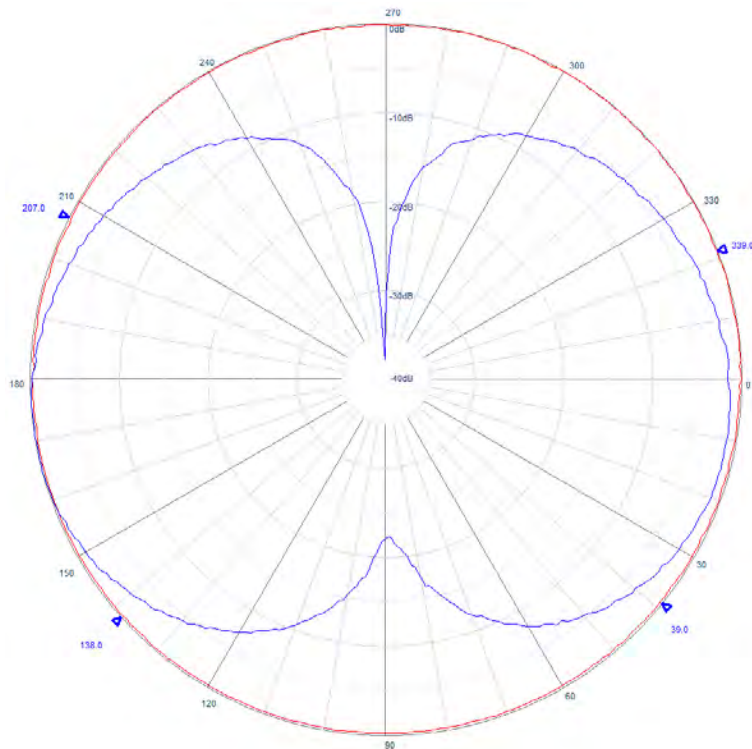


SMA male plug connector fitted to RG316 coaxial cable

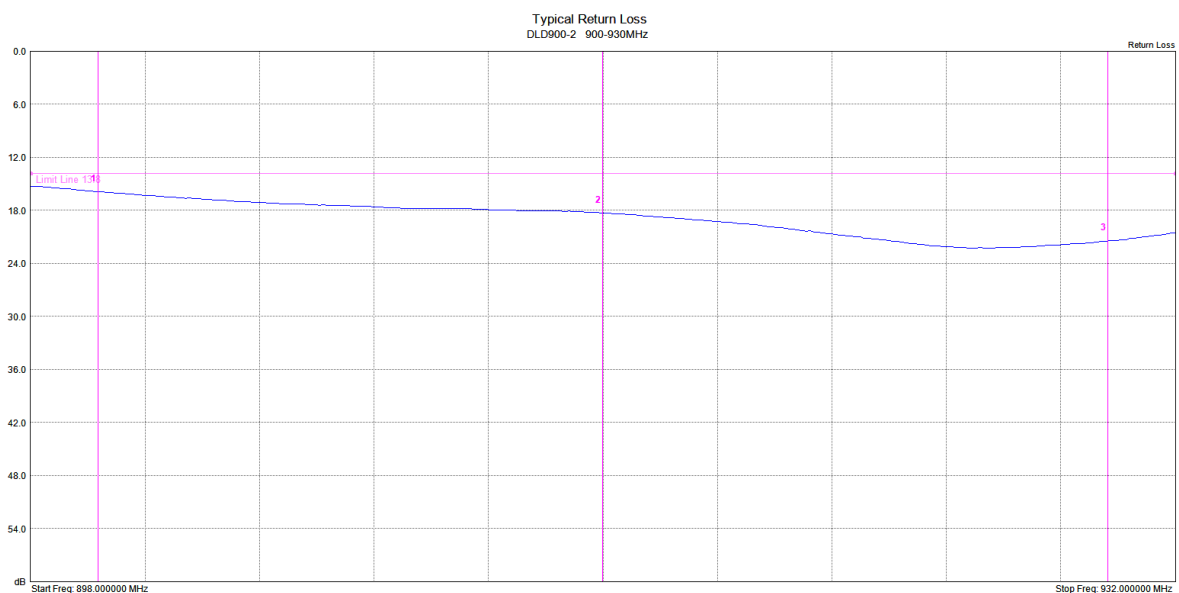
DLD900 Series

Stud mount Wireless data dipole

Radio Location/M2M/IoT/UHF 900-930 MHz



Example radiation pattern



Mix	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	900.000 MHz	15.89 dB	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	915.000 MHz	18.31 dB	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	930.000 MHz	21.44 dB	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical Return Loss

DLD900 Series

Stud mount Wireless data dipole

Radio Location/M2M/IoT/UHF 900-930 MHz

 <p>GM1 - 304 stainless steel 'L' fascia mount bracket 16mm hole Requires mounting screws/bolts - not supplied</p>	 <p>GM2 - 304 stainless steel 'Z' fascia mount bracket 16mm hole Requires mounting screws/bolts - not supplied</p>
 <p>MRM-SS 304 stainless steel 'clamp' mounting bracket 20-25mm capability 16mm hole</p>	 <p>GM6 - 304 stainless steel 'L' fascia mount bracket 16mm slot Requires mounting screws/bolts - not supplied</p>
 <p>MRM-SS 304 stainless steel 'clamp' mounting bracket 20-25mm capability 16mm hole</p>	 <p>BBM-SS series 304 stainless steel 'wrap around' mounting bracket 50-76mm capability depending on model 16mm hole</p>
 <p>A-4115-2 - aluminium 'L' fascia mount bracket 12.7mm hole, 35mm offset Requires mounting screws/bolts - not supplied</p>	 <p>A-6211 - 304 stainless steel 'L' fascia mount bracket 16mm hole, 200mm offset Requires mounting screws/bolts - not supplied</p>
 <p>MGB Powdercoated black internal magnet mount base 16mm hole 105mm diameter Can be fitted during manufacture includes scratch reduction pad on base</p>	

Typical alternate connectors

 <p>P/N 7963-10 Reverse gender SMA male crimp termination Also available in standard gender and opposite gender</p>	 <p>P/N 8278 N-type male termination Suits mobile/telemetry devices Also available in alternate gender</p>
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CMG920-6

ISM band omni-directional mast mount collinear

Industrial, Scientific and Medical or Telemetry 915-930 MHz



The CMG920-6 mast mount collinear is suitable for high gain wireless data applications within the ISM 915-930MHz frequency range.

The CMG920-6 is suitable for LoRa AU915-928, AS920-923, AS923-925 and KR920-923 Uplink and downlink applications

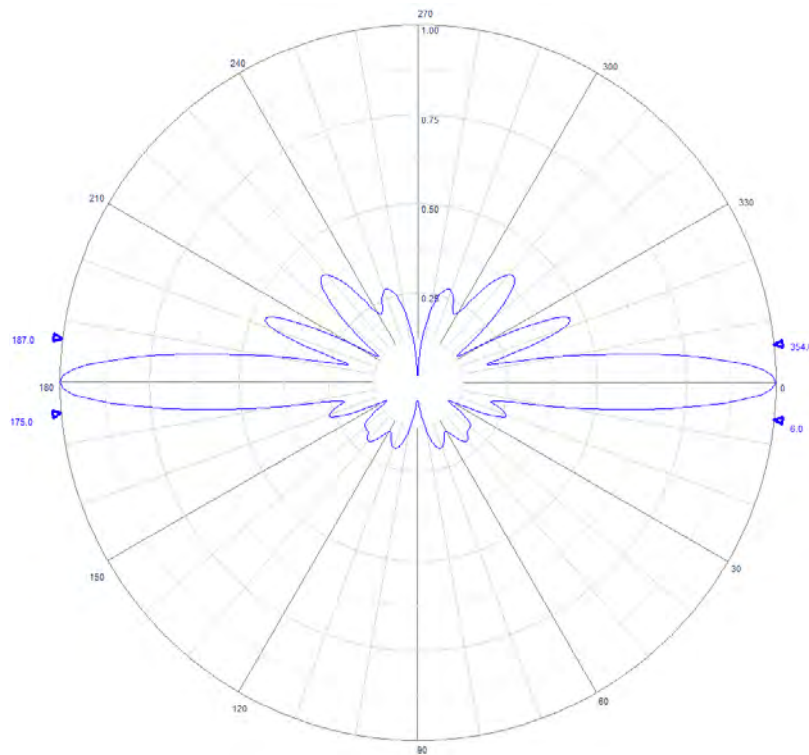
Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.

Construction	White fibreglass radome, 304 stainless steel mount section, external cable assembly and termination
Frequency range	915-930 MHz - Industrial, Scientific and Medical (ISM) or Telemetry suits AU915-928, AU923, US902-928, AS920-923, AS923-925 & KR920-923
VSWR	<1.5:1
Tuning	Factory
Gain	8.1 dBi
Maximum power	20 Watts
Impedance	50 Ohms
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omni-directional
E Plane	12°
Connector	N-type female fitted to cable
Cable	530mm MIL-SPEC RG58 low loss - side exit from mount section
Height	2.45 metres
Weight	2.0kg
Mount section	700mm x 38.1mm O.D. - 304 stainless steel
Mounting hardware order separate	Parallel: 2 x EB1-SS or UAM180L Right-angle: 2 x RB8, 1 x UB2-SS or 2 x UAM90L Side/wall mouting: 2 x NSM-218
Mounting position recommended	Mount as high on your mast/tower or structure using the appropriate mounting hardware.

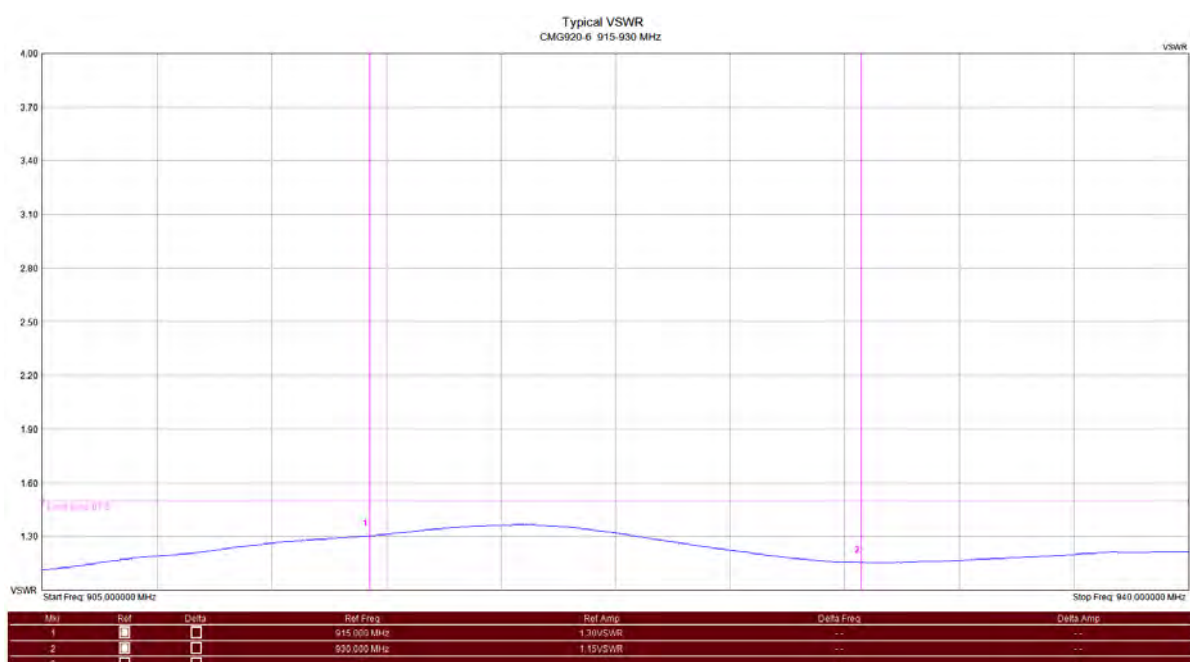


CMG920-6

ISM band omni-directional mast mount collinear
Industrial, Scientific and Medical or Telemetry 915-930 MHz



Example radiation pattern

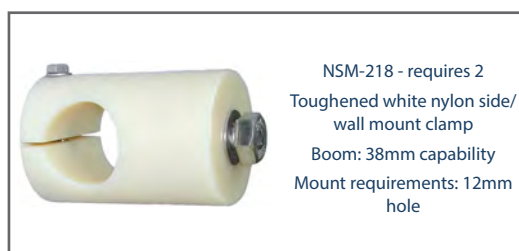
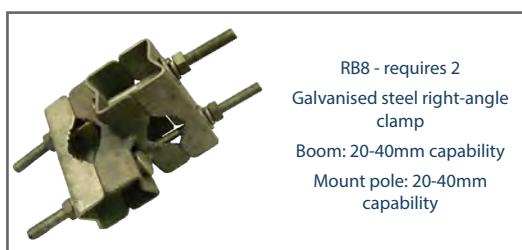
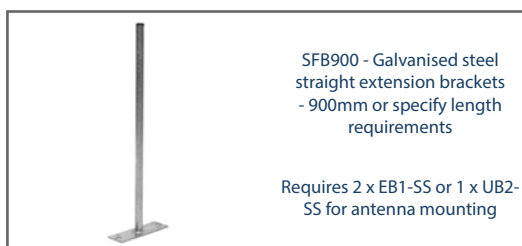
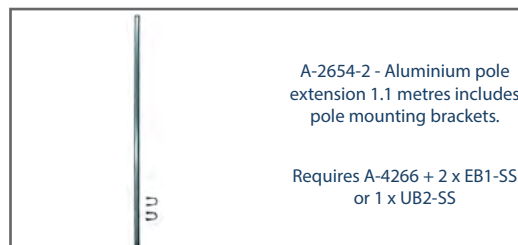


Typical VSWR

CMG920-6

ISM band omni-directional mast mount collinear

Industrial, Scientific and Medical or Telemetry 915-930 MHz



Suitable feeder coaxial cable and connectors



ZSG-1977

High gain omni-directional whip with ground plane

Radio location/IoT/M2M/LoRa/ISM 902-928 MHz

The ZSG-1977 is designed to be rugged with high gain capability, this antenna is ideal for ISM or Radio location applications. The ZSG-1977 is easy to assemble and designed for outdoor applications on either a tower or structure.

Please note: the N-type female concealed inside the removable mount section to assist with weather protection. Water-proofing should still be applied to the termination.

Mounting hardware, water-proofing, bird-proofing and other installation hardware are all available separately.



Construction	Black stainless steel whip, aluminium radials, anodised aluminium mount section with concealed termination
Frequency range	902-928 MHz - UHF, IoT, ISM, LoRa and Radio location compatible Suits AS915-928, AS923, AS920-923 and KR920-923
Bandwidth	Full frequency range stated - 26 MHz
VSWR	<2.2:1
Tuning	Factory
Gain	5.1 dBi
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
Connector	Concealed N-type female inside mount section
Mount section	200mm x 32mm O.D. - anodised aluminium
Height	600mm
Width	250mm - radial width
Weight	400grams
Projected area	0.006m ²
Wind load at 160kph	0.749kg, 0.007kN
Mounting hardware order separate	Mast mounting: 2 x EB1-SS or 1 x UB3-SS or 1 x UB2-SS Side/wall mounting: 1 x NSM-CL3642
Mounting position recommended	Mount as high on your structure/mast or tower as possible using the appropriate mounting hardware, ensuring no obstructions.
Installation tools required	Phillips head screwdriver for handle securing Amalgamation butyl rubber tape and PVC tape for sealing



ZSG-1977 concealed N-type female inside mount section



Detachable threaded radials

M99-900 Series

Omni-directional wireless data link flexible whip

Radio Location / M2M / IoT / ISM / LoRa 900-930 MHz



The M99-900 series are highly flexible whips specifically designed for wireless data link, M2M, IoT, Radio location or LoRaWAN within the 900-930MHz range. The M99BNC-900 is suited for internal M2M/IoT/LoRaWAN or ISM applications. For external applications see the SG900-TPM series or CFD890.

Coaxial feeder cable, adaptors and other installation accessories are all available separately.

	M99BNC-900	M99N-900*
Construction	Black heatshrunk whip and chrome connector	
Frequency range	LoRa /M2M/IoT/ISM900 900-930 MHz Suits AU915-928, AS923, US902-928, AS920-923, AS923-925 & KR920-923	UHF/Mobile phone 900 MHz
Bandwidth	Full frequency range	
VSWR	<1.5:1 across tuned bandwidth	
Tuning	Factory	
Gain	2.1 dBi	
Impedance - nominal	50 Ohms	
Connector	BNC male as base	N-type male as base
Maximum power	25 Watts	
Polarisation	Vertical	
H Plane	360° omnidirectional	
Height	195mm	114mm
Weight	26grams	50grams
Mounting requirements	BNC male fits to any BNC female terminated device such as hand-held radio	N-type male fits to any N-type female terminated device
Mounting position recommended	Mount as high on your structure or device as possible. If using on a device, ensure not enclosed within metallic surfaces or metallic lined walls.	



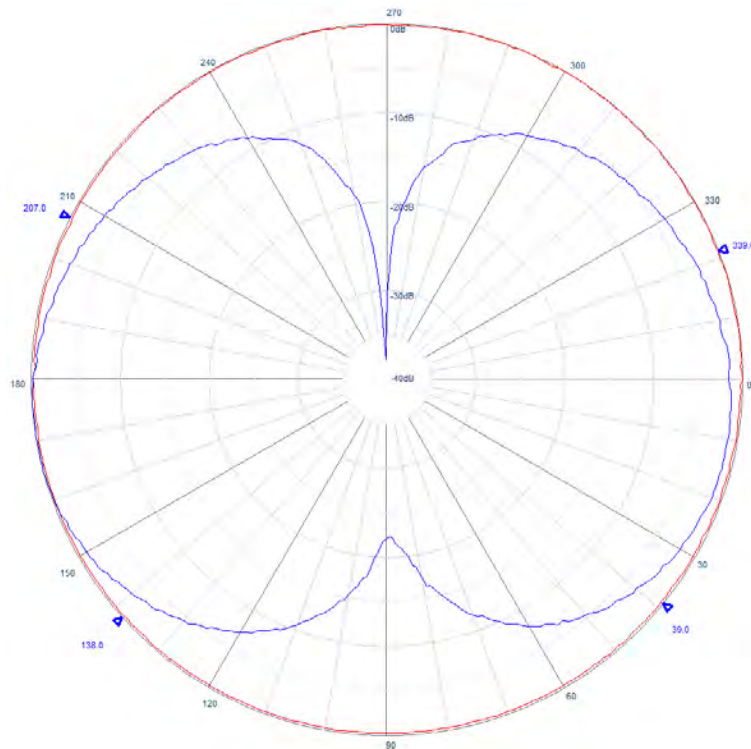
BNC male as mount base and termination

N-type male as mount base and termination

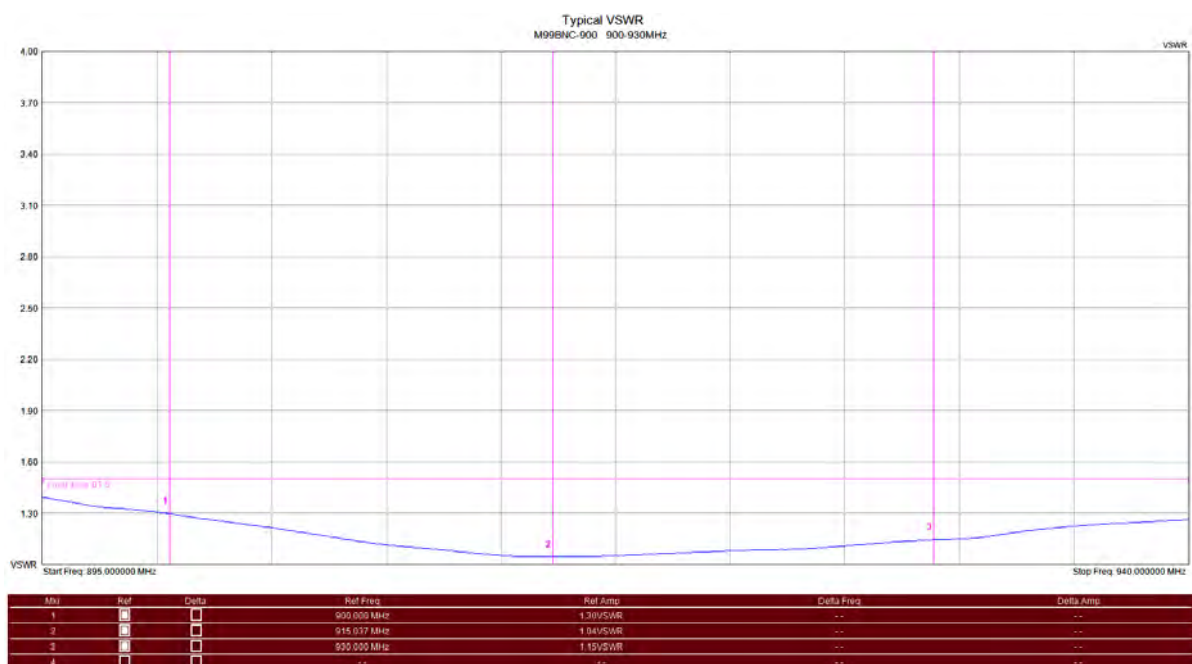


M99-900 Series

Omni-directional wireless data link flexible whip
Radio Location / M2M / IoT / ISM / LoRa 900-930 MHz



Example radiation pattern - M99BNC-900



Typical VSWR

ZSMA-905

SMA male terminated flexible whip

UHF 870-940 MHz



The ZSMA-905 highly flexible whip is designed to fit onto any portable radio with a SMA female connection.

The ZSMA-905 whip is not ground independent and suit to be mounted onto hand-held devices or interior static devices.

Adaptors, water proofing and other installation accessories are all available separately.

Construction	Black Thermoplastic Polyether Elastomer (TPEE) outer and chrome termination
Frequency range	870-940 MHz - UHF, IoT, ISM and LoRa compatible Suits AUS915-928, AS923, US902-928, AS920-923, AS923-925 & KR920-923
Bandwidth	Full frequency range stated - 70 MHz
VSWR	<2.5:1
Tuning	Factory
Gain	2.1 dBi
Impedance - nominal	50 Ohms
Maximum power	25 Watts
Polarisation	Vertical
H Plane	360° omnidirectional, ±0.5
Connector	SMA male plug connector as base
Height	110mm
Weight	12grams
Mounting accessories	SMA male plug fits to any SMA female jack terminated device
Mounting position recommended	Mount as high on your structure as possible. If using on a hand-held device, ensure device is not enclosed within metallic material or within a metallic lined structure.



ZGSM-WX series

Mobile phone/Wireless data improvement pivot whip

4G LTE 700-800 MHz or 4G/3G 824-960 MHz & 1710-1880 MHz


In-stock
Ready to
Ship
* Signifies build to
order item

The ZGSM-WX series of ninety degree whip antennas will improve mobile phone or wireless data device reception and transmission range.

Ideal applications for the ZGSM-WX series are:

- Wireless data communication
- Wireless monitoring/ telemetry
- Mobile phone network improvement

Cable assemblies and other installation accessories are all available separately.



	ZGSM-WX-750*	ZGSM-WX-825
Construction	Black moulded outer, 90° swivel joint, and gold plated termination	
Frequency range	700-800 MHz - 4G LTE	824-990 MHz - lower 4G/3G
Bandwidth	Full frequency range stated	
VSWR	<1.5:1	
Tuning	Factory	
Gain	5.5 dBi	5.5 dBi
Maximum power	50 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
Connector	SMA male plug connector as base	
H Plane	360° omnidirectional	
Operating temperature	-40°C to +80°C	
Storage temperature	-40°C to +85°C	
Dimensions	Height: 196mm, Diameter: 15mm	
Weight	150grams	
Mounting	Connection straight to the device with swivel flanged connection, can be used in conjunction with low loss cable tail.	



ZYUE-4GLTE series

Mobile phone/Wireless data improvement pivot whip

4G LTE, 4G, 3G and ISM2.4/WiFi



The ZYUE-4GLTE series of whips has the ability to be either set straight, or on a 90 degree bend for those space saving requirements. Suitable for 4G LTE, 4G, 3G and WiFi applications.

Adaptors, patch leads, water proofing and other installation accessories are all available separately.



	ZYUE-4GLTE-001	ZYUE-4GLTE-N001
Construction	Black moulded whip, 90 degree swivel chrome connector	
Frequency range	704-960 MHz & 1710-2690 MHz - 4G LTE, 4G/3G and WiFi/WLAN compatible	
Bandwidth	Full frequency ranges stated	
VSWR	<2.0:1	
Tuning	Factory	
Gain	4.5 dBi	5 dBi
Impedance	50 Ohms	
Maximum power	10 Watts	
Connector as base	SMA male plug connector as base	
Polarisation	Linear	
H Plane	360° omnidirectional	
Dimensions	Height: 87.5-105mm Diameter: 9.4mm Width: 27mm	Height: 144-182mm Width: 30mm Depth: 16.3mm
Mounting	SMA male fits to any SMA female terminated device	
Operating temperature	-20°C to +65°C	-40°C to +80°C
Mounting position recommended	Mount as high as possible, if using on a hand-held device, ensure device is not enclosed within metallic material or within a metallic lined structure.	



ZYUE-4GLTE-001



ZYUE-4GLTE-N001

ZYUE-4GLTE-002

Mobile phone/Wireless data whip

4G LTE, 4G, 3G and ISM2.4/WiFi



The ZYUE-4GLTE-002 whip is suitable as a telemetry antenna solution for all networks 4G LTE, 4G/3G as well as WiFi/WLAN applications.

The ZYUE-4GLTE-002 is a fixed polarised whip for vertical applications, ZCG also supply a 90 degree pivot mount version ZYUE-4GLTE-001

Adaptors, patch leads, water proofing and other installation accessories are all available separately.



Construction	Black TPEE moulded outer radome and external chrome connector
Frequency range	698-960 MHz & 1710-2700 MHz - 4G LTE, 4G/3G and WiFi/WLAN
Bandwidth	Full frequency ranges stated
VSWR	<2.0:1
Tuning	Factory
Gain	5.5 dBi
Impedance	50 Ohms
Maximum power	50 Watts
Connector as base	SMA male plug connector as base
Polarisation	Linear - Vertical
H Plane	360° omnidirectional
Height	180mm
Mounting	SMA male fits to any SMA female terminated device
Operating temperature	-20°C to +65°C
Mounting position recommended	Mount as high as possible, if using on a hand-held device, ensure device is not enclosed within metallic material or within a metallic lined structure.



ZYUE-WX-900F

90 degree swivel whip

UHF, ISM, IoT or LoRa 902-928 MHz



The ZYUE-WX-900F portable whip has the added ability to be either set straight, or on a 90 degree bend for those space saving requirements.

Suitable for UHF, Wireless data or I.S.M. (industrial, scientific and medical) applications or any requirement within 902-928 MHz frequency range.

Adaptors, patch leads, water proofing and other installation accessories are all available separately.



Construction	Black moulded TPEE radome, 90 degree swivel joint and chrome connector
Frequency range	902-928 MHz - UHF, ISM, IoT and LoRa compatible
Bandwidth	Full frequency range stated - 26 MHz
VSWR	<1.5:1
Tuning	Factory
Gain	2.15 dBi
Impedance	50 Ohms
Maximum power	50 Watts
Connector	Reverse polarity SMA male
Polarisation	Vertical, or 90° vertical to your equipment
H Plane	360° omnidirectional
Height	210mm
Weight	26grams
Mounting	Reverse polarity SMA male fits to any reverse polarity SMA female terminated device.
Mounting position recommended	Mount as high on your device as possible. If using on a hand-held device, ensure device is not enclosed within metallic material or within a metallic lined structure.





M96T series

M6 female threaded flexible whip

Lower 4G/3G 825-890 MHz or 890-960 MHz



The M96T series of whips are highly flexible whips with a M6 x 1.0mm female thread in the ferrule suitable for European 6mm terminations. Suitable for locations or requirements where a small and discrete profile is required such as taxi's, trucks or public transport applications

Mounting bases, water proofing and other installation accessories are all available separately.



	M96T	M96T-GSM
Construction	Black heatshrunk flexible whip and brass mount ferrule	
Frequency range	825-890 MHz - lower 4G/3G Telstra & Vodafone within Australia	890-960 MHz - lower 4G/3G Optus & Vodafone within Australia
Bandwidth	Full frequency range stated	
VSWR	<1.5:1	
Tuning	Factory	
Gain	2.1 dBi	
Impedance	50 Ohms	
Maximum power	5 Watts	
Thread in base	M6 x 1.0mm female thread	
Polarisation	Vertical	
H Plane	360° omnidirectional	
Dimensions	Height: 77mm Diameter: 10mm	Height: 80mm Diameter: 10mm
Weight	30grams	26grams
Mounting hardware order separate	6mm female thread fits to any 6mm male terminated base such as XB-4.7 or MGB-XB	
Mounting position recommended	Mount as high as possible, if using on a hand-held device, ensure device is not enclosed within metallic material or within a metallic lined structure.	



LPY2250 and LPY2250-25

Broadband log periodic antenna

UHF, ISM, 4G LTE & 4G/3G or UHF, ISM, 4G LTE, 4G & 3G

The LPY2250 and LPY2250-25 log periodic antennas provide exceptionally broad bandwidth coverage across the UHF frequency range 850-2250 MHz or 650-2250 MHz.

Coaxial feeder cable, connectors and other installation accessories are all available separately.

	LPY2250*	LPY2250-25
Construction	Fully-welded 304 grade stainless steel boom, elements and mount bracket	
Frequency range	850-2250 MHz - UHF, ISM & 4G/3G	650-2250 MHz - UHF, ISM, 4G LTE & 4G/3G
VSWR	<2:1	
Tuning	Factory	
Gain	8 dBi	10.2 dBi
Maximum power	250 Watts	
Impedance - nominal	50 Ohms	
Polarisation	Mount horizontal or vertical as required	
H Plane	98°	63°
E Plane	59°	48°
Front-to-back ratio	24 dB	
DC grounding	Yes	
Cable tail	200mm RG58 low loss - rear exit from clamp	
Connector	N-type female fitted as standard - or specify requirements	
Boom length	480mm	1.15m
Longest element	185mm	200mm
Weight	410grams	650grams
Projected area	0.009m ²	0.012m ²
Wind load at 160kph	0.995kg, 0.01kN	1.01kg, 0.02kN
Mounting hardware supplied	Welded angle mounting plate and 50mm diameter stainless steel U-bolt	
Installation tools required	13mm or 1/2" spanner for mounting U-bolt	



LPY2250 model

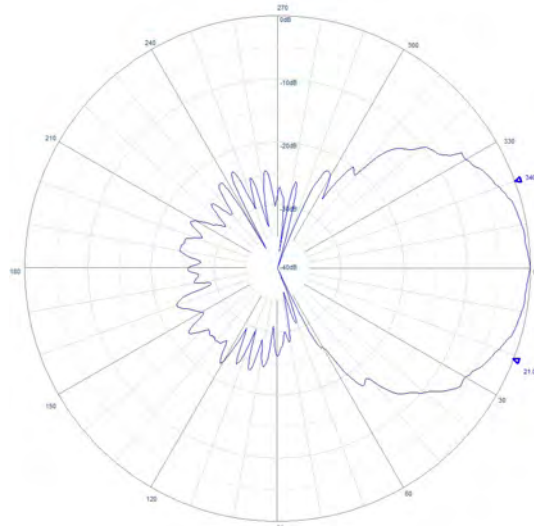


LPY2250-25 model

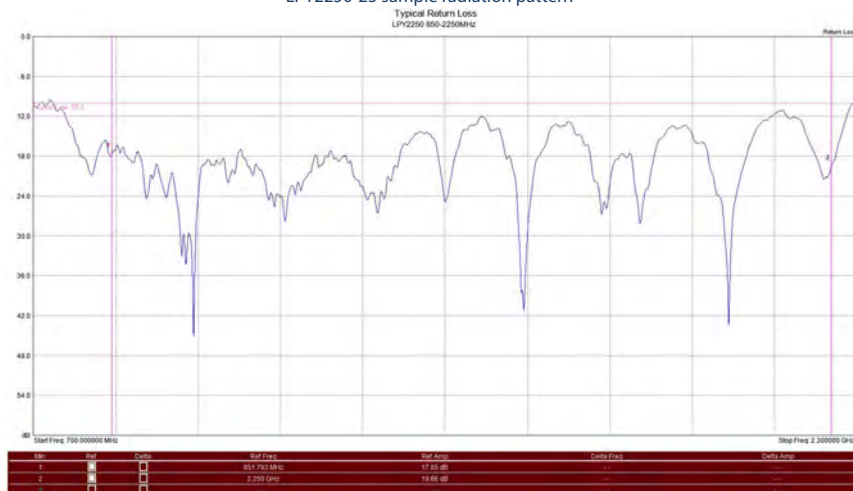
LPY2250 and LPY2250-25

Broadband log periodic antenna

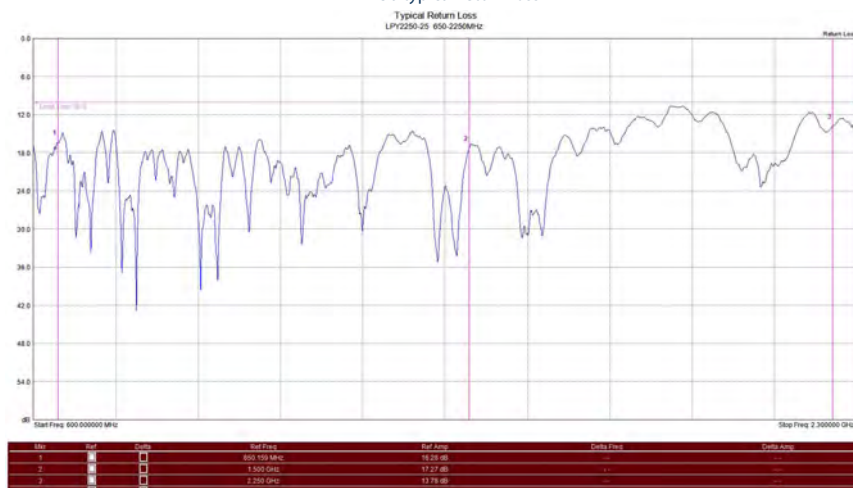
UHF, ISM, 4G LTE & 4G/3G or UHF, ISM, 4G LTE, 4G & 3G



LPY2250-25 sample radiation pattern



LPY2250 typical return loss







LPY2250-25 typical return loss

LPY2250 and LPY2250-25

Broadband log periodic antenna

UHF, ISM, 4G LTE & 4G/3G or UHF, ISM, 4G LTE, 4G & 3G

Suitable mounting hardware

 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires mounting screws/bolts and mounting hardware for antenna</p>	 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires mounting screws/bolts and mounting hardware for antenna</p>
 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires mounting screws/bolts and mounting hardware for antenna</p>	 <p>A-2307 - 6-piece aluminium & fibreglass mast - 6.68m</p> <p>Includes: insulated top, guy wires, spigots and base bracket.</p>

Suitable feeder coaxial cable and connectors

 <p>MIL-SPEC RG213 stranded copper conductor coaxial cable P/N 7800</p> <p>Available in 100m or 300m rolls or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for MIL-SPEC RG213 P/N 7937</p> <p>Tri-metal plated</p>
 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave) P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor P/N 8226</p> <p>Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable P/N NM1250SF</p> <p>Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable P/N NM1250</p> <p>Tri-metal plated</p>

LPY2250-716

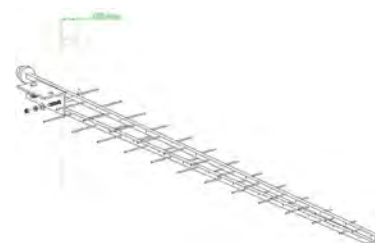
Directional broadband 21 element log periodic antenna
UHF, ISM, 4G, 3G & WiFi 790-2800 MHz



The LPY2250-716 directional 21 element log periodic antenna provides exceptionally broad bandwidth coverage across the full UHF, ISM, 4G & 3G frequency ranges. Suitable for highly directional data transfer or telemetry applications.

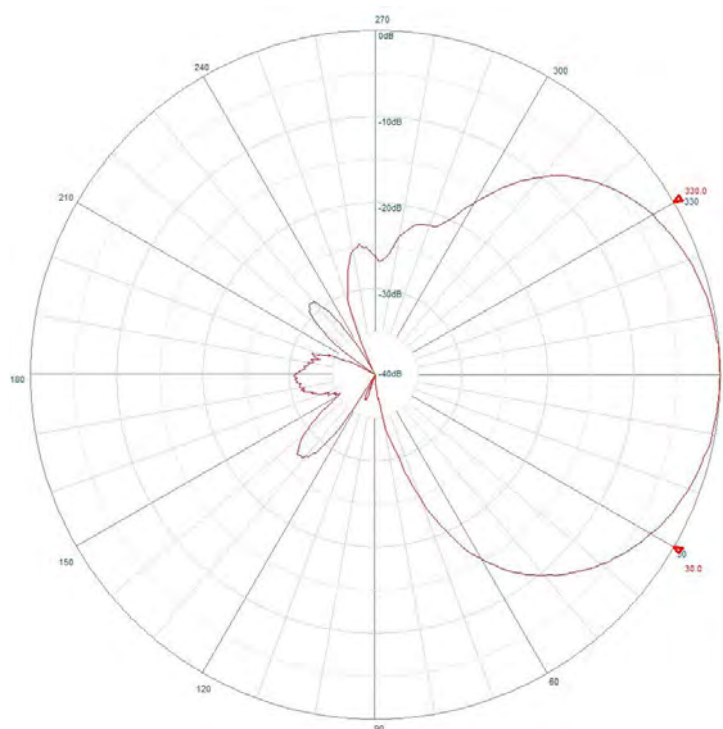
Coaxial feeder cable, connectors and other installation accessories are all available separately.

Construction	Fully-welded 304 stainless steel and external termination
Frequency range	790-2800 MHz - UHF, ISM, 4G, 3G & WiFi compatible
VSWR	<2:1
Tuning	Factory
Gain	10.8 dBi
Maximum power	Higher than 150 Watts for each band and a total power of 500 Watts
Impedance - nominal	50 Ohms
Polarisation	Mount horizontal or vertical as required
H Plane	63°
E Plane	48°
Front-to-back ratio	24 dB
DC grounding	Yes
Connector	7/16" DIN female fitted as standard, or specify termination
Boom length	900mm
Longest element	190mm
Weight	750grams
Projected area	0.037m ²
Wind load at 200kph	7.963kg, 0.070kN
Mounting hardware supplied	Mounting clamp plate welded to rear of antenna, U-bolt 25-50mm capability, nuts/washers included
Installation tools required	13mm or 1/2" spanner for mounting U-bolt

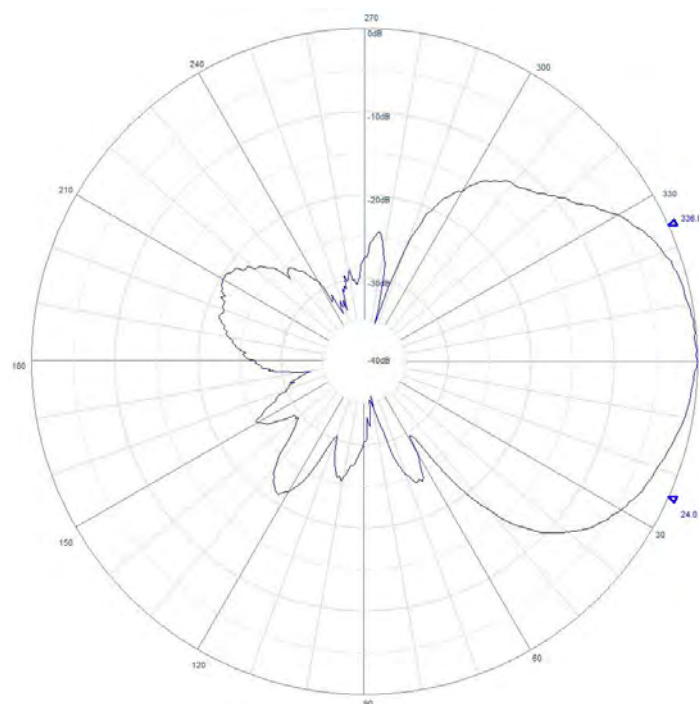


LPY2250-716

Directional broadband 21 element log periodic Yagi
UHF, ISM, 4G, 3G & WiFi 790-2800 MHz



Sample radiation pattern AZ Plane



Sample radiation pattern EL Plane

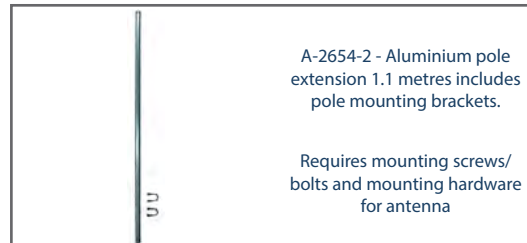
LPY2250-716

Directional broadband 21 element log periodic Yagi
UHF, ISM, 4G, 3G & WiFi 790-2800 MHz



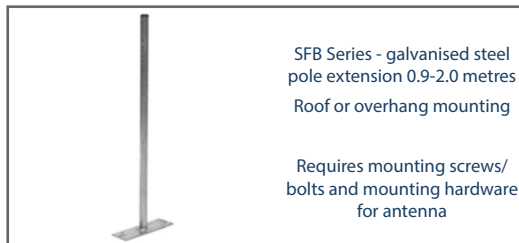
CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires mounting screws/ bolts and mounting hardware for antenna



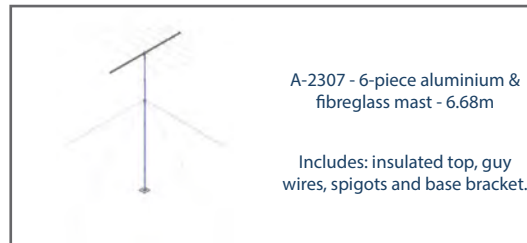
A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.

Requires mounting screws/ bolts and mounting hardware for antenna



SFB Series - galvanised steel pole extension 0.9-2.0 metres
Roof or overhang mounting

Requires mounting screws/ bolts and mounting hardware for antenna



A-2307 - 6-piece aluminium & fibreglass mast - 6.68m

Includes: insulated top, guy wires, spigots and base bracket.

Suitable feeder coaxial cable and connectors



RU400 Solid copper conductor, low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(™ times microwave)

P/N 7890

Available in 100m, 300m or 500m rolls or alternatively request a custom cable assembly



7/16" DIN male clamp-style connector for RU400 low loss, solid conductor

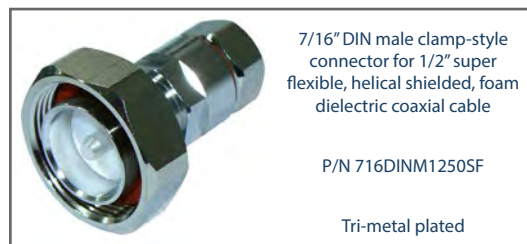
P/N 8266

Tri-metal plated



1/2" helical shielded, foam dielectric coaxial cable
P/N ZCG1250SF

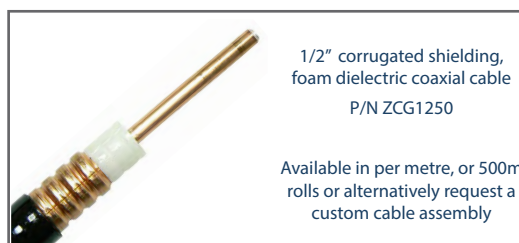
Available in per metre, or 500m rolls or alternatively request a custom cable assembly



7/16" DIN male clamp-style connector for 1/2" super flexible, helical shielded, foam dielectric coaxial cable

P/N 716DINM1250SF

Tri-metal plated



1/2" corrugated shielding, foam dielectric coaxial cable
P/N ZCG1250

Available in per metre, or 500m rolls or alternatively request a custom cable assembly



7/16" DIN male clamp-style connector for 1/2" flexible, corrugated shielded, foam dielectric coaxial cable

P/N 716DINM1250

Tri-metal plated



7/8" corrugated shielding, foam dielectric coaxial cable
P/N ZCG7850

Available in per metre, or 500m rolls or alternatively request a custom cable assembly



7/16" DIN male clamp-style connector for 7/8" flexible, corrugated shielded, foam dielectric coaxial cable

P/N 716DINM7850

Tri-metal plated

LPY698-2700 series

Radome enclosed directional multiband log periodic antenna
4G LTE, 4G/3G & WiFi/WLAN 698-960 MHz & 1710-2700 MHz


In-stock
Ready to
Ship
* Signifies build to order item

The LPY698-2700 series of radome enclosed log periodic antenna provides exceptionally broad bandwidth coverage across all networks 4G LTE & 4G/3G mobile phone networks and WiFi/WLAN 698-960 MHz & 1710-2700MHz.

Coaxial feeder cable, connectors and other installation accessories are all available separately.



	LPY698-2700S*	LPY698-2700
Construction	White PVC radome and aluminium mounting hardware	
Frequency range	698-960 MHz & 1710-2700 MHz - 4G LTE, 4G/3G and WiFi/WLAN	
Bandwidth	Full frequency ranges stated	
VSWR	<1.5:1	
Tuning	Factory	
Gain	8 dBi	11 dBi
Maximum power	100 Watts	50 Watts
Impedance - nominal	50 Ohms	
Polarisation	Mount horizontal, vertical or +/- slant as required	
H Plane	70-90°	65°
E Plane	85-110°	50°
DC grounding	Yes	
Connector	N-type female fitted to 200mm white RG58 stranded	
Dimensions	Length: 290mm, Width: 65mm, Height: 210mm	Length: 400mm, Width: 60mm, Height: 260mm
Weight	1.5kg	
Wind Load at 160kph	Front: 1.653kg, 0.016kN Side: 7.377kg, 0.072kN	Front: 1.89kg, 0.019kN Side: 12.598kg, 0.123kN
Mounting hardware supplied	Adjustable angle plate clamp and 2 x 40-50mm diameter U-bolts	
Mounting position recommended	Mount as high on your structure, pole, mast or tower as possible using a maximum 50mm diameter pole. Adjust the polarisation of the antenna using the mounting holes on the mount bracket.	
Installation tools required	10mm spanner for securing bracket and U-bolts	



LPY698-2700S



LPY698-2700

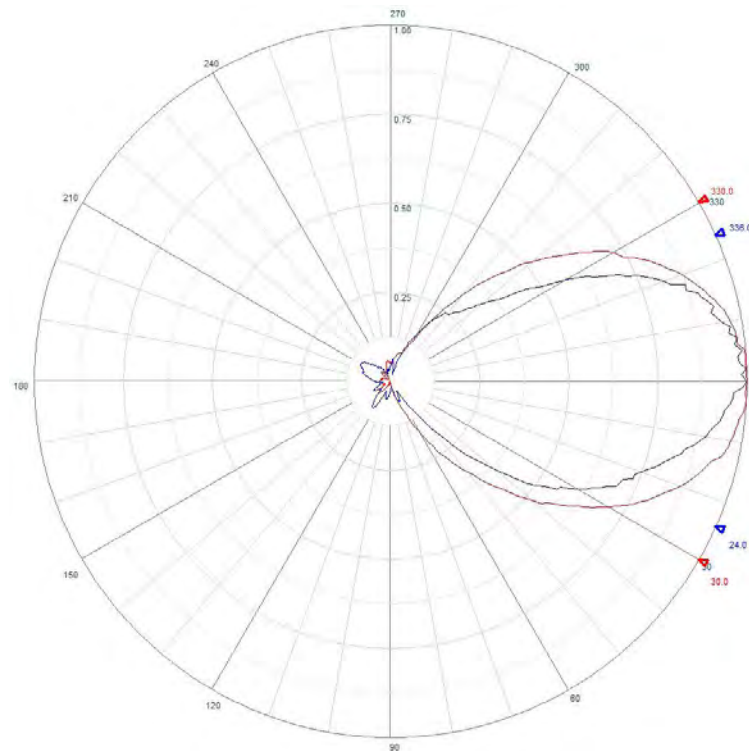


LPY698-2700 in +45 & -45 configuration for full 4G LTE 'X' polarised capability.

LPY698-2700 series

Radome enclosed directional multiband log periodic antenna
4G LTE, 4G/3G & WiFi/WLAN 698-960 MHz & 1710-2700 MHz


In-stock
Ready to
Ship
* Signifies build to
order item







Example radiation pattern - LPY698-2700S

LPY698-2700 series

Radome enclosed directional multiband log periodic antenna
4G LTE, 4G/3G & WiFi/WLAN 698-960 MHz & 1710-2700 MHz



Suitable mounting hardware

 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires mounting screws/ bolts and mounting hardware for antenna</p>	 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires mounting screws/ bolts and mounting hardware for antenna</p>
 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires mounting screws/ bolts and mounting hardware for antenna</p>	 <p>A-2307 - 6-piece aluminium & fibreglass mast - 6.68m</p> <p>Includes: insulated top, guy wires, spigots and base bracket.</p>

Suitable feeder coaxial cable and connectors

 <p>MIL-SPEC RG213 stranded copper conductor coaxial cable P/N 7800</p> <p>Available in 100m, 300m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for MIL-SPEC RG213 P/N 7937 Tri-metal plated</p>
 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave) P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor P/N 8226 Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable P/N NM1250SF Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable P/N NM1250 Tri-metal plated</p>



GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

Page 1 of 5



The GCRFA low profile all-in-one antenna will improve mobile phone/ wireless data, L1 GPS and WiFi/WLAN reception, including 4G LTE and dualband 4G/3G.

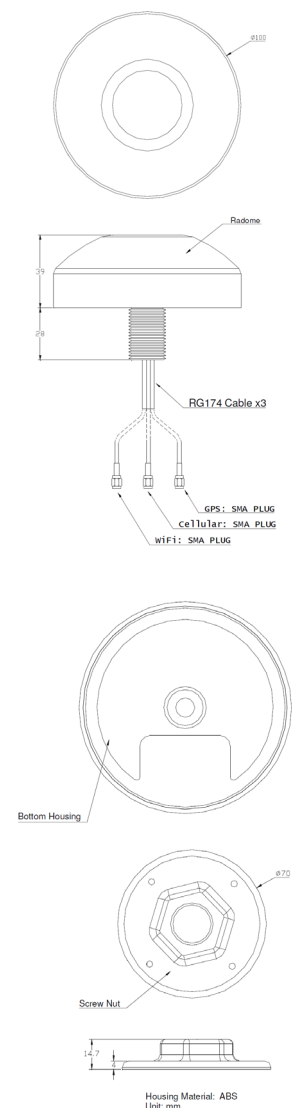
The GCRFA is suitable for mobile or fixed position installations for all environments, with the internal enclosed inside a robust ABS enclosure.

Mounting hardware, adaptors and other installation accessories are all available separately.



Construction	White ABS polycarbonate enclosure,		
Mobile phone coverage	698-800 MHz, 824-960 MHz & 1710-2170 MHz - 4G LTE, 4G/3G		
GPS frequency	1575.42 MHz - L1 GPS		
WiFi ability	2.4-2.5 GHz & 4.7-5.9 GHz - WiFi/WLAN		
Tuning	Factory		
VSWR	Cellular: 3.0:1	L1 GPS: 1.5:1	WiFi 2.4: 2.0:1 WiFi 5.8: 3.0:1
Impedance	50 Ohms		
H Plane	360° omnidirectional		
Weight	280grams		
Dimensions	Diameter: 100mm, Height: 39mm, Thread length: 28mm		
Cable	3 x 5 metre RG174/U		
Connector - fitted	3 x SMA male or specify		
Mounting requirements	Any bracket or flat surface with 20mm hole using cream ABS nut and attached rubber gasket supplied		
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 20mm hole or bracket with 20mm hole.		
Alternate models	GCRFA-10 - GCRFA with 10m cable lengths , specify terminations GCRFA-GP - GCRFA with 102mm diameter ground plane for non metallic mounting such as fibreglass or plastic.		
Installation tools required	20mm spanner for nut securing		
RoHS compliant	Yes		
Waterproof rating	IP56		

[Detailed specifications on next page...](#)





GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

Page 2 of 5



GPS active patch antenna

Frequency coverage	L1 GPS 1575.42 MHz \pm 3 MHz				
VSWR	1.5:1 - maximum				
Bandwidth	20 MHz min. at -10dB				
Gain coverage	-4dBic at -90°C 90°(over 75% volume)				
Polarisation	Right-hand circular polarised - RHCP				
Amplifier module	Amplifier gain without cable	Noise Figure	Output VSWR	DC voltage	DC current
	27dB - typical	1.8dB - typical	2.0:1 - maximum	DC 2.7V to 6.0V	8.5 \pm 4.5mA

LTE, 4G/3G Cellular module

Frequency		696-800 MHz	824-960 MHz	1710-1990 MHz	1990-2170 MHz
VSWR - maximum		3.0:1	3.0:1	3.0:1	3.0:1
Average gain	With GP*	-1.5 dBi	-2.33 dBi	-1.86 dBi	-1.52 dBi
	Without GP	-2.15 dBi	-3.33 dBi	-2.75 dBi	-2.07 dBi
Average Efficiency	With GP*	71.07%	61.60%	65.36%	70.87%
	Without GP	61.36%	48.47%	53.23%	62.58%
Peak gain	With GP*	3.79 dBi	4.11 dBi	4.94 dBi	5.91 dBi
	Without GP	3.74 dBi	3.61 dBi	2.34 dBi	4.21 dBi

WiFi module

Frequency		2.4-2.5 GHz	4.7-5.0 GHz	5.0-5.4 GHz	5.4-5.9 GHz
VSWR		2.4-2.5 GHz - 2.0:1		4.7-5.9 GHz - 3.0:1	
Impedance		50 Ohms			
Polarisation		Omnidirectional - Linear			
Power handling		25 Watts			
Average gain	With GP*	-2.15 dBi	-4.63 dBi	-3.76 dBi	-3.34 dBi
	Without GP	-2.70 dBi	-5.16 dBi	-4.31 dBi	-3.71 dBi
Average Efficiency	With GP*	61.07%	35.27%	42.87%	47.69%
	Without GP	53.88%	31.13%	37.53%	43.67%
Peak gain	With GP*	2.49 dBi	6.31 dBi	6.28 dBi	6.38 dBi
	Without GP	1.19 dBi	5.63 dBi	5.79 dBi	6.22 dBi

GP = Ground Plane
* ground plane dimensions 400mm x 400mm

Improved
Product

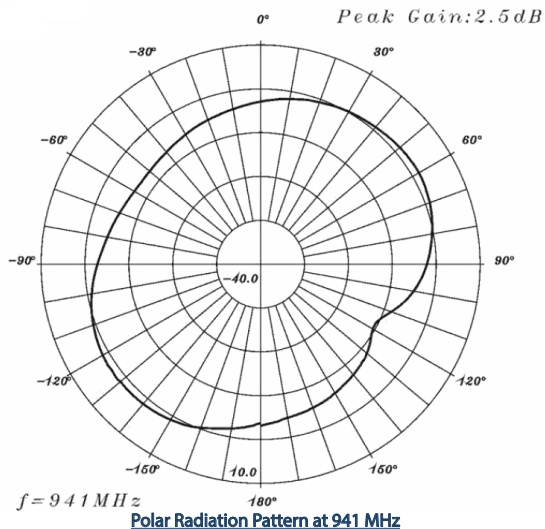
GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

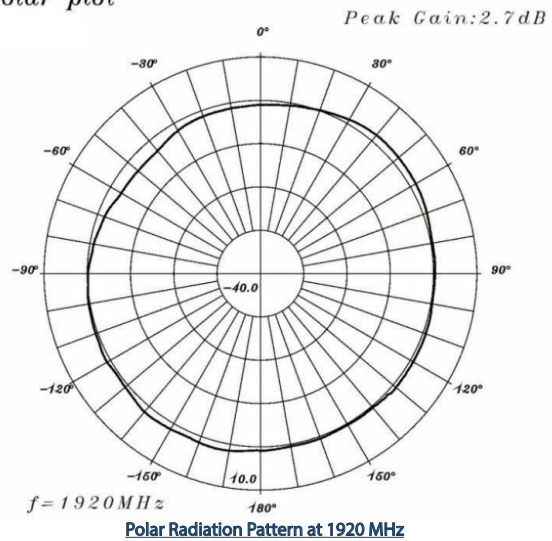
Page 3 of 5

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Ready to
Ship

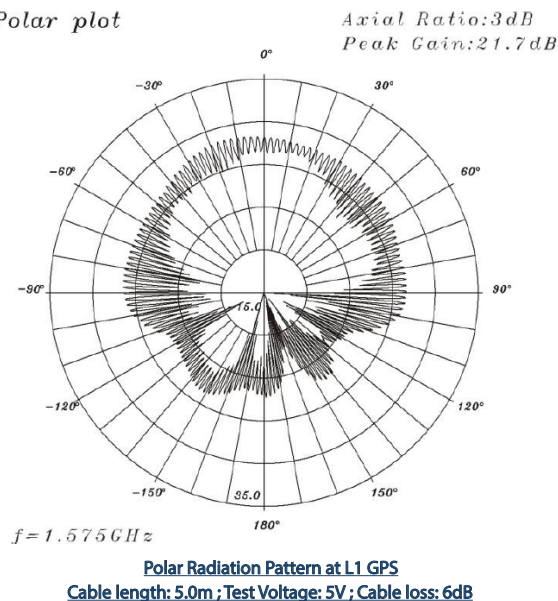
Polar plot



Polar plot



Polar plot



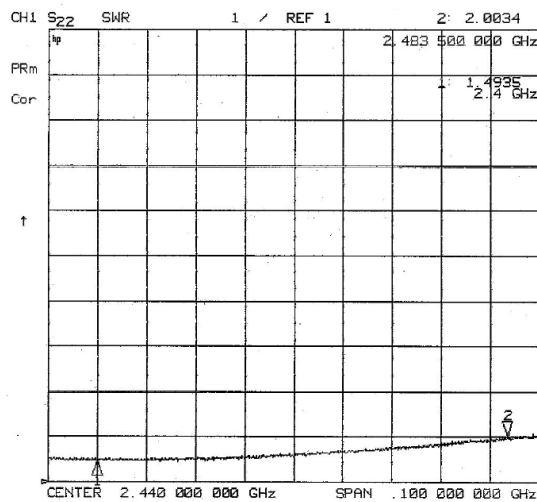
Improved
Product

GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

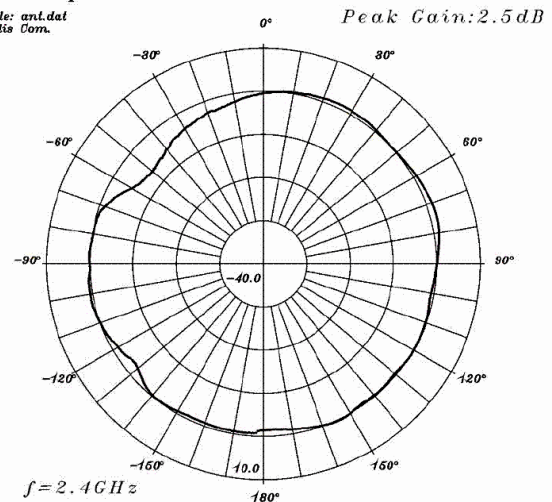
Page 4 of 5

 In-stock
Ready to
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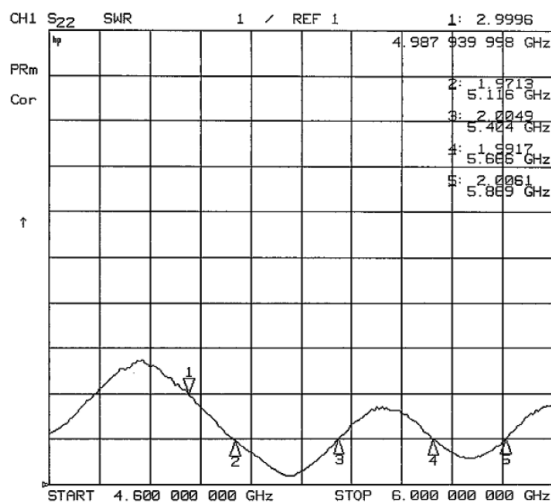


Polar plot

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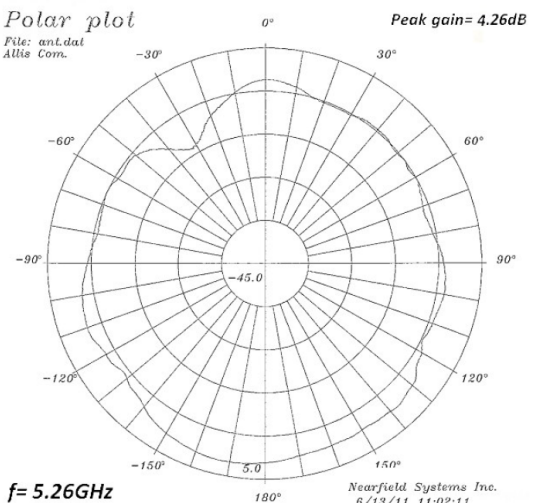


VSWR plot and Polar Radiation Pattern at 2.4 - 2.4835 GHz



Polar plot

File: ant.dat
Atis Com.



VSWR plot and Polar Radiation Pattern at 5.0 - 5.9 GHz

Improved
Product

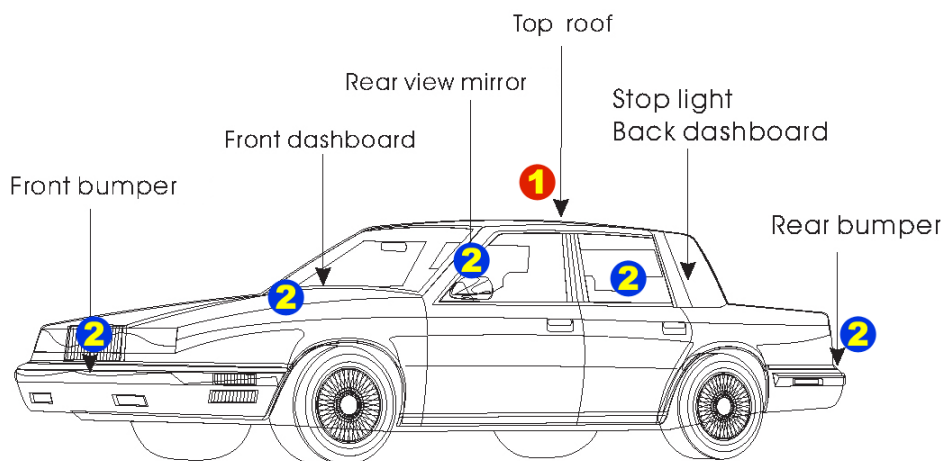
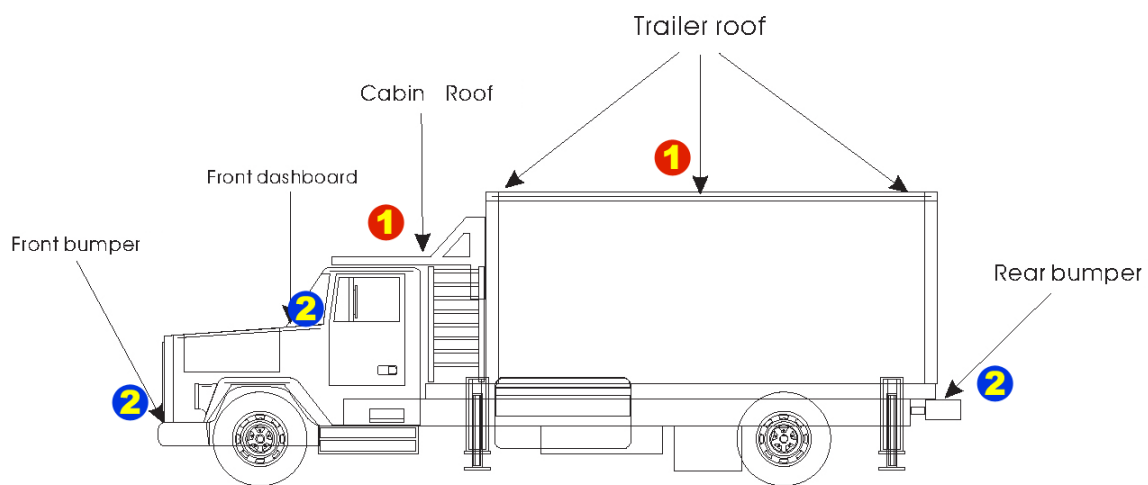
GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

Page 5 of 5


In-stock
Ready to
Ship

1 indicates an ideal location for best omnidirectional performance



ZRPM

Road embedded low profile data antenna

ISM 915 MHz and ISM/WiFi 2.4 GHz

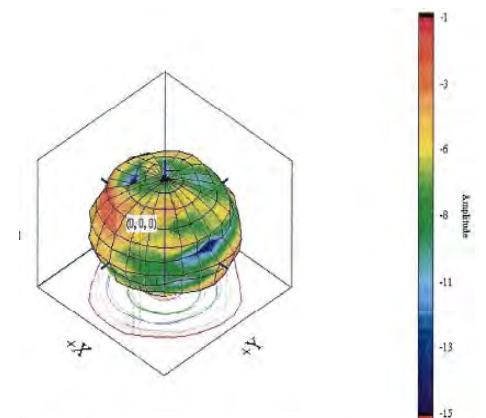
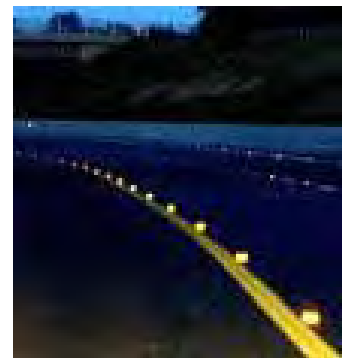


The ZRPM is a raised pavement marker data antenna. Currently in use for data collection from highway monitoring equipment. It is designed and manufactured to ensure long term survival and will deliver reliable performance, low profile and vandal resistant.

These antenna's perform at high efficiencies in a small package. Designed to be mounted directly onto the road pavement, just like a standard road marker.

These antennas have been potted with the same epoxy that secures the road marker to the road surface. No air gaps inside the road marker to maintain the mechanical integrity.

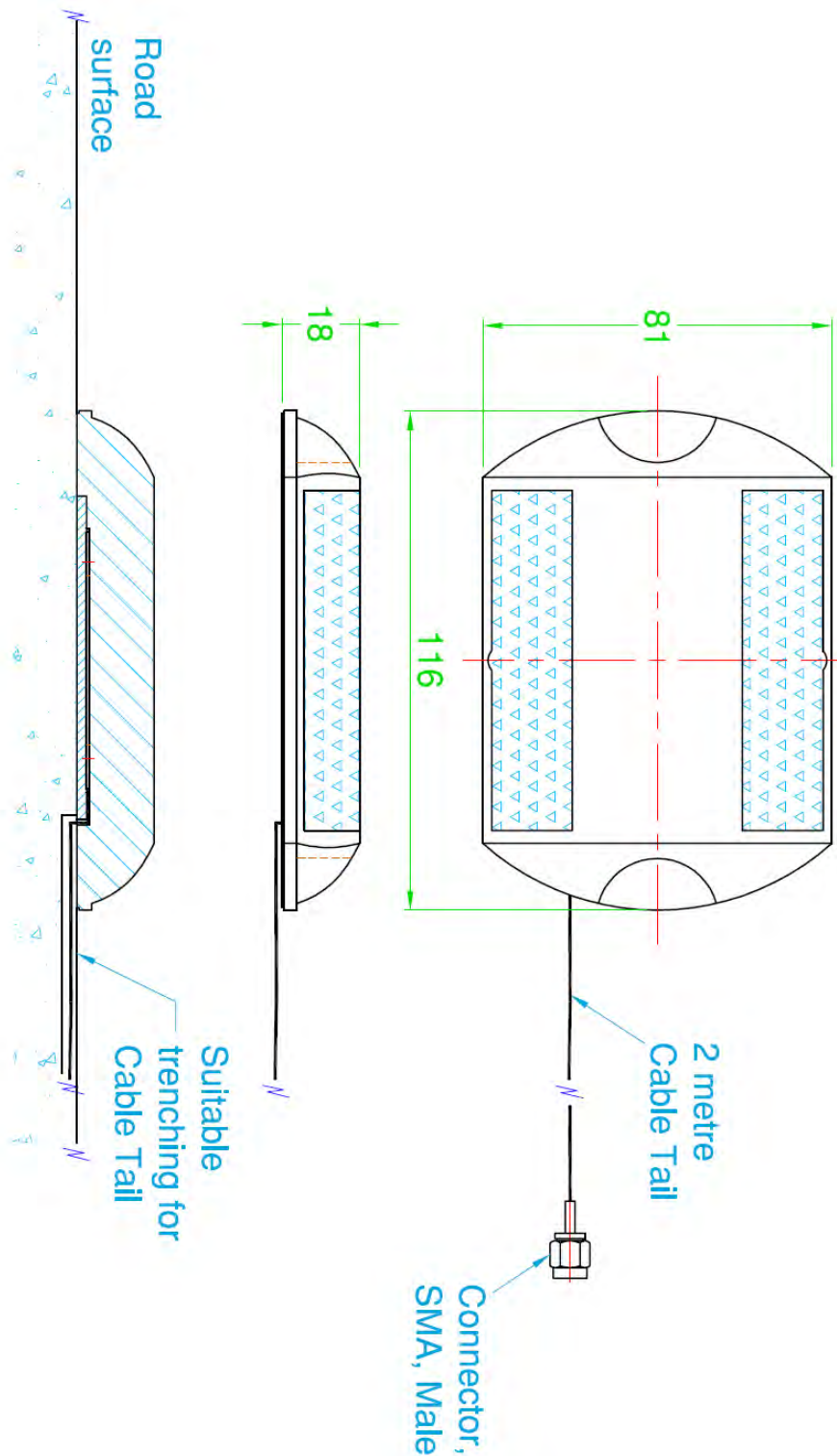
Colours available	Red, white or yellow - or specify requirements
Construction	High impact PVC , FR4 PCB,
Frequency range	915 MHz - ISM, IoT and LoRa compatible and 2.4 GHz - WiFi/WLAN
Tuning	Factory
Gain	3 dBd
Maximum power	10 Watts
Impedance - nominal	50 Ohms
DC grounding	Yes
Polarisation	Vertical
Connector	SMA male fitted as standard - or specify requirements
Cable	2.0 metres H100 side exits from PVC or specify length requirements
Height	18mm
Weight	250grams
Installation requirements	4mm x 4mm trench for coaxial cable clearance



ZRPM

Road embedded low profile data antenna

ISM 915 MHz and ISM/WiFi 2.4 GHz





ZAW-9-LTE

Low profile radome enclosed antenna - M.I.M.O. capable

L1 GPS/GLONASS, 4G LTE/4G/3G and WiFi/WLAN



The ZAW-9-LTE is designed and manufactured for L1 GPS & GLONASS, 4G LTE (can be specified M.I.M.O), 4G, 3G and WiFi/WLAN applications all inside one low profile antenna suitable for A.V.L, fleet management, emergency services or any situation that requires a low profile, robust, all-in-one antenna.

M.I.M.O-diversity configuration, adaptors, connectors, patch leads and other installation accessories are all available separately.

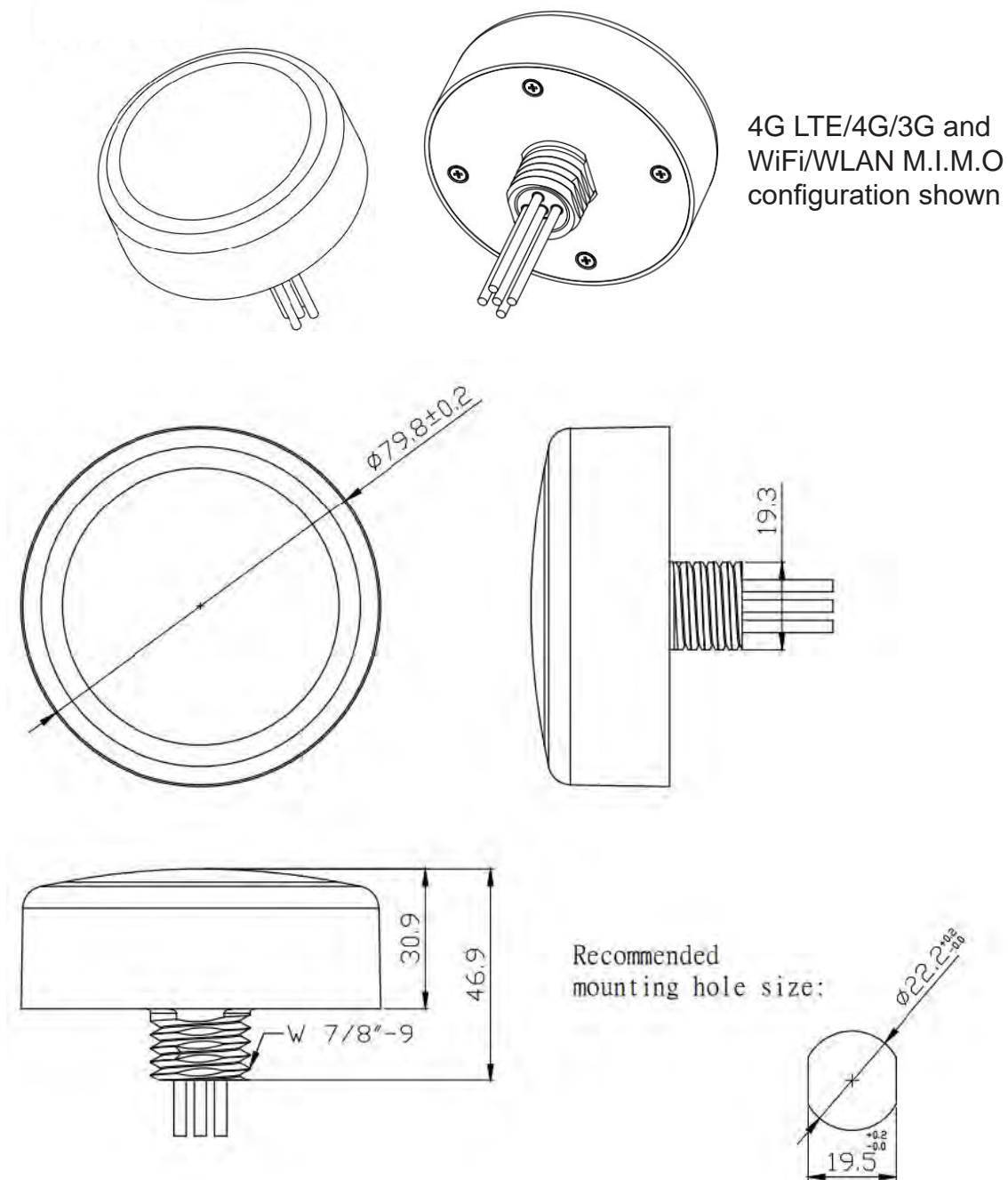


	GPS	Mobile Phone	WiFi/WLAN
Construction	Black ASA radome, zinc allow base, rubber gasket, cable assemblies and terminations		
Frequency range	1575.42 MHz - L1 GPS 1602 MHz - L1 GLONASS <u>Single lead only configuration</u>	698-960 MHz & 1710-2690 MHz 4G LTE & 4G/3G <u>Can be specified M.I.M.O - 2 leads</u>	2.4-2.5 GHz & 5.1-5.85 GHz WiFi/WLAN <u>Can be specified M.I.M.O - 2 leads</u>
Bandwidth	43 MHz at S11 < -10dB	Full frequency ranges stated	
Gain - peak	4.5 dBi	1.2 dB at 704-960 MHz 7.31 dB at 1710-2690 MHz	2.4 dB at 2.4-2.5 GHz 5.33 dB at 5.1-5.85 GHz
Polarisation	Right-hand circular	Linear, Vertical	
Noise figure	<1.5 maximum	N/A	
Attenuation	20dB min at FO ± 50 MHz	N/A	
VSWR	<1.5:1	<2:1 full frequency ranges	<2:1 full frequency ranges
Impedance	50 Ohms		
Power	DC Voltage: 2.7~5.0 Volts DC DC Current: 8~13mA	-	-
Connector	SMA male connector fitted as standard or specify requirements		
Cables	3 metres RG-174 cable per input (M.I.M.O will have 2 cables) or specify length requirements <u>Cables can be configured as required: 1-5 leads, example: 1 x GPS, 2 x Mobile Phone and 2 x WiFi</u>		
Dimensions	Diameter: 79.8mm, Height: 31mm - excluding threaded base		
Operating temperature	-35°C to +85°C		
Storage temperature	-40°C to +85°C		
Mounting hardware supplied	Mount using the attached rubber gasket, spring washer and nut using a minimum 22.2mm hole - see drawings below		
Mounting position recommended	Mount as high on your vehicle or structure as possible ensuring no obstructions such as vehicle or caravan roof, structures roof or on any flat horizontal surface/bracket - does not require a ground plane		

ZAW-9-LTE

Low profile radome enclosed antenna

L1 GPS/GLONASS, 4G LTE/4G/3G and WiFi/WLAN



SG700-4GX-TPM

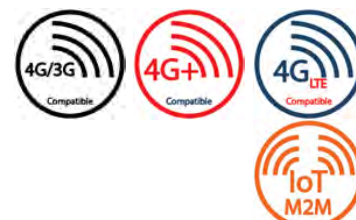
Threaded mount Mobile Phone/wireless data collinear

4G LTE 700-788 MHz and lower 4G/3G 820-890 MHz



The SG700-4GX-TPM is designed for maximum gain with an omnidirectional pattern for all 4G LTE network providers. The SG700-4GX-TPM also functions on the lower 4G/3G 820-890 MHz frequency range.

Mounting hardware, adaptors, water proofing and other installation accessories are available separately.

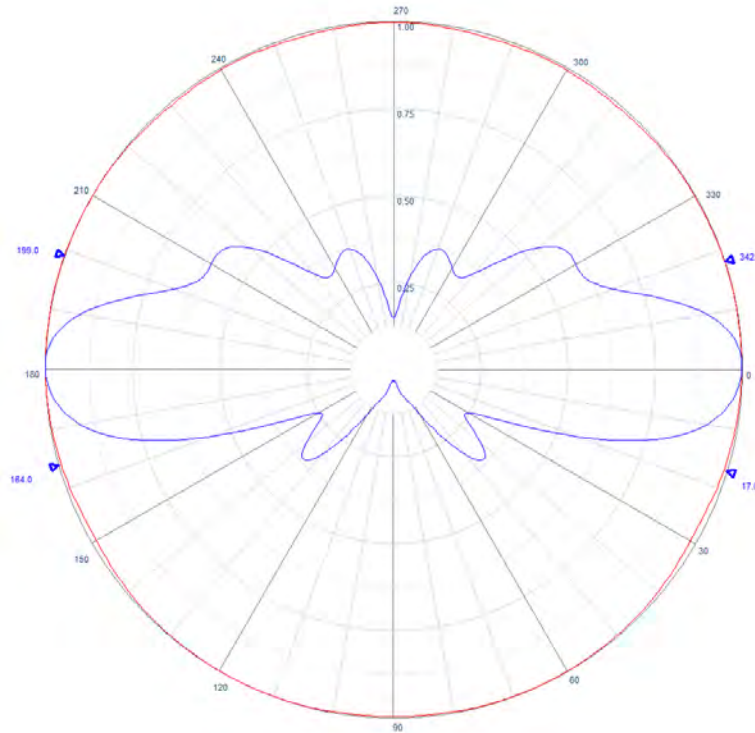


Construction	Black fibreglass radome, aluminium ferrule with mounting thread, securing nut and cable assembly
Frequency range	700-788 MHz - 4G LTE 820-890 MHz - lower 4G/3G, Telstra/Vodafone within Australia
Bandwidth	Full frequency ranges stated
Tuning	Factory
VSWR	700-788 MHz: <1.8:1 820-890 MHz: <3.8:1
Gain	5.1 dBi at 718-788 MHz and 4.0 dBi at 820-890 MHz
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
Cable	4.5 metres RG58 low loss solid core, side exit from ferrule
Connector	N-type female fitted to cable as standard or specify requirements
Height	900mm
Weight	800grams
Mounting hardware order separate	Bracket: BBM-SS series, MRM-SS, BBKB-B or GM1, GM2, GM6 Fascia bracket: A-6211 Mast mounting: A-4266 series
Mounting position recommended	Mount as high on your vehicle, structure, mast or tower as possible using the appropriate mounting bracket or a suitable minimum 13mm hole.
Installation tools required	1/2" or 13mm spanner for base nut securing

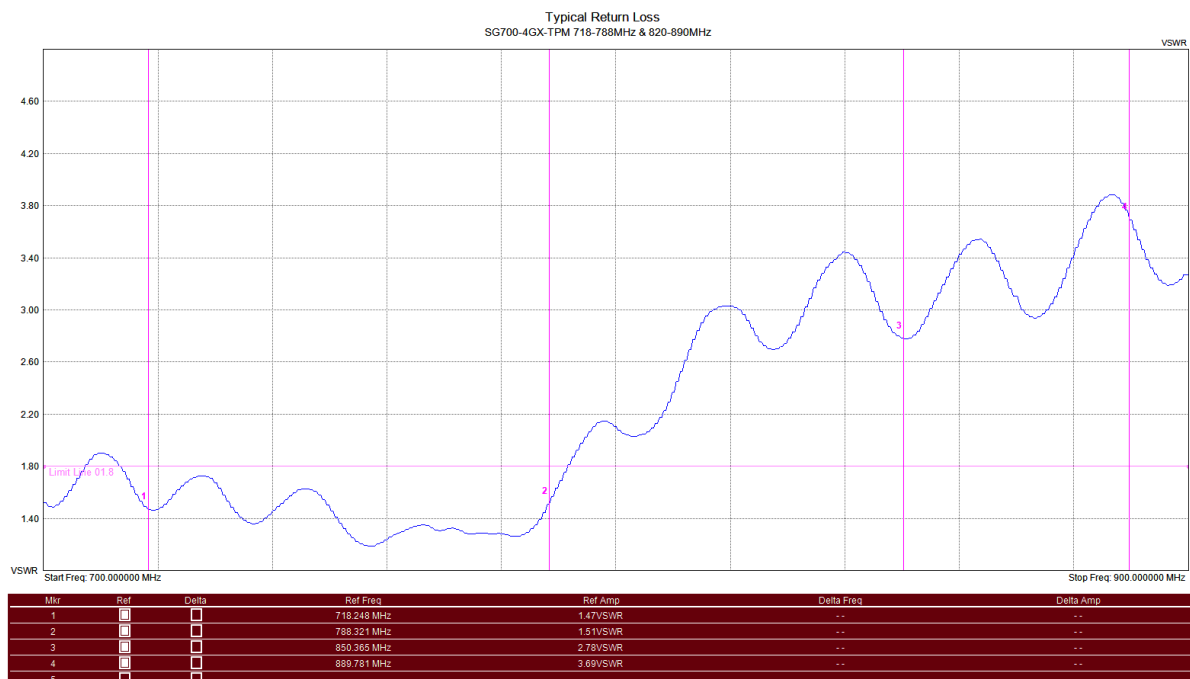


SG700-4GX-TPM

Threaded mount Mobile Phone/wireless data collinear
4G LTE 700-788 MHz and lower 4G/3G 820-890 MHz



Example radiation pattern



Typical Return Loss

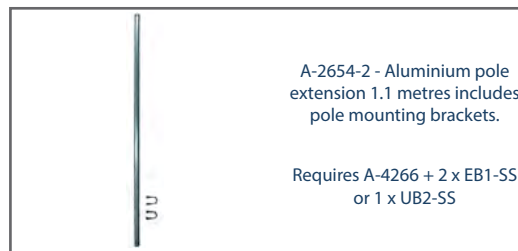
SG700-4GX-TPM

Threaded mount Mobile Phone/wireless data collinear

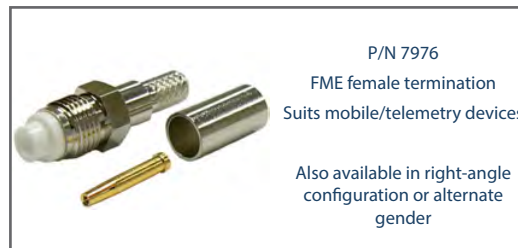
4G LTE 700-788 MHz and lower 4G/3G 820-890 MHz



Recommended alternate accessories



Typical alternate connectors



SG700-MMA

Omni-directional mast mount wireless data collinear

UHF / 4G LTE 700-900 MHz



The SG700-MMA super gain 4G LTE or UHF mast mount collinear offers good performance combined with our robust tried and tested ZCG quality SG series construction.

Suitable for low power omni-directional wireless data applications.

Mounting hardware, adaptors, bird-proofing and other installation accessories are all available separately.

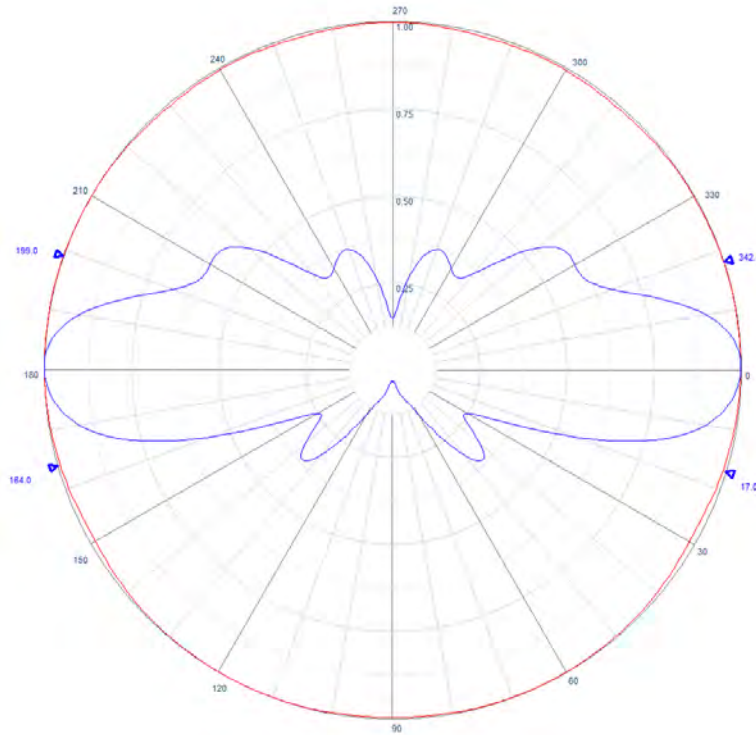
Construction	White fibreglass radome, aluminium ferrule and mast mount adaptor and cable assembly
Frequency range	700-900 MHz - UHF, including 4G LTE and lower 4G/3G
Bandwidth	Specify 50 MHz when ordering <small>For 4G LTE, specify - 703-748 MHz for device to tower or 758-788 MHz for tower to device</small>
Tuning	Factory
VSWR	<1.5:1 within specified 50 MHz
Gain	6.2 dBi
Maximum power	30 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
E Plane	32°
Cable	4.5 metres MIL-SPEC RG58 low loss, solid core, side exit from ferrule
Connector	BNC male plug fitted as standard or specify requirements
Height	900mm
Weight	900grams
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS
Mounting position recommended	Mount as high on your structure, pole or tower as possible using the appropriate mounting clamp/s.





SG700-MMA

Omni-directional mast mount wireless data collinear
UHF / 4G LTE 700-900 MHz

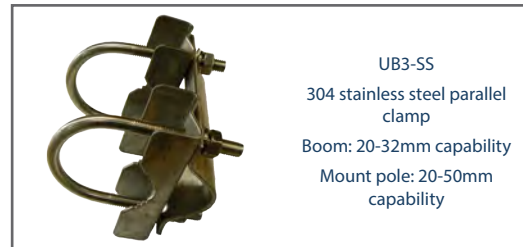
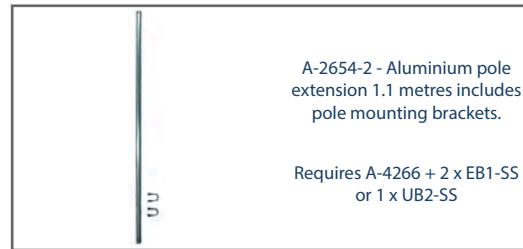


Example radiation pattern

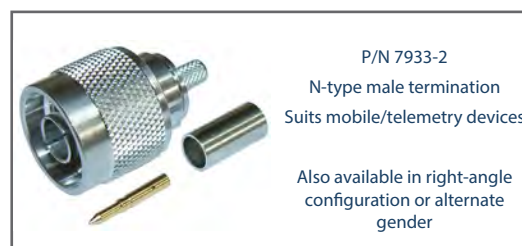
SG700-MMA

Omni-directional mast mount wireless data collinear

UHF / 4G LTE 700-900 MHz



Typical alternate connectors





SGDB-TPM series

Mobile phone/wireless data improvement
Dualband 4G/3G 825-960 MHz & 1710-2190 MHz



At some remote locations, inside a building or whilst travelling, mobile phone and wireless data reception can often be poor, the SGDB-TPM is an adaptable antenna for mounting outdoors at your home or office.

Please note: the SGDB-TPM series will not transmit/receive signal where no cellular infrastructure is present, please check network coverage.

Mounting hardware, adaptors, bird-proofing and other installation accessories are all available separately.



Radome colour	Black SGDB-B-TPM	White SGDB-W-TPM*	All Black SGDB-BLKR-TPM*
Construction	Coloured fibreglass radome, aluminium mount ferrule, external cable assembly and termination		Black fibreglass radome, black ferrule and external cable
Frequency range	825-960 MHz & 1710-2190 MHz - dualband 4G/3G		
Bandwidth	Full frequency ranges stated		
VSWR	Average: <1.6:1, Maximum <3:1 VSWR		
Tuning	Factory		
Gain	6.2 dBi at 825-960 MHz and 3 dBi at 1710-2190 MHz		
Maximum power	30 Watts		
Impedance	50 Ohms		
Polarisation	Vertical		
H Plane	360° omnidirectional		
E Plane	32°		
Cable	5 metres RG58 low loss, solid core - side exit from ferrule		
Connector	FME female fitted to cable as standard or specify requirements		
Height	800mm		
Weight	700grams		
Mounting hardware order separate	Bracket: GM1, GM2, GM6 or A-6211 Mast Mount: A-4266 series - using 2 x EB1-SS or 1 x UB3-SS Magnetic base: MGB Or any minimum 13mm hole		
Mounting position recommended	As high on your structure/tower or building as possible, using the appropriate mounting hardware.		
Installation tools required	19mm or 3/4" spanner for securing nut		



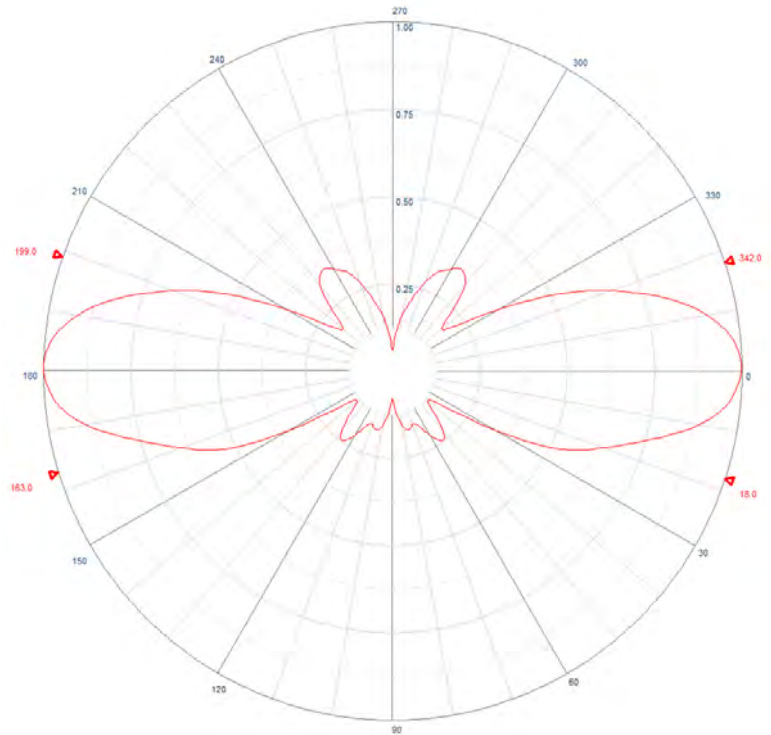
Threaded ferrule mount with side exit cable

FME female fitted as standard or specify requirements



SGDB-TPM series

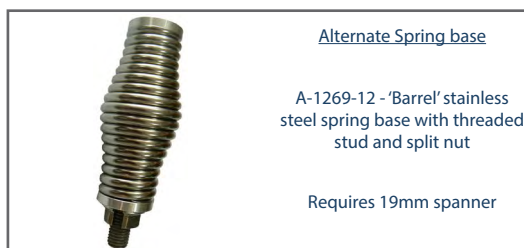
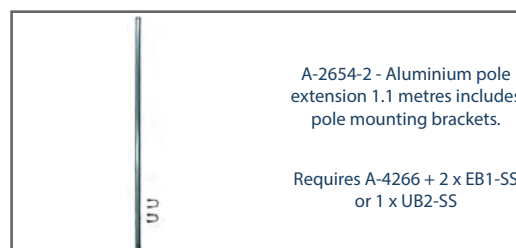
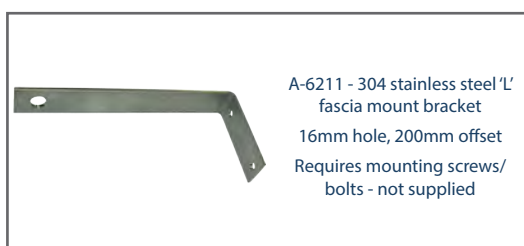
Mobile phone/wireless data improvement
Dualband 4G/3G 825-960 MHz & 1710-2190 MHz



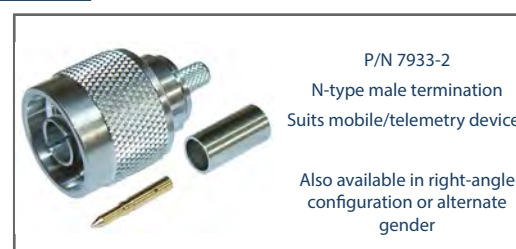
Example radiation pattern

SGDB-TPM series

Mobile phone/wireless data improvement
Dualband 4G/3G 825-960 MHz & 1710-2190 MHz



Typical alternate connectors





SGDB-TPM-BE series

Mobile phone/wireless data improvement

Dualband 4G/3G 825-960 MHz & 1710-2190MHz



At some remote locations or inside a building, mobile phone and wireless data reception can often be poor due to internal construction such as iron rebar/ metallic tinted glass. The SGDB-TPM-BE is an ideal external adaptable antenna for mounting at your home or office to improve reception/ data transfer.

Please note: the SGDB-TPM-BE series will not transmit/receive signal where no cellular infrastructure is present, please check network coverage.

Mounting hardware, adaptors, bird-proofing and other installation accessories are all available separately.



Construction	Black fibreglass radome, aluminium mount ferrule and bottom exit cable assembly - white radome on request
Frequency range	825-960 MHz & 1710-2190 MHz - dualband 4G/3G
Bandwidth	Full frequency ranges stated
VSWR	<1.6:1
Tuning	Factory
Gain	6.2 dBi at 825-960 MHz and 3 dBi at 1710-2190 MHz
Maximum power	30 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
E Plane	32°
Cable	10 metres RG58 low loss, solid core - bottom exit from ferrule
Connector	SMA male fitted to cable as standard - or specify
Height	800mm
Weight	1.0kg
Mounting hardware order separate	Bracket: GM1, GM2, GM6 or A-6211 Magnetic base: MGB - can be fitted in factory, request Mast mount adaptor: 4266-7 (to be fitted in factory) + 2 x EB1-SS Or any minimum 13mm hole
Mounting position recommended	As high on your structure/tower or building as possible, using the appropriate mounting hardware.
Installation tools required	19mm or 3/4" spanner for securing nut

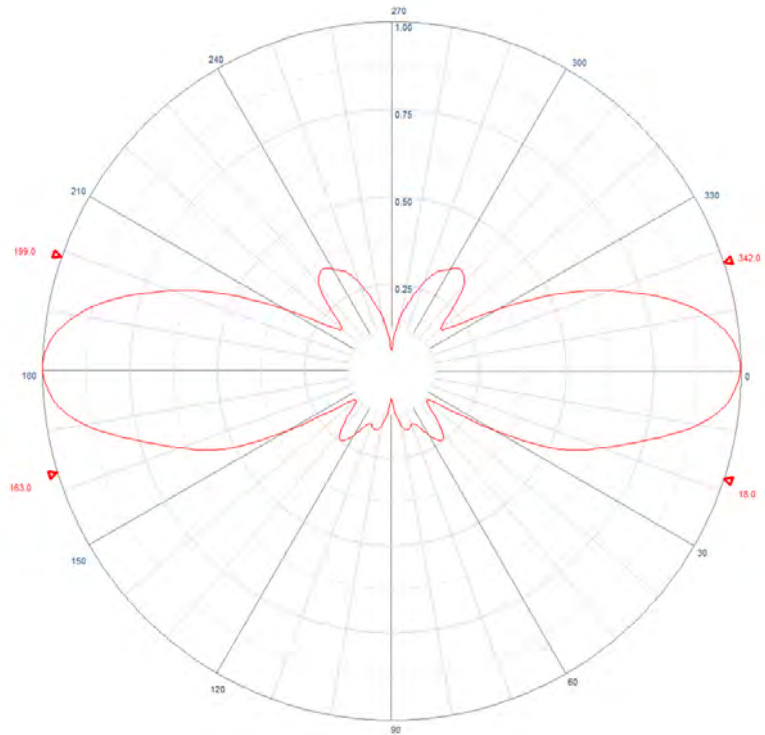


Cable bottom exits from ferrule.



SGDB-TPM-BE series

Mobile phone/wireless data improvement
Dualband 4G/3G 825-960 MHz & 1710-2190MHz

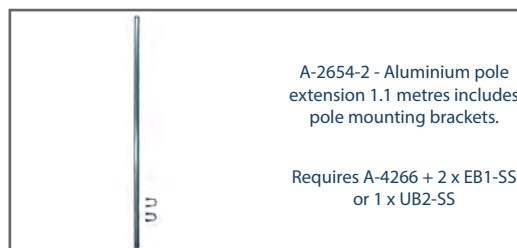
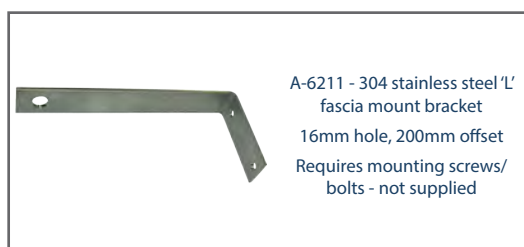
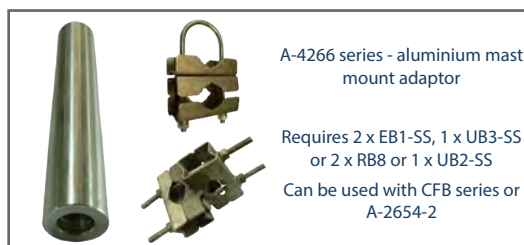


Example radiation pattern

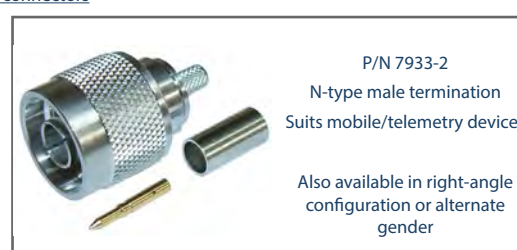
SGDB-TPM-BE series

Mobile phone/wireless data improvement

Dualband 4G/3G 825-960 MHz & 1710-2190MHz



Typical alternate connectors



SGDB-MM-N

**Mast mount mobile phone/wireless data improvement collinear
Dualband 4G/3G 825-960 MHz & 1710-2190 MHz**



The SGDB-MM-N is a mast mount collinear, designed and manufactured to improve your mobile phone and wireless data receive and transmit.

Please note: The SGDB-MM-N will not transmit or receive signal where no telecommunications infrastructure is present. Please check your network coverage map for compatibility.

Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.



Construction	White parallel fibreglass radome, stainless steel mount section and external termination
Frequency range	825-960 MHz & 1710-2190 MHz - dualband 4G/3G
Bandwidth	Full frequency ranges stated
VSWR	<1.6:1 at centre and <2.1:1 at edges
Tuning	Factory
Gain	6.2 dBi at 825-960 MHz and 3 dBi at 1710-2190 MHz
Maximum power	30 Watts
Impedance	50 Ohms
Polarisation	Vertical
DC grounding	Yes
H Plane	360° omnidirectional
E Plane	32°
Connector	N-type female in base of mount section
Height	1.4 metres
Weight	1.2kg
Mount section	Height: 400mm, Diameter: 22.2mm - 304 stainless steel
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS
Mounting position recommended	Mount as high on your structure ,mast or tower using the appropriate mounting clamp/s.

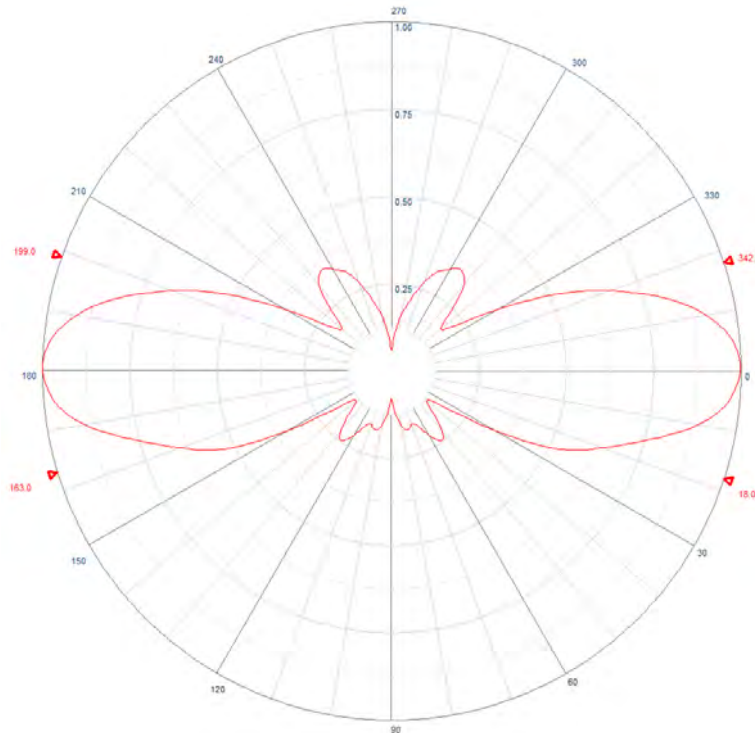


N-type female in base of mount section



SGDB-MM-N

Mast mount mobile phone/wireless data improvement collinear
Dualband 4G/3G 825-960 MHz & 1710-2190 MHz



Example radiation pattern

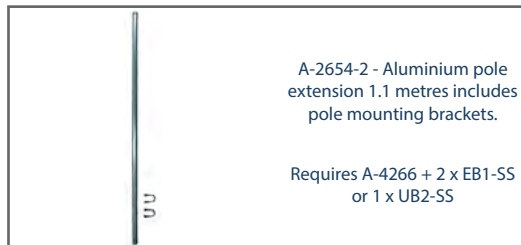
SGDB-MM-N

Mast mount mobile phone/wireless data improvement collinear
Dualband 4G/3G 825-960 MHz & 1710-2190 MHz



CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS



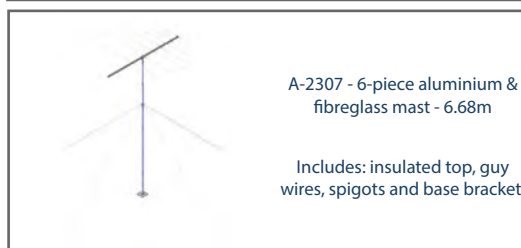
A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.

Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS



SFB Series - galvanised steel pole extension 0.9-2.0 metres
Roof or overhang mounting

Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS



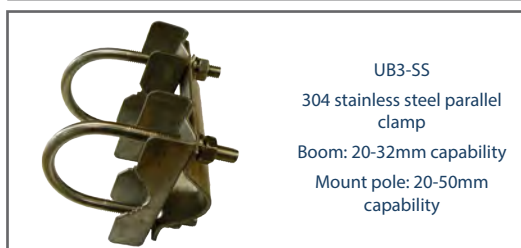
A-2307 - 6-piece aluminium & fibreglass mast - 6.68m

Includes: insulated top, guy wires, spigots and base bracket.



EB1-SS - requires 2
304 stainless steel parallel clamp

Boom: 20-40mm capability
Mount pole: 25-45mm capability



UB3-SS
304 stainless steel parallel clamp

Boom: 20-32mm capability
Mount pole: 20-50mm capability



RB8 - requires 2
Galvanised steel right-angle clamp

Boom: 20-40mm capability
Mount pole: 20-40mm capability



UB2-SS
304 stainless steel right-angle clamp

Boom: 20-50mm capability
Mount pole: 20-50mm capability

Suitable feeder coaxial cable and connectors



MIL-SPEC RG213 stranded conductor, solid PE dielectric coaxial cable
P/N 7800

Available in 100m, 300m roll or alternatively request a custom cable assembly



N-type male crimp connector for MIL-SPEC RG213

P/N 7937

Tri-metal plated



RU400 Solid copper conductor, low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(™ times microwave)
P/N 7890

Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU400 low loss, solid conductor

P/N 8226

Tri-metal plated



SGDB-T10

Mast Mount Mobile Phone/Wireless Data Improvement

Dualband 4G/3G 825-960 MHz & 1710-2190 MHz



The SGDB-T10 super gain telemetry antenna is a popular choice to improve your mobile phone or wireless data reception.

The SGDB-T10 is different from the standard SGDB due to the capability of mast mounting to a pole or vertical mast and the cable exiting the bottom of the mounting section.

Mounting hardware, adaptors, connectors and other installation accessories are all available separately.

Construction	Black fibreglass radome, aluminium ferrule and mast mount, cable assembly and termination
Frequency range	825-960 MHz & 1710-2190 MHz - dualband 4G/3G
Bandwidth	Full frequency ranges stated
VSWR	<1.6:1
Tuning	Factory
Gain	6.2 dBi at 825-960 MHz and 3 dBi at 1710-2190 MHz
Maximum power	30 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
E Plane	32°
Cable	10 metres RG58 low loss, solid core - bottom exit from mount section
Connector	Gold plated SMA male fitted as standard or specify requirements
Height	900mm
Weight	900grams
Mount section	150mm x 24mm - machined aluminium
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS
Mounting position recommended	Mount as high on your structure, mast or tower using the appropriate mounting clamp/s.



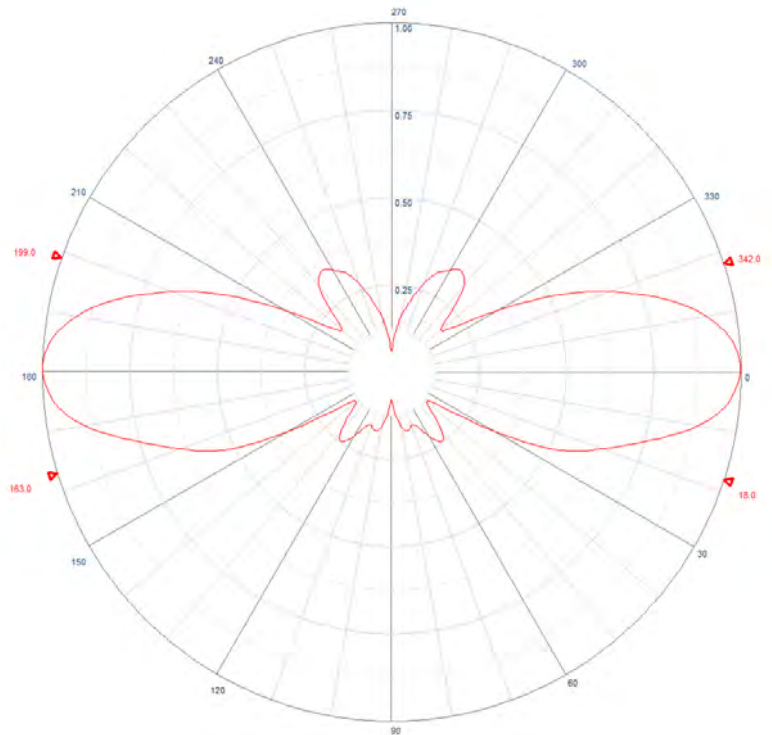
Gold plated SMA male fitted as standard or specify requirements



SGDB-T10

Mast Mount Mobile Phone/Wireless Data Improvement

Dualband 4G/3G 825-960 MHz & 1710-2190 MHz

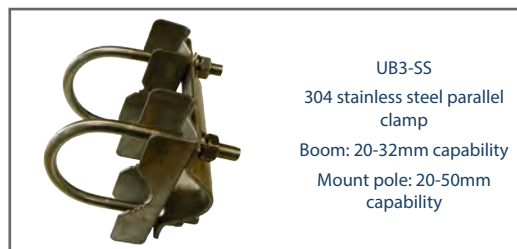
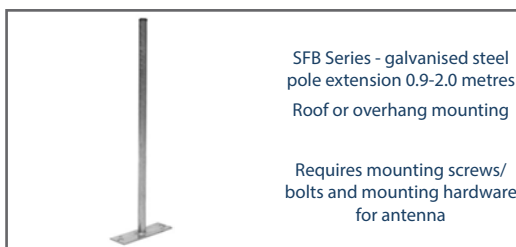
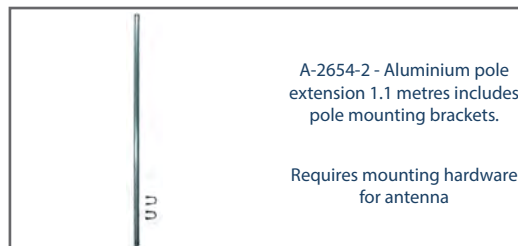


Example radiation pattern

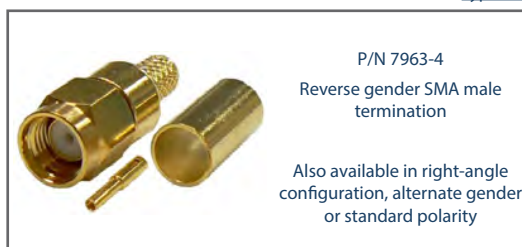
SGDB-T10

Mast Mount Mobile Phone/Wireless Data Improvement

Dualband 4G/3G 825-960 MHz & 1710-2190 MHz



Typical alternate connectors



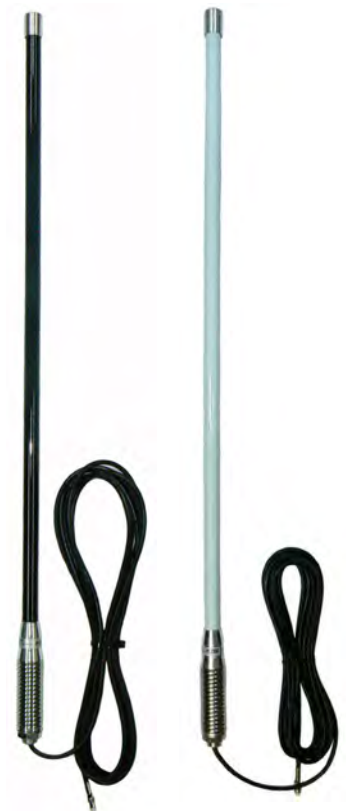
SGLDB

Light-duty dualband parallel spring base collinear All networks 4G/3G 825-960 MHz & 1710-2190 MHz

The SGLDB series of super gain, lightweight mobile phone network antenna offers fine performance combined with our robust tried and tested ZCG quality construction.

Mounting hardware, adaptors, connectors and other installation accessories are all available separately.

Order codes	SGLDB-B - Black radome	SGLDB-W - White radome
Construction	Parallel fibreglass radome, aluminium ferrule, stainless steel parallel spring, external coaxial cable and termination	
Frequency range	825-960 MHz and 1710-2190 MHz - dualband 4G/3G Telstra, Optus & VHA within Australia	
Bandwidth	Full frequency range	
VSWR	<1.6:1	
Tuning	Factory	
Gain	6.2 dBi 825-960 MHz and 3 dBi 1710-2190 MHz	
Maximum power	30 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omnidirectional	
Cable	5 metres RG58 low loss, solid core, bottom exit from spring base	
Connector	FME female fitted to cable - for ease of installation	
Height	750mm	
Weight	650grams	
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6, A-6211 or ATLM	
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 16mm hole or appropriate bracket with a 16mm hole	
Installation tools required	22mm spanner for nut securing	



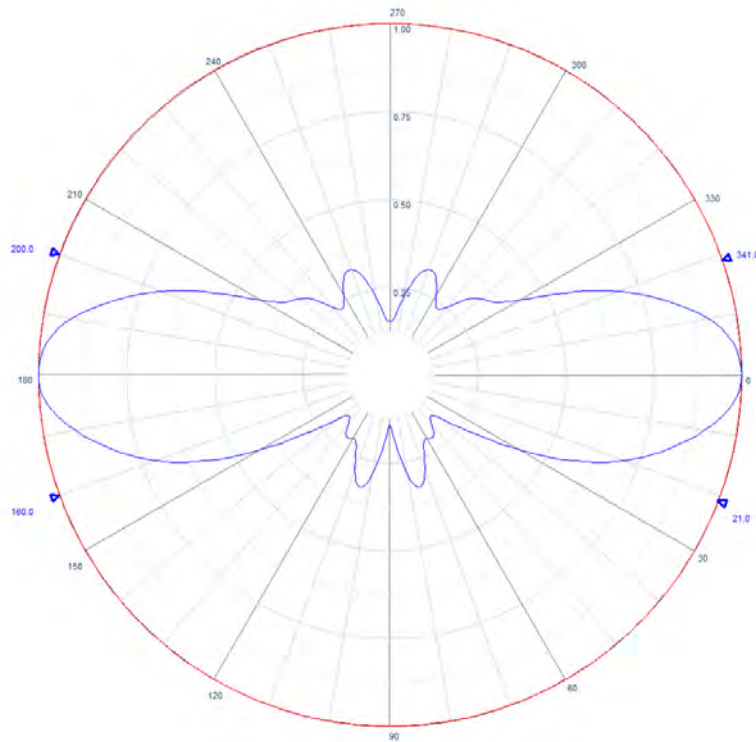
Light to medium-duty parallel spring to maintain vertical polarisation



FME female fitted to cable as standard or specify requirements

SGLDB

Light-duty dualband parallel spring base collinear
All networks 4G/3G 825-960 MHz & 1710-2190 MHz



Example radiation pattern

SGLDB

Light-duty dualband parallel spring base collinear
All networks 4G/3G 825-960 MHz & 1710-2190 MHz



BBM-SS - wrap around bull bar mount, up to 50mm diameter bull bar tube

16mm mount hole

Requires 10mm spanner



BBML-SS - wrap around extra large bull bar mount, up to 65mm diameter bull bar tube

16mm mount hole

Requires 10mm spanner



BBMXL-SS - wrap around extra large bull bar mount, up to 76mm diameter bull bar tube

16mm mount hole

Requires 10mm spanner



BBKB-B - Rhino knock down antenna mount, powder coated black

17mm mount hole with cable slot



ATLM series - Adjustable bonnet, boot and door jam mount. 360 rotational and 140 degree adjustment

16mm mount hole

Black or Chrome

Includes 5mm and 2mm allen keys



GM1 - 304 stainless steel 'L' mount bracket

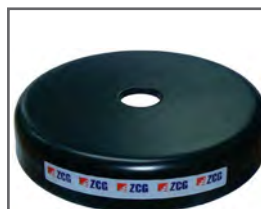
16mm mount hole



MRM-SS - 304 stainless steel clamp style mirror mount

16mm mount hole

Requires 10mm spanner



MGB - Black powdercoated magnetic base mount with scratch reduction pad. 20kg pull force

Can be fitted during manufacture

16mm mount hole and 5.5mm cable hole



A-6211 - 304 stainless steel 'L' fascia mount bracket

16mm hole, 200mm offset

Requires mounting screws/ bolts - not supplied

Typical alternate Connectors



SMA male termination
Suits mobile device or CEL-FI Go device.

Also available in right-angle configuration, alternate gender or reverse polarity



N-type male termination
Suits telemetry devices

Also available in right-angle configuration or alternate gender

SGLWB series

Multiband mobile phone improvement & wireless data

All networks 4G LTE & 4G/3G 700-960 MHz & 1710-2700 MHz



The SGLWB series of light-duty all mobile phone networks and wireless data antenna offers fine performance combined with our robust tried and tested ZCG quality construction.

The SGLWB series are identical in appearance to the rest of ZCG's SGL series vehicle mount antennas

Mounting hardware, adaptors, connectors and other installation accessories are all available separately.



Order code	SGLWB-B - black radome, polished stainless steel parallel spring SGLWB-W - white radome, polished stainless steel parallel spring
Construction	coloured fibreglass radome, aluminium mount ferrule, parallel spring base, external coaxial cable and termination
Frequency range	700-960 MHz and 1710-2700 MHz - 4GLTE & 4G/3G
Bandwidth	Full frequency ranges stated
VSWR	<2.5:1
Tuning	Factory
Gain	2.1 dBi
Maximum power	10 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
Cable	5 metres RG58 low loss, solid core, bottom exit from spring base, or specify requirements
Connector	FME female fitted to cable as standard or specify requirements
Height	750mm
Weight	560grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6, A-6211 or ATLM
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 16mm hole or appropriate bracket with a 16mm hole
Installation tools required	22mm spanner for base nut securing



Light to medium-duty parallel spring to maintain vertical polarisation



FME female fitted to cable as standard or specify requirements

SGLWB series

Multiband mobile phone improvement & wireless data

All networks 4G LTE & 4G/3G 700-960MHz & 1710-2700MHz



Typical alternate Connectors





CM1600 series

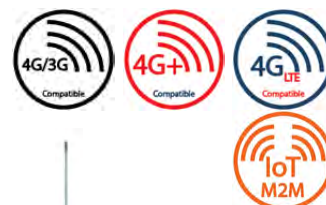
All Networks 4G LTE or lower 4G/3G

700-788 MHz, 825-890 MHz or 890-960 MHz



These mast mount models offer the maximum gain and reception range practical in a omnidirectional, mobile phone or wireless data fixed position antenna.

Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.



	CM1600-4GX	CM1600AM	CMG1600AM-AC
Construction	White fibreglass radome, 304 stainless steel mount section, aluminium cap (-AC model only) and bottom exit chrome termination		
Frequency range	All networks 4G LTE 700-788 MHz	Lower 4G/3G 825-890 MHz Telstra within Australia	Lower 4G/3G 890MHz-960 MHz Optus & Vodafone within Australia
Bandwidth	Full frequency range stated		
VSWR	<1.6:1		
Tuning	Factory		
Gain	8.1 dBi		
Maximum power	20 Watts		
Impedance	50 Ohms		
DC grounding	Yes		
Polarisation	Vertical		
H Plane	360° omni-directional		
E Plane	14°	14°	14°
Connector	N-type female jack connector in base of mount section - no cable		
Height	1.85 metres	2.4 metres	2.4 metres
Weight	730grams	700grams	690 grams
Mount section	420mm x 20mm - 304 stainless steel		
Mounting hardware order separate	Parallel mast mounting: 2 x EB1-SS or 1 x UB3-SS Right-angle mast mounting: 2 x RB8 or 1 x UB2-SS Side/Wall Mounting: 2 x NSM-B20M		
Mounting position recommended	Mount as high on your mast/tower or structure using the appropriate clamp/s to achieve stated levels/performance.		



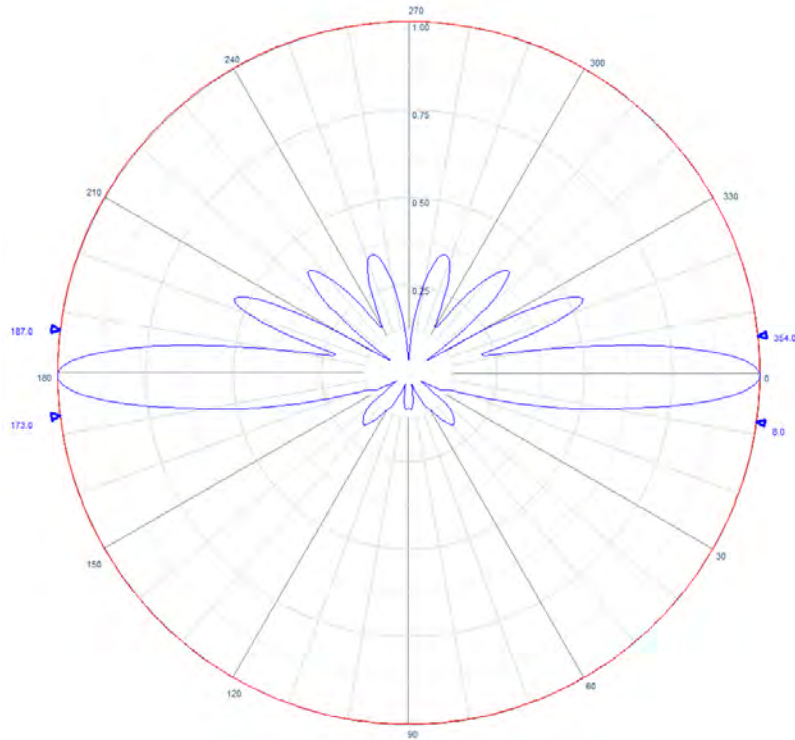
N-type female termination at base of mount section



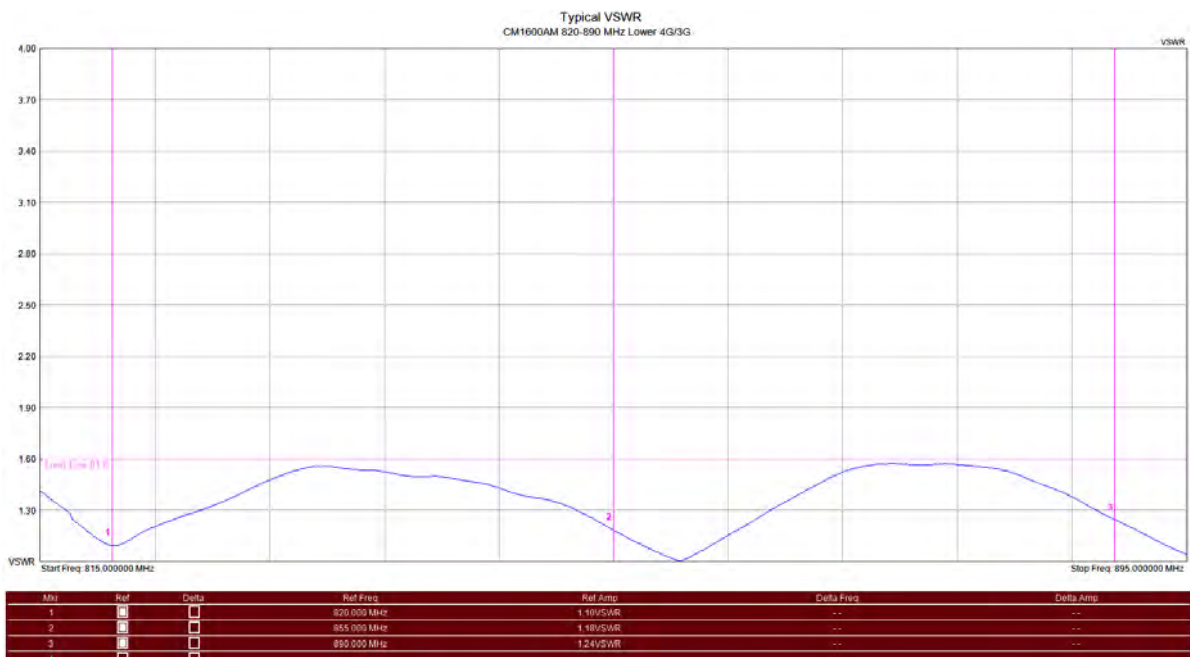
CM1600 series

All Networks 4G LTE or lower 4G/3G

700-788 MHz, 825-890 MHz or 890-960 MHz



Example radiation pattern



Typical VSWR - CM1600AM

CM1600 series

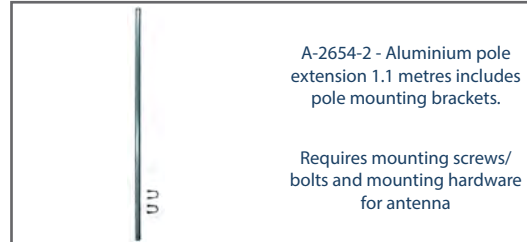
All Networks 4G LTE or lower 4G/3G

700-788 MHz, 825-890 MHz or 890-960 MHz



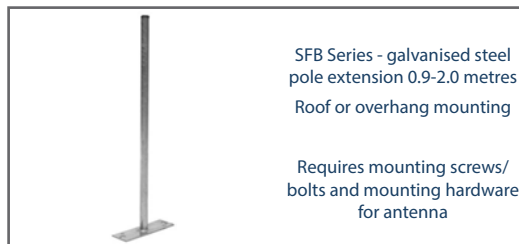
CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires mounting screws/ bolts and mounting hardware for antenna



A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.

Requires mounting screws/ bolts and mounting hardware for antenna



SFB Series - galvanised steel pole extension 0.9-2.0 metres
Roof or overhang mounting

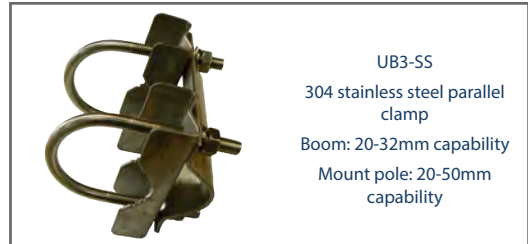
Requires mounting screws/ bolts and mounting hardware for antenna



NSM-B20G
Toughened white nylon wall mount
Boom: 20mm capability
13mm mount hole required



EB1-SS - requires 2
304 stainless steel parallel clamp
Boom: 20-40mm capability
Mount pole: 25-45mm capability



UB3-SS
304 stainless steel parallel clamp
Boom: 20-32mm capability
Mount pole: 20-50mm capability



RB8
Galvanised steel steel right-angle clamp
Boom: 20-50mm capability
Mount pole: 20-50mm capability



UB2-SS
304 stainless steel steel right-angle clamp
Boom: 20-50mm capability
Mount pole: 20-50mm capability

Suitable feeder coaxial cable and connectors



RU400 Solid copper conductor, low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(¹⁰⁰ times microwave)
P/N 7890
Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU400 low loss, solid conductor
P/N 8226
Tri-metal plated



RU600 Solid copper conductor, low loss coaxial cable
LMR-600™ equivalent
(¹⁰⁰ times microwave)
P/N 7890-2
Available in 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU600 low loss, solid conductor
P/N 8226-2
Tri-metal plated



SG1885-TPM

Omni-directional wireless data collinear

UHF 1.885-1.905 GHz



The SG1885-TPM omni-directional data link collinear is specifically designed and manufactured for use within the fixed mobile/UHF 1.885-1.905 GHz range.

The SG1885-TPM is ideal for external mounting to a mast, building or alternatively onto a vehicle using a mounting spring.

Mounting hardware, coaxial feeder cable, adaptors and other installation accessories are all available separately.

Construction	White fibreglass radome, aluminium mount ferrule and cable assembly
Frequency range	1.885-1.905 GHz - UHF & Wireless broadband compatible
Bandwidth	Full frequency range stated - 20 MHz
VSWR	<1.5:1
Tuning	Factory
Gain	5.14 dBi
Impedance - nominal	50 Ohms
Maximum power	10 Watts
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional
Cable	3 metres RG58 low loss, solid core, side exit from ferrule
Connector	TNC male fitted as standard, or specify requirements
Height	500mm
Weight	350grams
Mounting hardware order separate	Bracket: GM1, GM2, GM6 or A-6211 Mount: ATLM series, BBM-SS, MRM-SS or BBKB-B Alternate spring mounting: A-1269, A-1269-14 or A-1270
Mounting position recommended	Mount as high on your structure, mast or tower as possible using the appropriate minimum 13mm hole or mounting hardware with 13mm hole.
Installation tools required	19mm or 3/4" spanner for nut securing

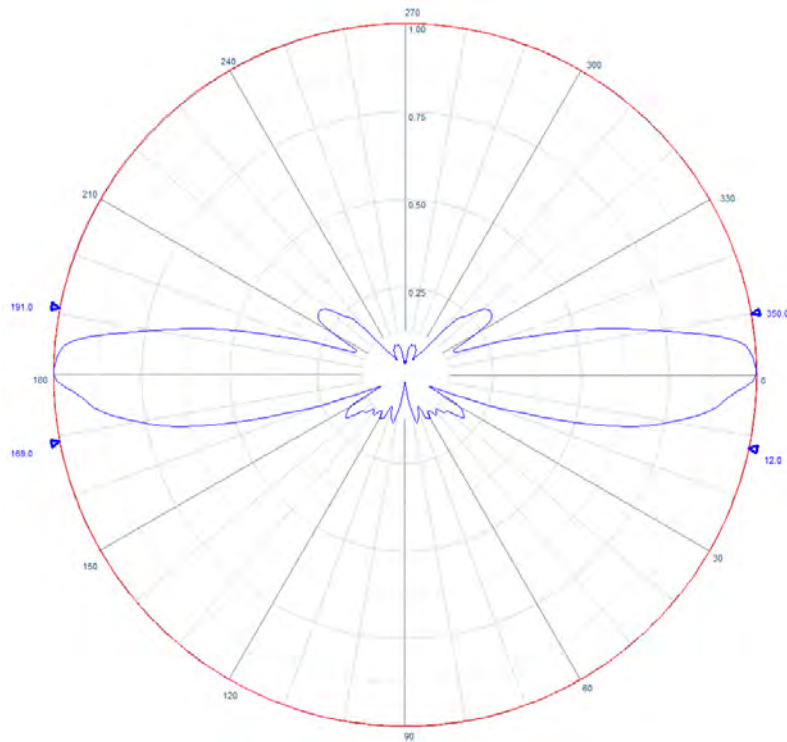


TNC male fitted as standard or specify requirements.

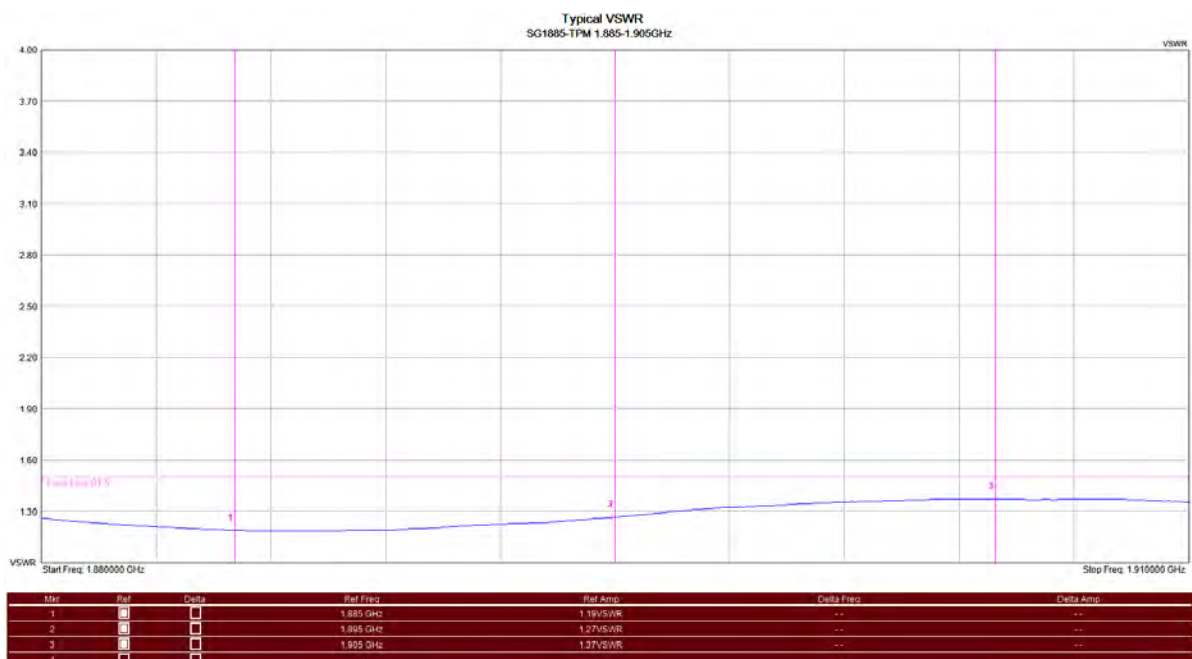
SG1885-TPM

Omni-directional wireless data collinear

UHF 1.885-1.905 GHz



Example radiation pattern

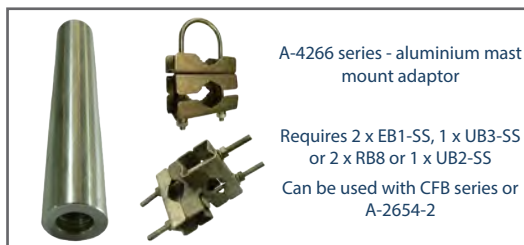


Typical VSWR

SG1885-TPM

Omni-directional wireless data collinear

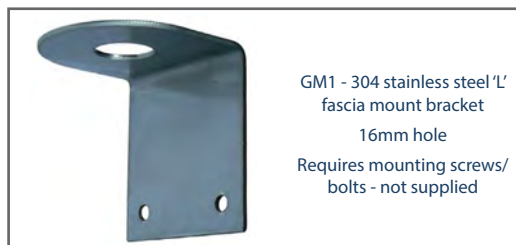
UHF 1.885-1.905 GHz



A-4266 series - aluminium mast mount adaptor

Requires 2 x EB1-SS, 1 x UB3-SS or 2 x RB8 or 1 x UB2-SS

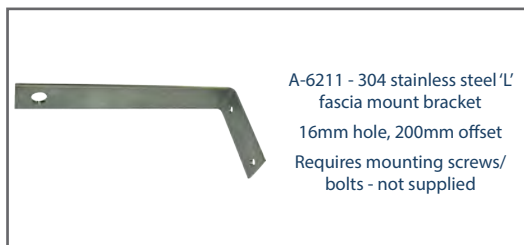
Can be used with CFB series or A-2654-2



GM1 - 304 stainless steel 'L' fascia mount bracket

16mm hole

Requires mounting screws/ bolts - not supplied



A-6211 - 304 stainless steel 'L' fascia mount bracket

16mm hole, 200mm offset

Requires mounting screws/ bolts - not supplied



MGB

Powdercoated black internal magnet mount base

16mm hole

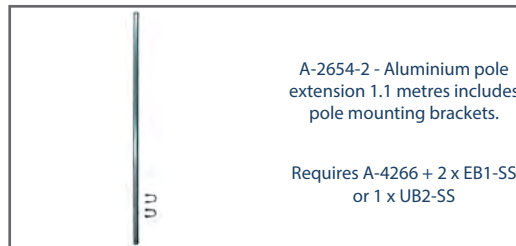
105mm diameter

includes scratch reduction pad on base



CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS



A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.

Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS



Alternate Spring base

A-1269 - 'Barrel' stainless steel spring base with 1/2" bolt and spring washer

Requires 19mm spanner



Alternate Spring base

A-1270 - Parallel heavy-duty mount spring, includes base mount bolt

Requires 19mm spanner



Alternate Spring base

A-1269-12 - 'Barrel' stainless steel spring base with threaded stud and split nut

Requires 19mm spanner



Alternate Spring base

A-1269-14 - 'Barrel' stainless steel spring base with 50mm base extension. Suitable for behind bull bar mounting or wing mirror bracket mounting

Requires 19mm spanner

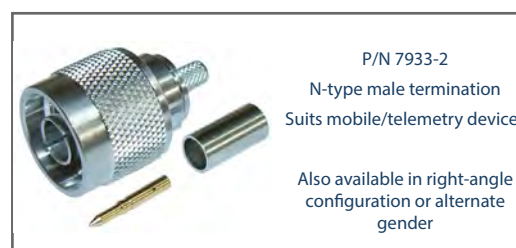
Typical alternate connectors



P/N 7963-7

SMA male termination
Suits mobile/telemetry devices.

Also available in right-angle configuration, alternate gender or reverse polarity



P/N 7933-2

N-type male termination
Suits mobile/telemetry devices

Also available in right-angle configuration or alternate gender



SGL1800 Series

Upper 4G/3G or wireless broadband spring base collinear

UHF 1.71-1.88 GHz



The SGL1800 series is specifically designed for use within the upper 4G/3G mobile phone band 1710-1880 MHz or for wireless broadband applications. The SGL1800 offers consistent and dependable performance with maximum efficiency, particularly where signal strength is poor, all within our tried, tested and trusted SG construction.

Mounting hardware, adaptors, water-proofing and other installation accessories are all available separately.

Order code	SGL1800-B - Black radome SGL1800-W - White radome
Construction	Parallel fibreglass radome, aluminium ferrule and cap, parallel stainless steel spring base, bottom exit external coaxial cable and termination
Frequency range	1.71-1.88 GHz - Upper 4G, 3G or Wireless broadband
Bandwidth	Full frequency range stated - 170 MHz
VSWR	<1.6:1
Tuning	Factory
Gain	6.2 dBi
Maximum power	30 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
Cable	5 metres RG58 low loss, solid core bottom exit from spring base
Connector	SMA male fitted to cable as standard or specify requirement
Height	480mm
Weight	600grams
Mounting hardware	Any bracket/hole with minimum 16mm hole such as GM1, GM6, BBM-SS or A-6411
Mounting position recommended	Vehicle guard, boot, bull bar or truck mirror using the appropriate bracket.
Installation tools required	22mm spanner for nut securing



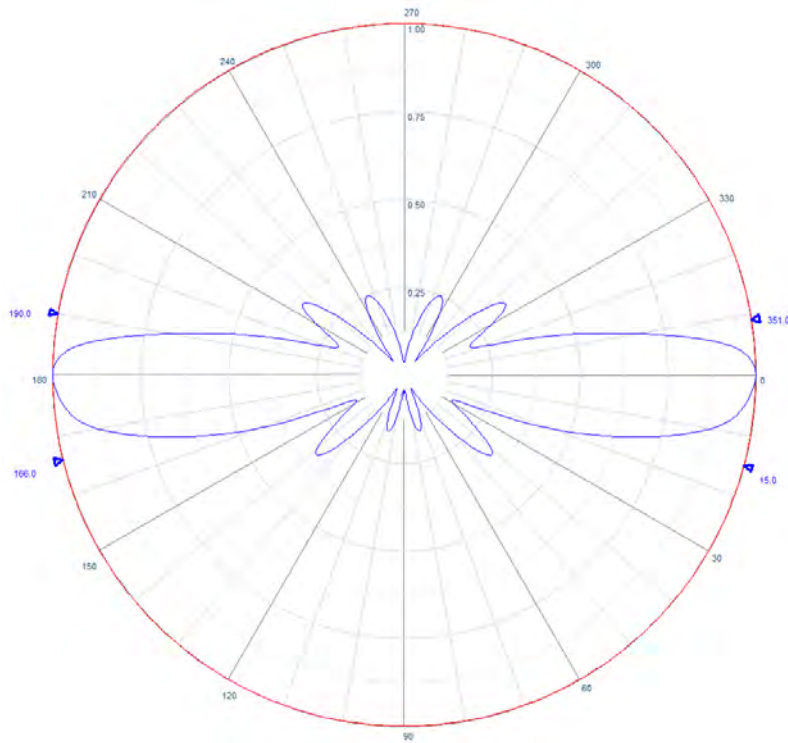
SMA male plug fitted as standard or specify requirements



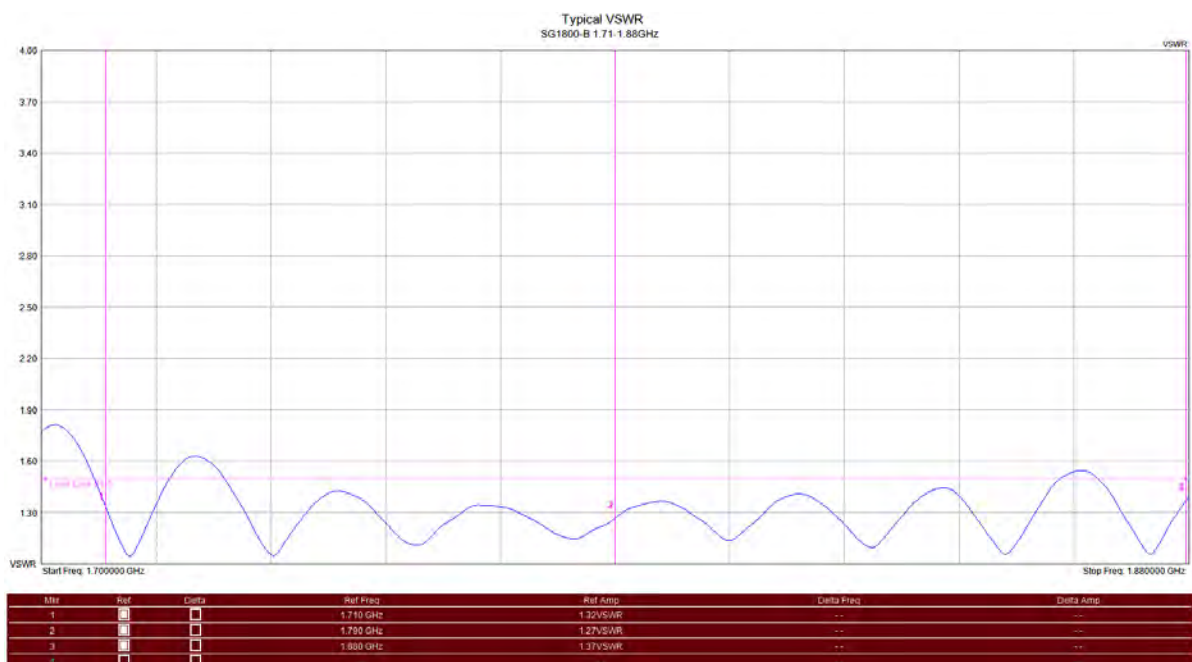
SGL1800 Series

Upper 4G/3G or wireless broadband spring base collinear

UHF 1.71-1.88 GHz



Example radiation pattern

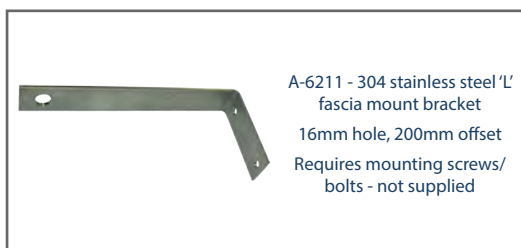


Typical VSWR

SGL1800 Series

Upper 4G/3G or wireless broadband spring base collinear

UHF 1.71-1.88 GHz



Typical alternate Connectors



SG2000-MM

Mobile phone/wireless data improvement collinear

All networks 4G/3G upper 1920-2170 MHz



The SG2000-MM series are specifically designed for the 3G upper mobile phone network, and offers consistent and dependable performance with maximum efficiency, particularly where signal strength is poor.

Mounting hardware, alternative connectors, adaptors and other installation accessories are all available separately.

Construction	White fibreglass radome, aluminium mount ferrule and cap, fixed aluminium mast mount adaptor and external coaxial cable
Frequency range	1.92-2.17 GHz - upper 4G/3G
Bandwidth	Full frequency range stated - 250 MHz
VSWR	Average: <1.6:1 ; Maximum: <1.8:1
Tuning	Factory
Gain	6.2 dBi
Maximum power	30 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
Cable	100mm RG58 low loss, solid core - bottom exit from mount adaptor
Connector	N-type female as standard or specify requirements
Height	550mm
Weight	600grams
Mount section	150mm x 24mm - machined aluminium
Mounting hardware order separate	Mount pole: CFB series or A-2654-2 Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS
Mounting position recommended	Mount as high on your structure or tower as possible using appropriate mounting hardware



Aluminium cap reduces environmental damage and unwanted signal loss



Fixed aluminium mount adaptor section - requires mounting hardware

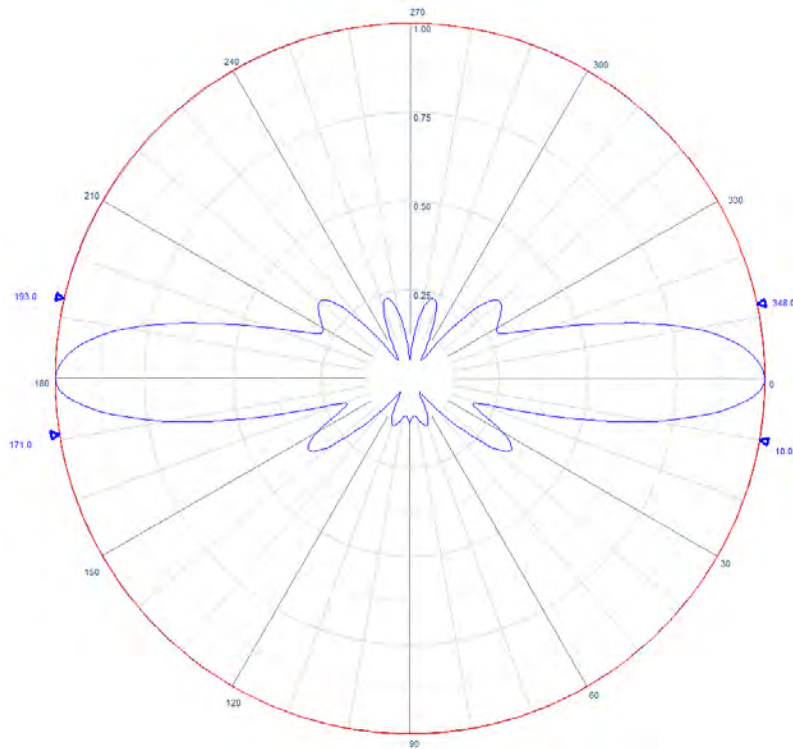


N-type female fitted to cable bottom exit from mount adaptor

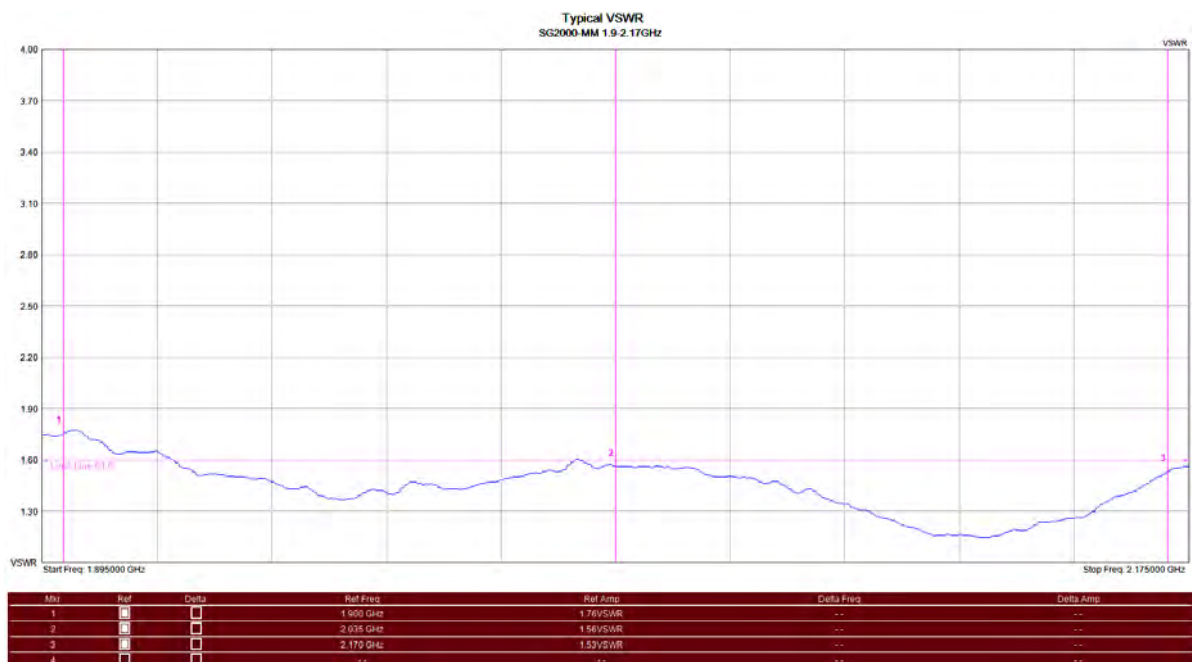
SG2000-MM

Mobile phone/wireless data improvement collinear

All networks 4G/3G upper 1920-2170 MHz



Example radiation pattern

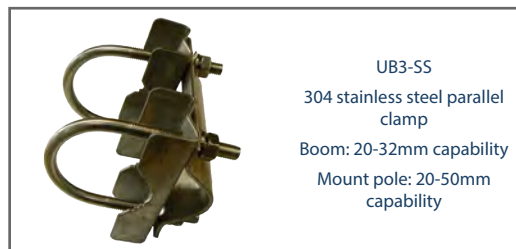
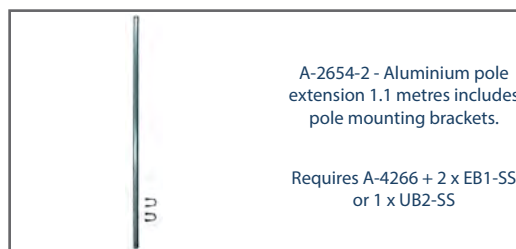


Typical VSWR

SG2000-MM

Mobile phone/wireless data improvement collinear

All networks 4G/3G upper 1920-2170 MHz



Typical alternate connectors



SGL2000 Series

Mobile phone/wireless data improvement or Telemetry applications

All networks upper 4G/3G 1920-2170 MHz

The SGL2000 series are specifically designed for all available carriers 4G/3G upper mobile phone network, and offers consistent and dependable performance with maximum efficiency, suitable for where signal strength is poor.

Please note: the SGL2000 will not improve signal where no signal is being transmitted.

Mounting hardware, adaptors, alternative connectors and other installation accessories are all available separately.

Colours available	Black: SGL2000-B White: SGL2000-W
Construction	Parallel fibreglass radome, aluminium ferrule and cap, stainless steel parallel spring and cable assembly
Frequency range	1920-2170 MHz - upper 4G/3G
Bandwidth	Full frequency range
VSWR	<1.6:1
Tuning	Factory
Gain	6.2 dBi
Maximum power	30 Watts
Impedance - nominal	50 Ohms
Polarisation	Vertical
H Plane	360 omnidirectional
Cable	5 metres RG58 low loss, solid core, bottom exit from spring
Connector	FME female supplied, not fitted or specify requirements
Height	480mm
Weight	600grams
Mounting hardware order separate	Vehicle Mounting: BBM-SS, BBML-SS, BBMXL-SS, BBKB-B, MRM-SS or ATLM series Bracket Mounting: GM1, GM2, GM6, A-6211
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 16mm hole or appropriate bracket with a 16mm hole
Installation tools required	22mm spanner for nut securing



Light to medium-duty parallel spring to maintain vertical polarisation

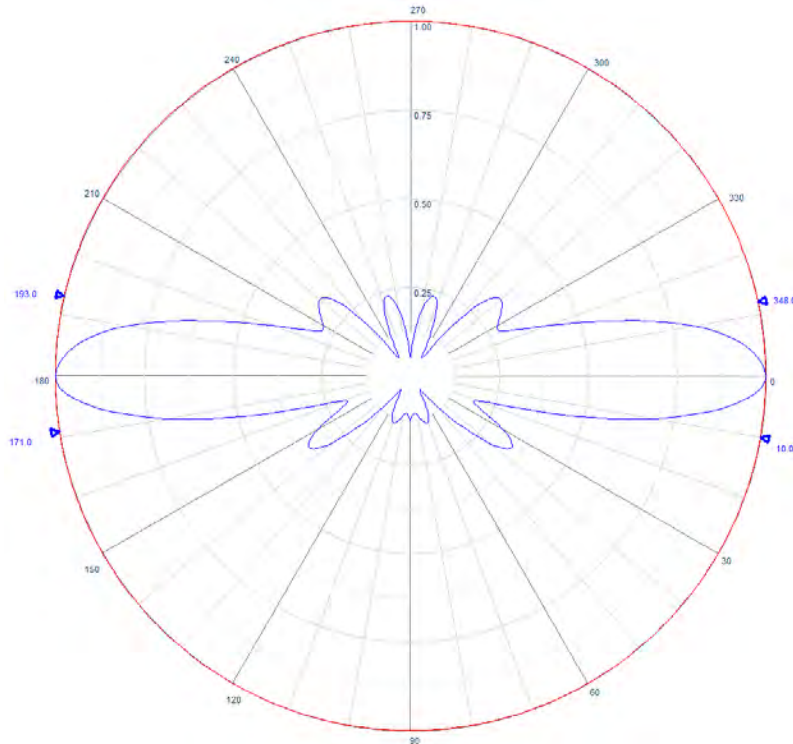


FME female supplied, not fitted

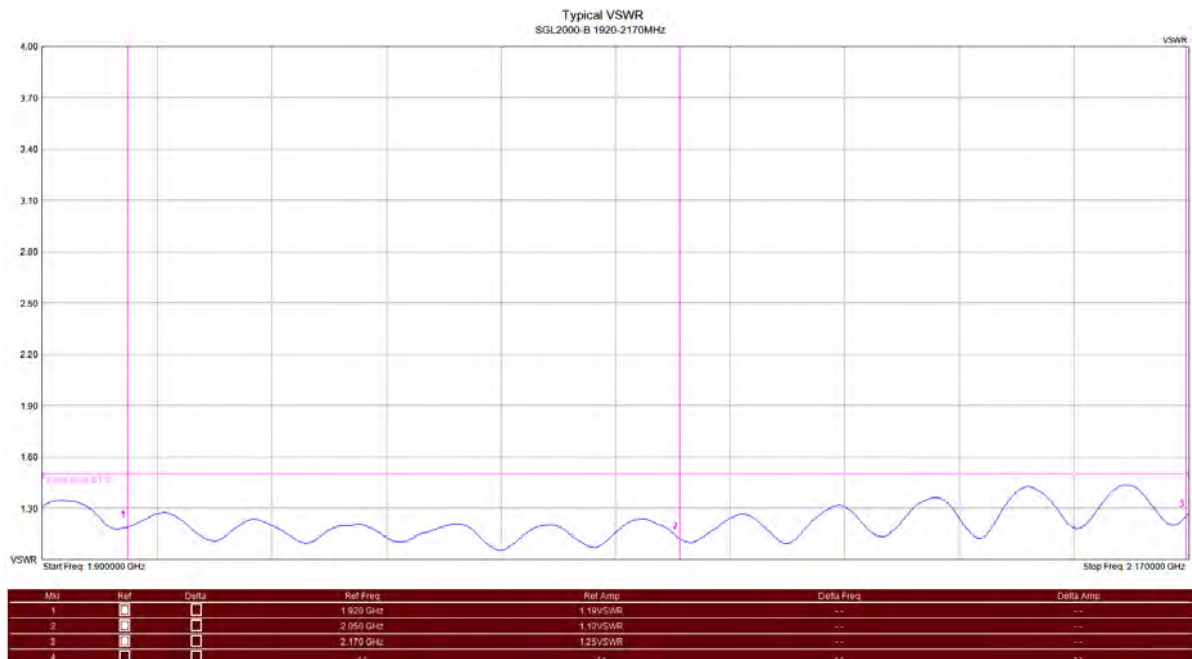
SGL2000 Series

Mobile phone/wireless data improvement or Telemetry applications

All networks upper 4G/3G 1920-2170 MHz



Example radiation pattern



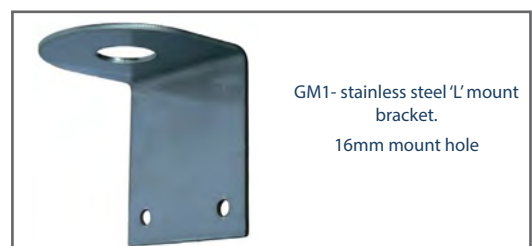
Typical VSWR

SGL2000 Series

Mobile phone/wireless data improvement or Telemetry applications

All networks upper 4G/3G 1920-2170 MHz

Recommended installation accessories



Typical alternate Connectors



SG3500

Omni-directional mast/bracket mount collinear IoT/Wireless data/ C-band 5G 3.4-3.6 GHz



The SG3500 omnidirectional C-band 5G wireless data collinear can be used as a 5G mobile phone improvement in partnership with a CEL-FI GO unit or for wireless data transfer applications.

Mounting hardware, adaptors, coaxial cable and installation accessories are all available separately.



Construction	White fibreglass radome, internal PCB, aluminium mount ferrule and side exit cable assembly
Frequency range	3.4-3.6 GHz - N78, C-band 5G
Bandwidth	Full frequency range stated - 200 MHz
VSWR	<1.8:1
Tuning	Factory
Gain	6.0 dBi
Impedance - nominal	50 Ohms
Maximum power	20 Watts
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omni-directional
E Plane	21°
Connector	SMA male fitted as standard, or specify requirements
Cable	500mm RU240-UF side exit from ferrule or specify requirements
Height	340mm
Weight	179grams
Projected area	0.006m ²
Wind load at 160kph	0.766kg, 0.008kN
Temperature range	-10°C - +60°C
Mounting hardware order separate	Bracket: GM1, GM6, A-6211, A-4115 or A-4115-2 Bracket mount: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Magnetic base: MGB Alternate spring base: A-1269, A-1269-14 or A-1270
Mounting position recommended	Mount as high on your building or tower as possible using a minimum 12.7mm hole or appropriate bracket
Installation tools required	19mm or 3/8" spanner for securing nut



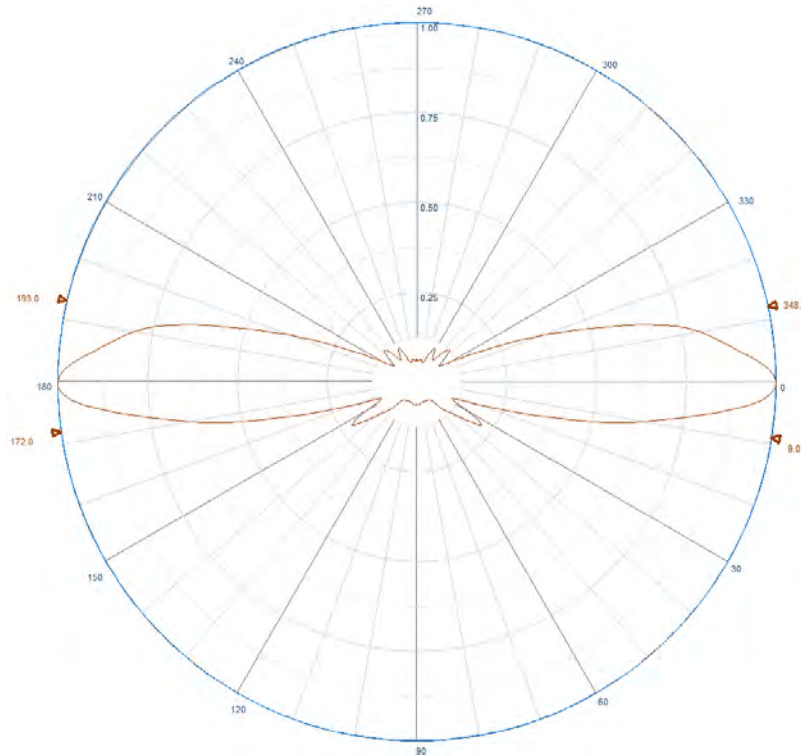
SMA male fitted as standard or specify requirements



1/2"-12BSW threaded base with nut+washer, requires 12.7mm hole

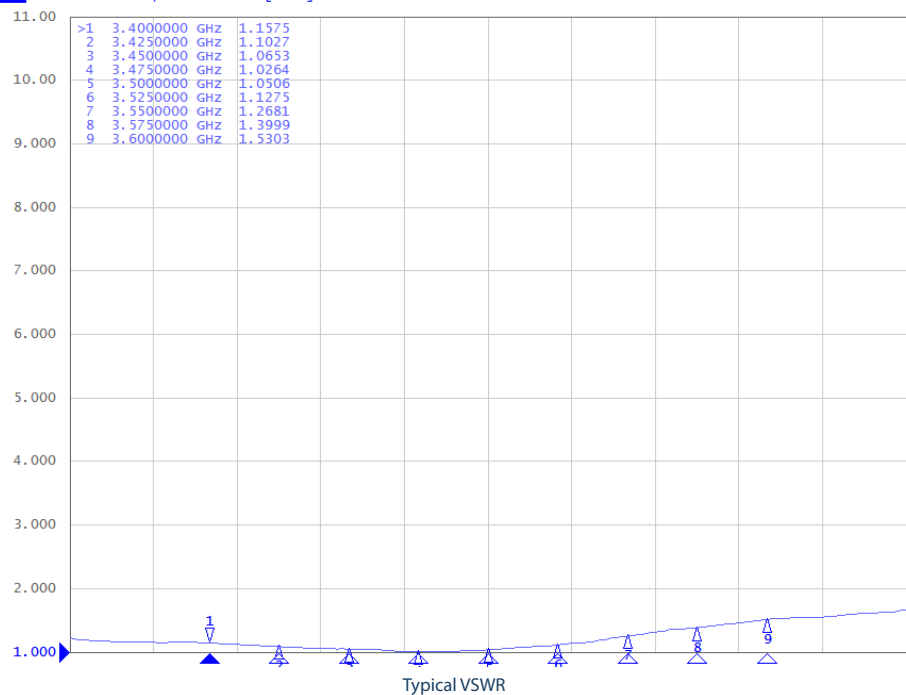
SG3500

Omni-directional mast/bracket mount collinear
IoT/Wireless data/ C-band 5G 3.4-3.6 GHz



Example polar radiation pattern

▶ **17.1** S11 SWR 1.000 / Ref 1.000 [F1 M]

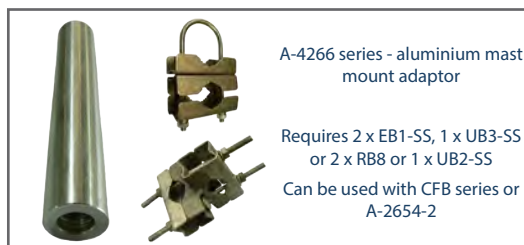


Typical VSWR

SG3500

Omni-directional mast/bracket mount collinear

IoT/Wireless data/ C-band 5G 3.4-3.6 GHz

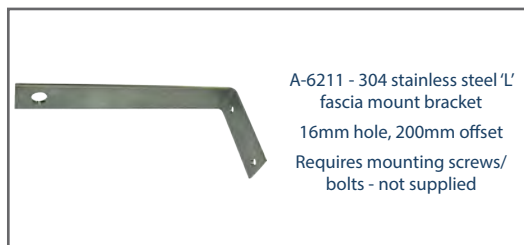


A-4266 series - aluminium mast mount adaptor

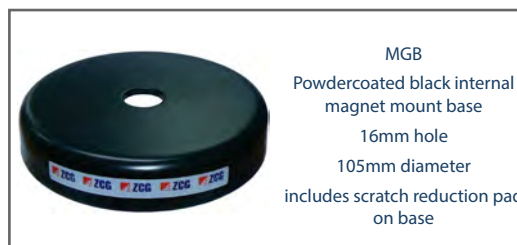
Requires 2 x EB1-SS, 1 x UB3-SS
or 2 x RB8 or 1 x UB2-SS
Can be used with CFB series or
A-2654-2



GM1 - 304 stainless steel 'L'
fascia mount bracket
16mm hole
Requires mounting screws/
bolts - not supplied



A-6211 - 304 stainless steel 'L'
fascia mount bracket
16mm hole, 200mm offset
Requires mounting screws/
bolts - not supplied



MGB
Powdercoated black internal
magnet mount base
16mm hole
105mm diameter
includes scratch reduction pad
on base



A-2845
Powdercoated black tri-
magnetic mount base
13mm hole
Santoprene coated magnets
for scratch reduction



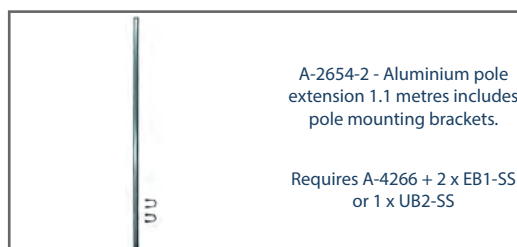
CFB series - Galvanised steel 'J'
hockey stick brackets, 1.1 - 2.1
metres.

Requires A-4266 series + 2 x
EB1-SS or 1 x UB2-SS



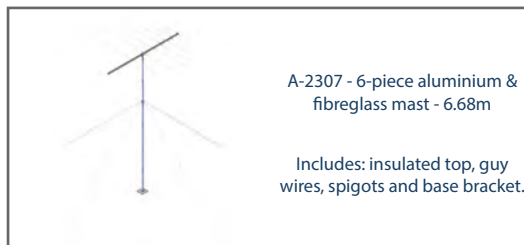
SFB Series - galvanised steel
pole extension 0.9-2.0 metres
Roof or overhang mounting

Requires A-4266 + 2 x EB1-SS
or 1 x UB2-SS



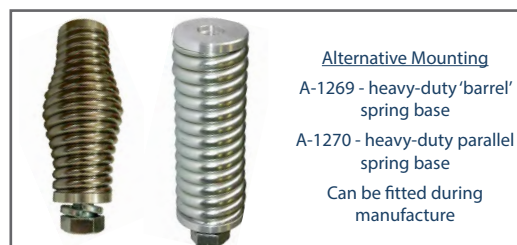
A-2654-2 - Aluminium pole
extension 1.1 metres includes
pole mounting brackets.

Requires A-4266 + 2 x EB1-SS
or 1 x UB2-SS



A-2307 - 6-piece aluminium &
fibreglass mast - 6.68m

Includes: insulated top, guy
wires, spigots and base bracket.



Alternative Mounting

A-1269 - heavy-duty 'barrel'
spring base

A-1270 - heavy-duty parallel
spring base

Can be fitted during
manufacture



SGL3500

Omni-directional parallel spring base collinear

IoT/Wireless data/ C-band 5G 3.4-3.6 GHz



The SG3500 omnidirectional C-band 5G wireless data collinear can be used as a 5G mobile phone improvement in partnership with a CEL-FI GO unit or for wireless data transfer applications.



Mounting hardware, adaptors, coaxial cable and installation accessories are all available separately.

Construction	White fibreglass radome, internal PCB, aluminium mount ferrule, parallel spring base and bottom exit cable
Frequency range	3.4-3.6 GHz - N78, C-band 5G
Bandwidth	Full frequency range stated - 200 MHz
VSWR	<1.8:1
Tuning	Factory
Gain	6.0 dBi
Impedance - nominal	50 Ohms
Maximum power	20 Watts
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omni-directional
E Plane	21°
Connector	SMA male fitted as standard, or specify requirements
Adaptor supplied	SMA female to FME female
Cable	8.0 metres RU240-UF bottom exit from spring or specify length requirements
Height	400mm
Weight	740grams
Projected area	0.007m ²
Wind load at 160kph	0.838kg, 0.008kN
Temperature range	-10°C - +60°C
Mounting hardware order separate	Bracket: GM1, GM6, A-6211, A-4115 or A-4115-2 Bracket mount: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Magnetic base: MGB or A-2845
Mounting position recommended	Mount as high on your vehicle as possible to ensure true omnidirectional signal performance.
Installation tools required	19mm or 3/8" spanner for securing nut



SMA male fitted as standard or specify requirements

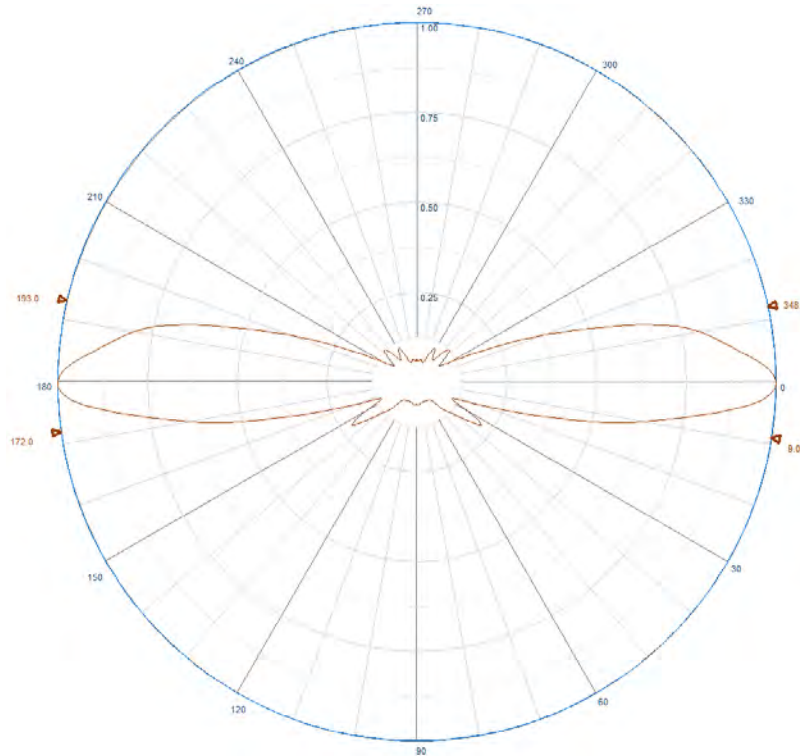
SGL3500

Omni-directional parallel spring base collinear
IoT/Wireless data/ C-band 5G 3.4-3.6 GHz

Improved
Product

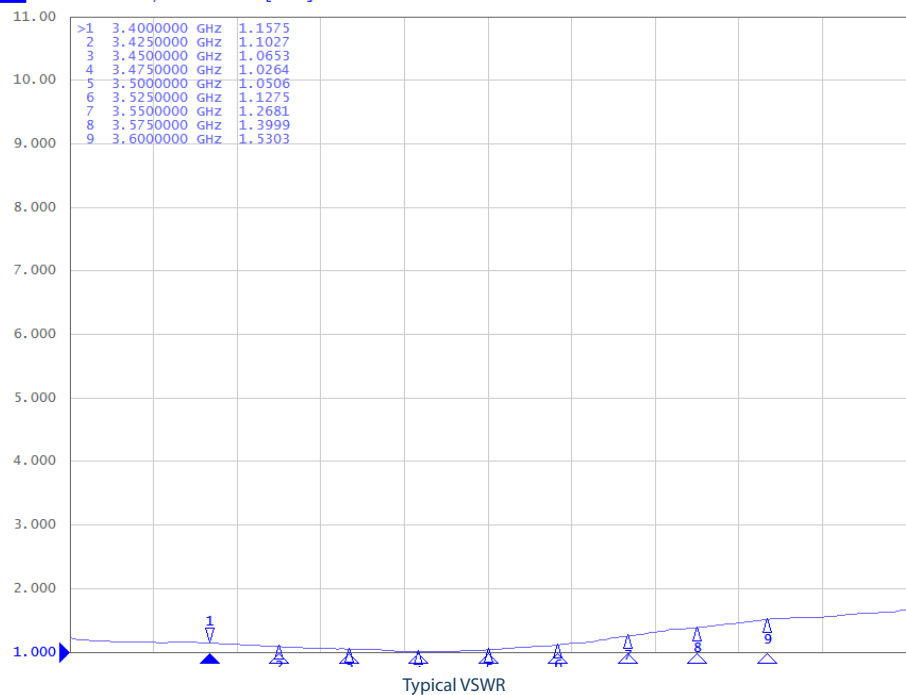
Australian
manufactured
in
East Gippsland

Build
To
Order



Example polar radiation pattern

▶ **17.1** S11 SWR 1.000 / Ref 1.000 [F1 M]



Typical VSWR



SGL3500

Omni-directional parallel spring base collinear

IoT/Wireless data/ C-band 5G 3.4-3.6 GHz



BBM-SS - wrap around bull bar mount, up to 50mm diameter bull bar tube

16mm mount hole

Requires 10mm spanner



BBML-SS - wrap around extra large bull bar mount, up to 65mm diameter bull bar tube

16mm mount hole

Requires 10mm spanner



BBMXL-SS - wrap around extra large bull bar mount, up to 76mm diameter bull bar tube

16mm mount hole

Requires 10mm spanner



BBKB-B - Rhino knock down antenna mount, powder coated black

17mm mount hole with cable slot



ATLM series - Adjustable bonnet, boot and door jam mount. 360 rotational and 140 degree adjustment

16mm mount hole

Black or Chrome

Includes 5mm and 2mm allen keys



GM1 - 304 stainless steel 'L' mount bracket

16mm mount hole



MRM-SS - 304 stainless steel clamp style mirror mount

16mm mount hole

Requires 10mm spanner



MGB - Black powdercoated magnetic base mount with scratch reduction pad. 20kg pull force

Can be fitted during manufacture

16mm mount hole and 5.5mm cable hole



A-2845

Powdercoated black tri-magnetic mount base

13mm hole

Santoprene coated magnets for scratch reduction



A-6211 - 304 stainless steel 'L' fascia mount bracket

16mm hole, 200mm offset

Requires mounting screws/ bolts - not supplied

Z3500-10-NF

Omni-directional high gain collinear

5G/Wireless data 3.4-3.7 GHz



The Z3500-10-NF is an omni-directional mast mount collinear, designed and manufactured for wireless data communications, M2M, IoT and is 5G frequency compatible in the 3.4-3.7 GHz frequency range.

Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.



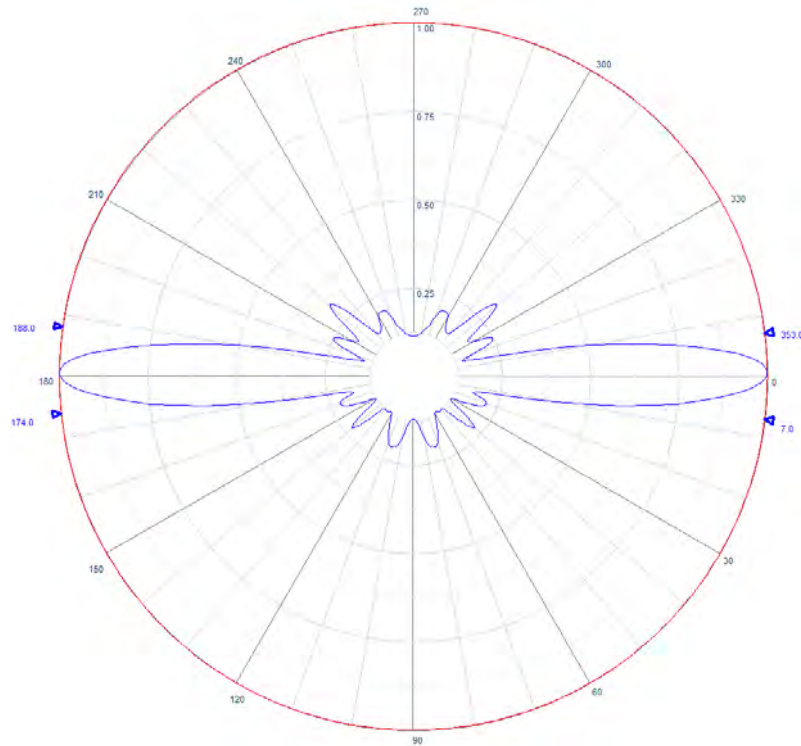
Construction	White fibreglass radome, chrome mount ferrule and aluminium mount adaptor
Frequency range	3.4-3.7 GHz - UHF, IoT, M2M & 5G compatible
Bandwidth	Full frequency range stated - 300 MHz
VSWR	<1.5:1
Tuning	Factory
Gain	10 dBi
Maximum power	50 Watts
Impedance - nominal	50 Ohms
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional
Connector	N-type female jack in base of ferrule, no cable
Height	780mm
Weight	500grams
Projected area	0.021m ²
Wind load at 160kph	2.508kg, 0.025kN
Mounting hardware - supplied	Detachable aluminium mount extension adaptor
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS
Mounting position recommended	Mount as high as possible on your structure, tower or mast using the appropriate mounting clamps. Connect cable then insert the antenna ferrule into the mount adaptor until secure.



Z3500-10-NF

Omni-directional high gain collinear

5G/Wireless data 3.4-3.7 GHz



Example radiation pattern - Z1280

Z3500-10-NF

Omni-directional high gain collinear

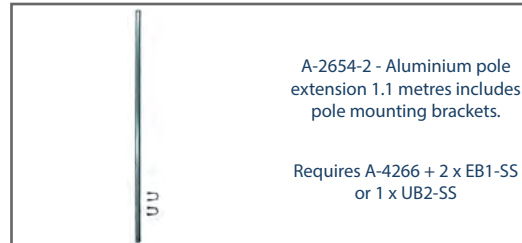
5G/Wireless data 3.4-3.7 GHz


In-stock
Ready to
Ship



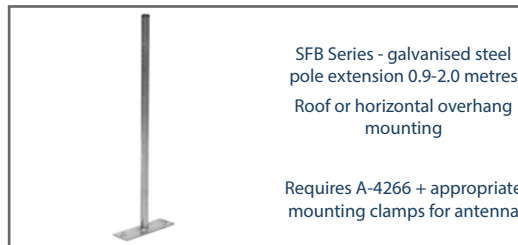
CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS



A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.

Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS

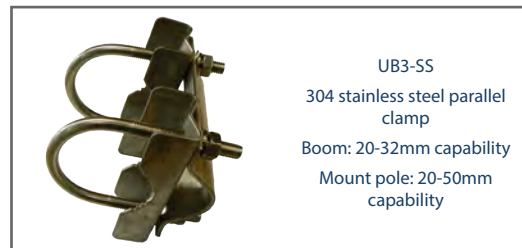


SFB Series - galvanised steel pole extension 0.9-2.0 metres
Roof or horizontal overhang mounting

Requires A-4266 + appropriate mounting clamps for antenna



EB1-SS - requires 2
304 stainless steel parallel clamp
Boom: 20-40mm capability
Mount pole: 25-45mm capability



UB3-SS
304 stainless steel parallel clamp
Boom: 20-32mm capability
Mount pole: 20-50mm capability



UB2-SS
304 stainless steel right-angle clamp
Boom: 20-50mm capability
Mount pole: 20-50mm capability

Suitable feeder coaxial cable and connectors



RU400 Solid copper conductor, low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(™ times microwave)
P/N 7890

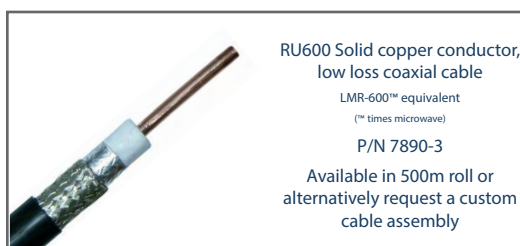
Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU400 low loss, solid conductor

P/N 8226

Tri-metal plated



RU600 Solid copper conductor, low loss coaxial cable
LMR-600™ equivalent
(™ times microwave)
P/N 7890-3

Available in 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU600 low loss, solid conductor

P/N 8226-2

Tri-metal plated



GID-M70T & GID-M90T Series

Mobile phone/ wireless data improvement elevated feed whip

All networks 4G LTE or lower 4G/3G 820-890 MHz or 890-960 MHz



GID-M90T ground independent antennas are useful for mobile phone and data network coverage improvements, telemetry applications or remote control of assets within the 4G LTE or 4G/3G. These models are a modest size and will deliver excellent performance. No metal ground plane is necessary for the antenna to operate effectively.

Please note: Check your carrier coverage for compatibility. The GID-M series will not improve transmit or receive where cellular infrastructure is not present.

Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.

	GID-M70T	GID-M90T-NextG-SS	GID-M90T-GSM
Construction	Black powdercoated phase coil whip, stainless steel and delrin base and coaxial cable assembly		Black powdercoated phase coil whip, chrome and delrin base and coaxial cable assembly
Frequency range	703-748 MHz - 4G LTE	825-890 MHz lower 4G/3G - Telstra & Vodafone	890-960 MHz lower 4G/3G - Optus & Vodafone
VSWR	<1.8:1	<1.6:1 - average <2:1 - maximum	
Tuning	Factory		
Gain	5.1 dBi		
Maximum power	5 Watts		
Impedance	50 Ohms		
Polarisation	Vertical		
	360° omnidirectional		
Cable	4.5 metres RG58 low loss, solid core exits bottom of base		
Connector	FME female fitted to cable - for ease of installation		
Height	550mm	450mm	400mm
Weight	350grams		
Mounting hardware order separate	Secure to any minimum 10mm hole or appropriate bracket with a minimum 10mm hole using the split nut attached.		
Mounting position recommended	As high on your vehicle/ structure as possible using an appropriate mount hole or bracket		
Installation tools required	14mm spanner for split nut securing		

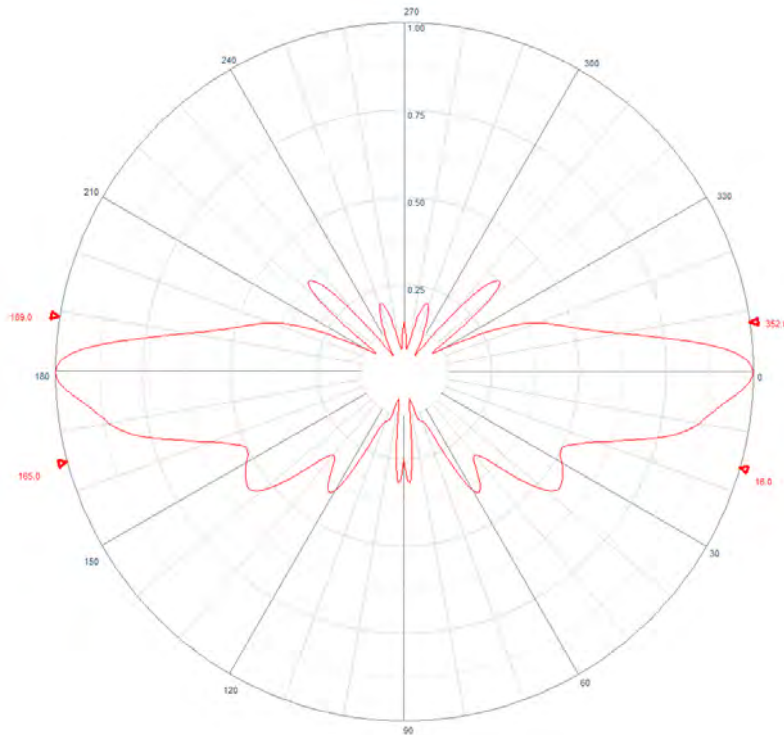




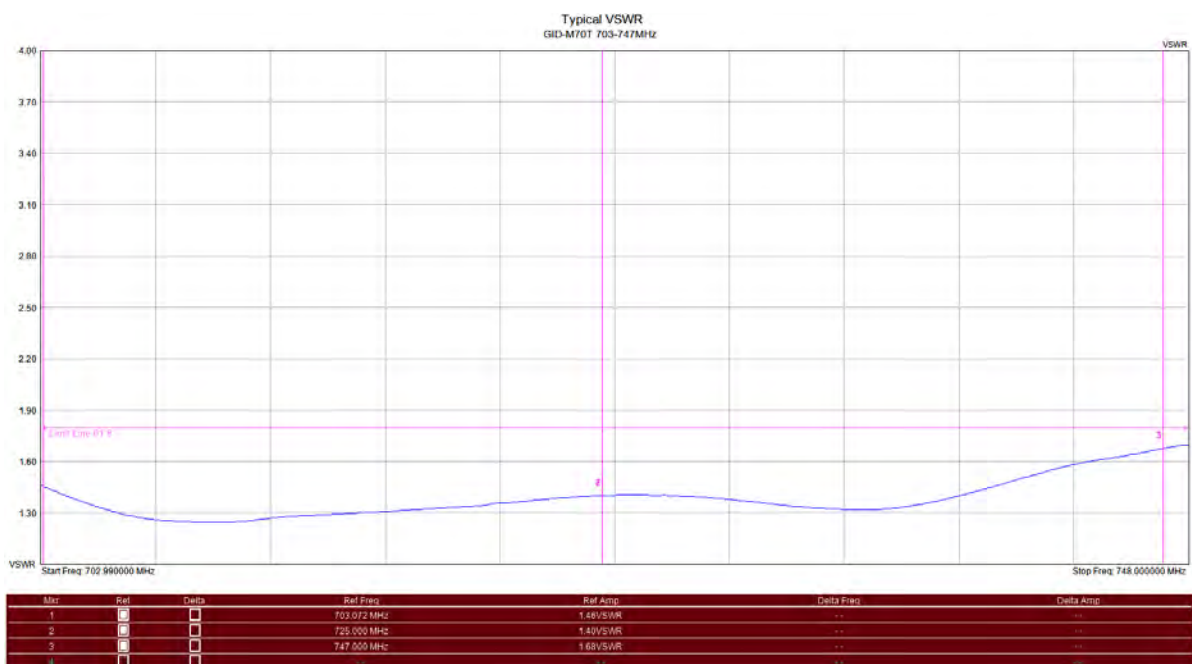
GID-M70T & GID-M90T Series

Mobile phone/ wireless data improvement elevated feed whip

All networks 4G LTE or lower 4G/3G 820-890 MHz or 890-960 MHz



Example radiation pattern



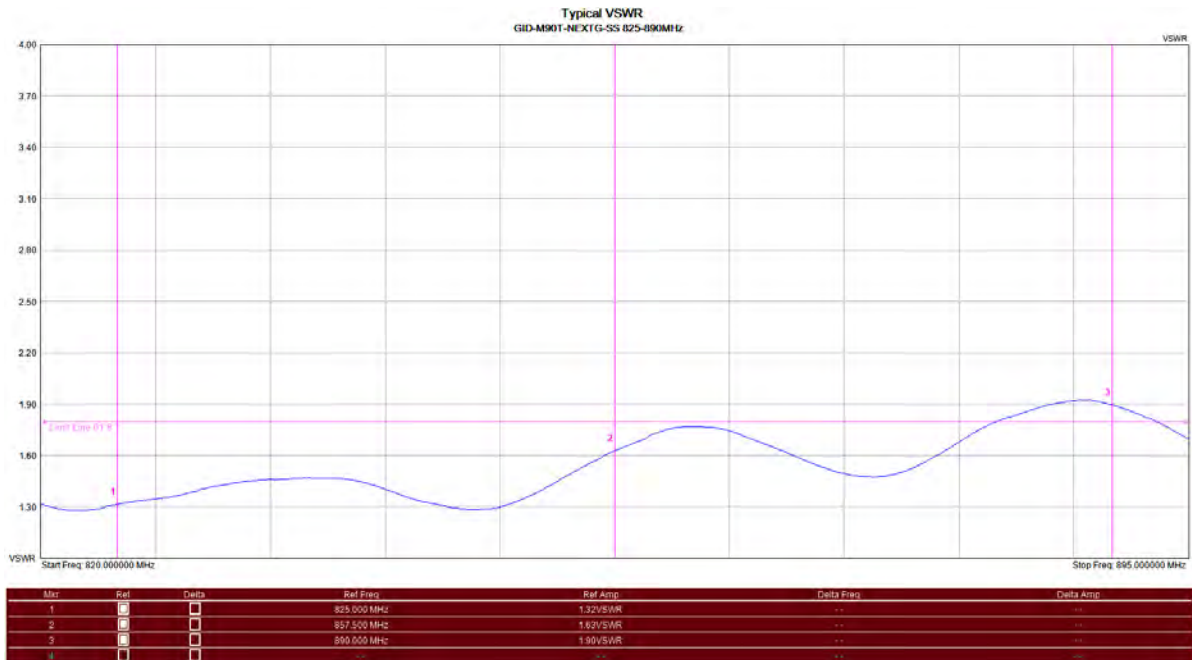
Typical VSWR - GID-M70T



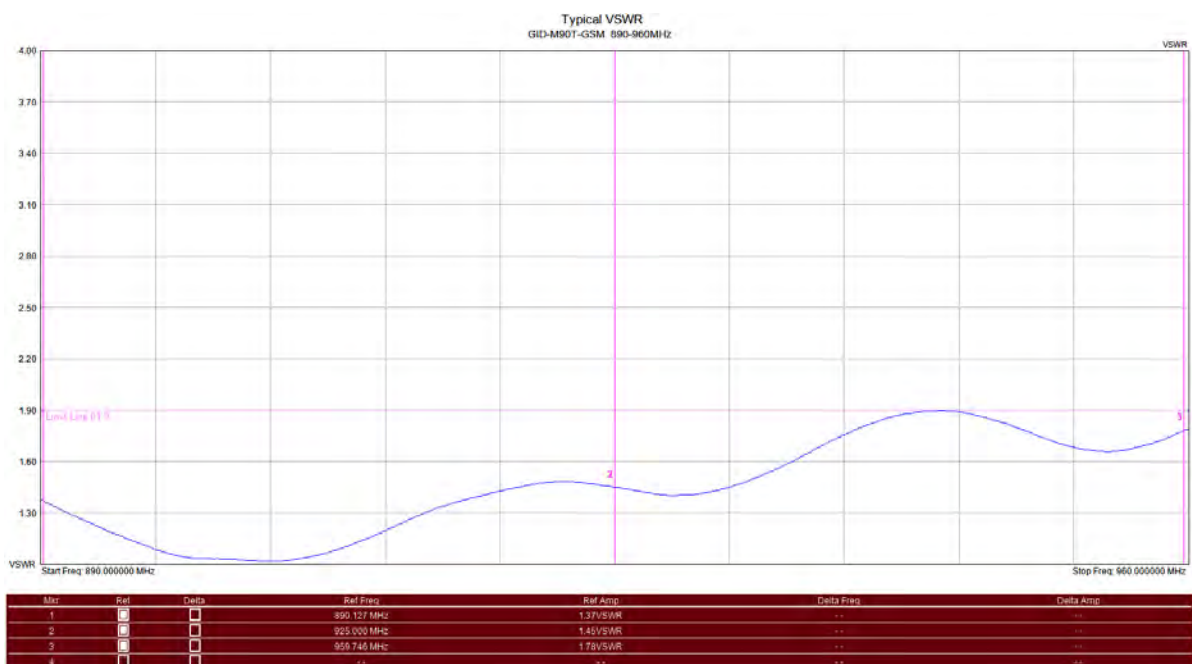
GID-M70T & GID-M90T Series

Mobile phone/ wireless data improvement elevated feed whip

All networks 4G LTE or lower 4G/3G 820-890 MHz or 890-960 MHz



Typical VSWR - GID-M90T-NextG-SS



Typical VSWR - GID-M90T-GSM

GID-M70T & GID-M90T Series

Mobile phone/ wireless data improvement elevated feed whip
All networks 4G LTE or lower 4G/3G 820-890 MHz or 890-960 MHz

Recommended installation accessories

 <p>BBM-SS - wrap around bull bar mount, up to 50mm diameter bull bar tube</p> <p>16mm mount hole</p> <p>Requires 10mm spanner</p>	 <p>BBML-SS - wrap around extra large bull bar mount, up to 65mm diameter bull bar tube</p> <p>16mm mount hole</p> <p>Requires 10mm spanner</p>
 <p>BBMXL-SS - wrap around extra large bull bar mount, up to 76mm diameter bull bar tube</p> <p>16mm mount hole</p> <p>Requires 10mm spanner</p>	 <p>BBKB-B - Rhino knock down antenna mount, powder coated black</p> <p>17mm mount hole with cable slot</p>
 <p>ATLM series - Adjustable bonnet, boot and door jam mount. 360 rotational and 140 degree adjustment</p> <p>16mm mount hole</p> <p>Black or Chrome</p> <p>Includes 5mm and 2mm allen keys</p>	<p><u>Alternate magnetic mounting</u></p>  <p>MGB - Black powdercoated magnetic mount base, 105mm diameter, 20kg pull force</p> <p>16mm mount hole</p>
<p><u>Alternate magnetic mounting</u></p>  <p>A-2845 - Tri-magnet powdercoated magnetic mount base, 60kg pull force</p> <p>13mm mount hole</p>	<p><u>Alternate fixed mounting</u></p>  <p>A-4115-2 - Aluminium offset mount bracket, 40mm offset</p> <p>12.7mm mount hole</p>
<p><u>Alternate fixed mounting</u></p>  <p>A-6211 - 304 stainless steel offset mount bracket, 200mm offset</p> <p>16mm mount hole</p>	<p><u>Alternate fixed mounting</u></p>  <p>A-6486-3 - 304 stainless steel overhang or pole mount bracket, 88-133mm offset</p> <p>13mm mount hole</p> <p>Can suit U-bolt mounting</p>

Typical alternate connectors

 <p>P/N 7963-7 SMA male crimp-style termination Gold plated</p> <p>Also available in opposite gender, right-angle or reverse gender/polarity</p>	 <p>P/N 7933-2 N-type male crimp-style termination Tri-metal plated</p> <p>Also available in opposite gender or right-angle</p>
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GIDM-DB



Ground independent mobile phone and wireless data improvement

All networks lower 4G/3G mobile phone 820-960 MHz



The GIDM-DB is a ground independent elevated feed antenna and is specifically designed and manufactured for full coverage of all networks lower 4G and 3G mobile phone networks for wireless data and mobile phone improvement.

Mounting hardware, adaptors, connectors and other installation accessories are all available separately.



Construction	Black moulded whip, stainless steel and black delrin base and coaxial cable assembly
Frequency range	820-960 MHz - Lower 4G/3G, all networks
Bandwidth	Full frequency range stated - 140 MHz
VSWR	<2.0:1
Tuning	Factory
Gain	2.1 dBi
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
Cable	5 metres RG58 low loss, solid core - bottom exits base
Connector	FME female fitted to cable - for ease of installation
Height	270mm
Weight	280grams
Mounting hardware order separate	Secure to any minimum 10mm hole or appropriate bracket with a minimum 10mm hole using the split nut attached such as the GM5, A-6211, A-4115-2, A-6486-3 or consult ZCG for alternatives.
Mounting position recommended	As high on your structure as possible using an appropriate mount hole or bracket, ensuring antenna is kept vertical.
Installation tools required	17mm spanner for split nut securing



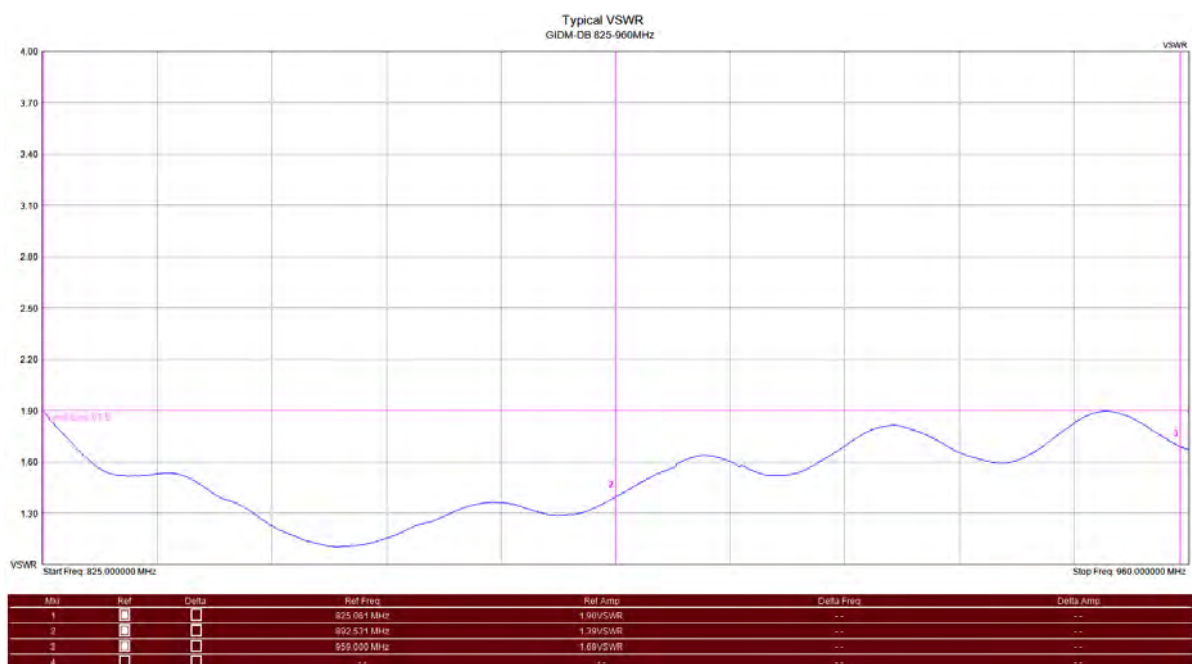
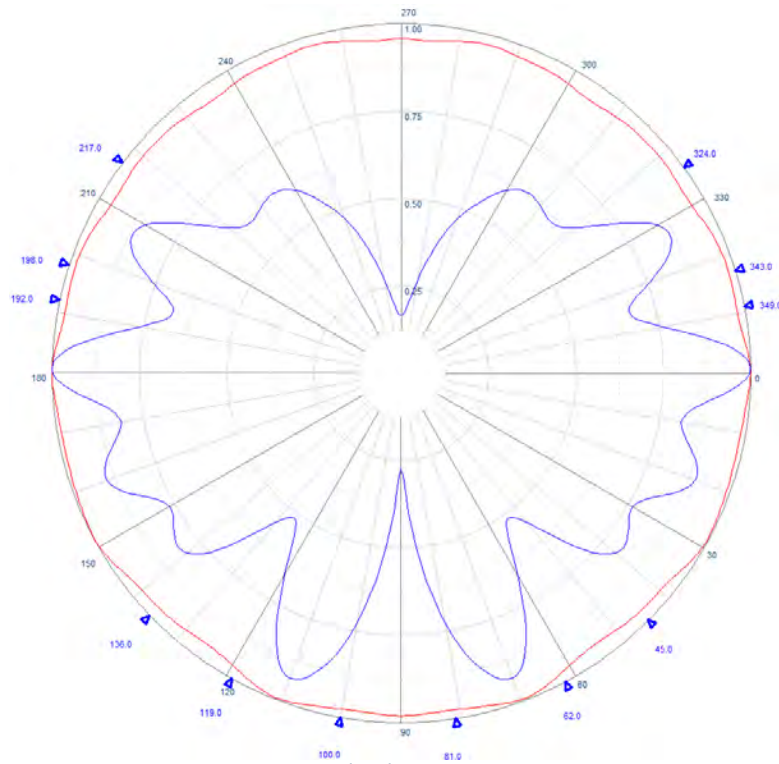
FME female fitted as standard or specify requirements



GIDM-DB

Ground independent mobile phone and wireless data improvement

All networks lower 4G/3G mobile phone 820-960 MHz



Typical VSWR

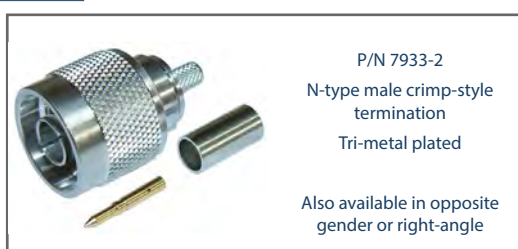
GIDM-DB

Ground independent mobile phone and wireless data improvement
All networks lower 4G/3G mobile phone 820-960 MHz

Recommended installation accessories



Typical alternate connectors





GIDM-800

Ground independent elevated feed whip

Lower 4G/3G 825-890 MHz



The GIDM-800 is a ground independent, antenna specifically designed and manufactured for full coverage of the lower 4G/3G network (Telstra within Australia) suitable for wireless data transfer, mobile phone improvement or telemetry applications. The GIDM-800 design of a 1/4λ whip, over a 1/4λ elevated feed mimicking a ground plane, results in this antenna being ground independent. Ideally suited for vehicle and industrial applications.

Mounting hardware, adaptors, connectors and other installation accessories are all available separately.

Construction	Black heatshrunk whip, stainless steel and black nylon elevated feed base and cable assembly
Frequency range	825-890 MHz - lower 4G/3G, Telstra within Australia
Bandwidth	Full frequency range stated - 65 MHz
VSWR	<1.6:1 - average <1.9:1 - maximum
Tuning	Factory
Gain	2.1 dBi
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
Cable	4.5 metres RG58 low loss, solid core - bottom exit from base
Connector	FME female fitted to cable as standard or specify
Height	220mm
Weight	280grams
Mounting hardware order separate	Hole: minimum 16mm diameter Bracket: GM1, GM2, GM6, BBM series, BBKB-B, MRM-SS or A-6211
Mounting position recommended	As high on your structure as possible using an appropriate 16mm mount hole or bracket
Installation tools required	14mm spanner for split nut securing

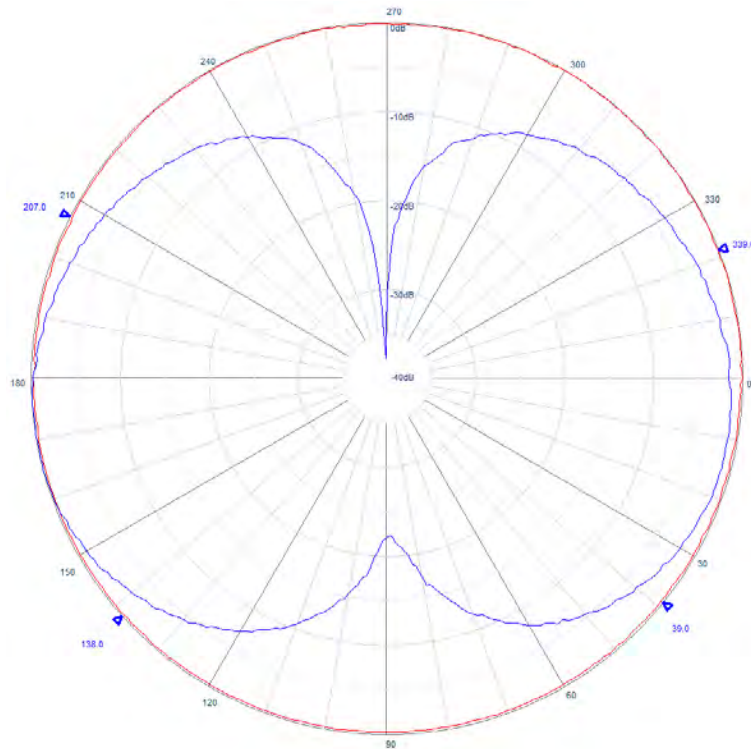


FME female fitted to cable as standard or specify requirements

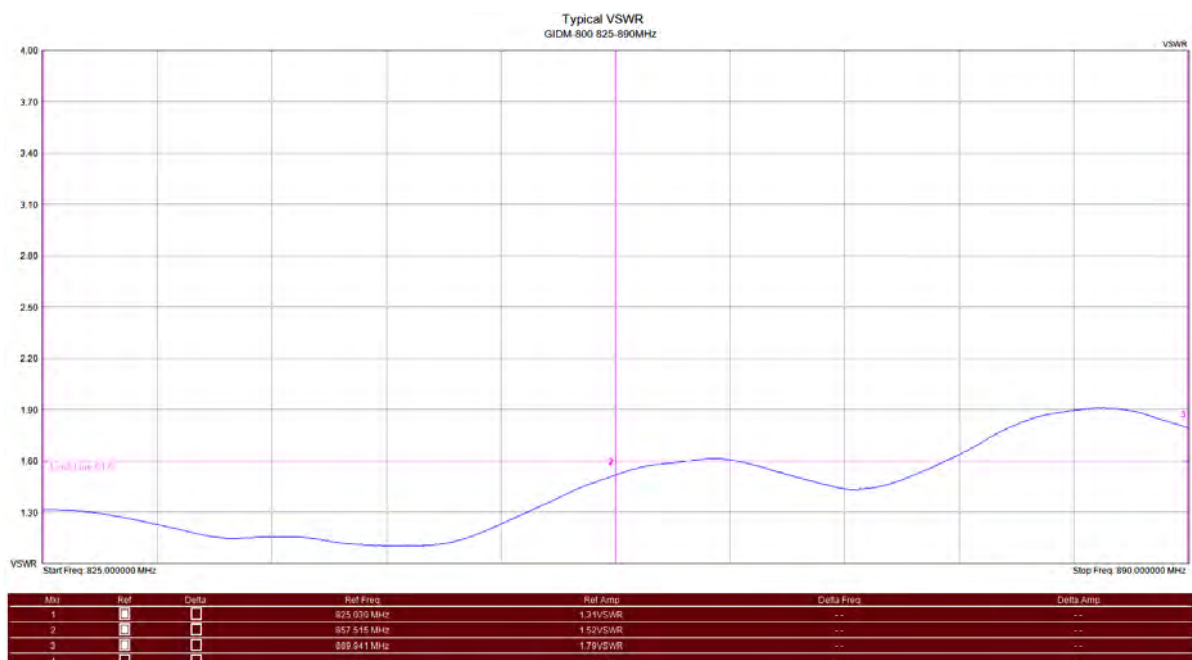
GIDM-800

Ground independent elevated feed whip

Lower 4G/3G 825-890 MHz



Example radiation pattern



Typical VSWR

GIDM-800



Ground independent elevated feed whip

Lower 4G/3G 825-890 MHz

Recommended installation accessories

 <p>BBM-SS series - wrap around bull bar mount, up to 50-76mm diameter bull bar tube, depending on model</p> <p>16mm mount hole Requires 10mm spanner</p>	 <p>MRM-SS - clamp style mounting clamps for mirrors or tube up to 20mm diameter</p> <p>16mm mount hole Requires 10mm spanner</p>
 <p>BBKB-B - Rhino knock down antenna mount, powder coated black</p> <p>17mm mount hole with cable slot</p>	 <p>ATLM series - Adjustable bonnet, boot and door jam mount. 360 rotational and 140 degree adjustment</p> <p>16mm mount hole Black or Chrome Includes 5mm and 2mm allen keys</p>
 <p><u>Alternate magnetic mounting</u></p> <p>A-2845 - Tri-magnet powdercoated magnetic mount base, 60kg pull force</p> <p>13mm mount hole</p>	 <p><u>Alternate magnetic mounting</u></p> <p>MGB - Black powdercoated magnetic mount base, 105mm diameter, 20kg pull force</p> <p>16mm mount hole</p>
 <p><u>Alternate fixed mounting</u></p> <p>A-6211 - 304 stainless steel offset mount bracket, 200mm offset</p> <p>16mm mount hole</p>	 <p><u>Alternate fixed mounting</u></p> <p>A-4115-2 - Aluminium offset mount bracket, 40mm offset</p> <p>12.7mm mount hole</p>

Typical alternate Connectors

 <p>SMA male termination Suits CEL-Fi go device or telemetry device.</p> <p>Also available in right-angle configuration or alternate gender</p>	 <p>N-type male termination Suits telemetry devices</p> <p>Also available in right-angle configuration or alternate gender</p>
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CEL-Fi Go Compatibility additions

 <p>P/N 8275 FME male to SMA male adaptor Converts antenna termination to CEL-Fi Go input termination</p>
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MAG-M70T or MAG-M90T series

Magnetic base mobile phone/wireless data improvement

4G LTE 700-730 MHz or 4G/3G 825-890 MHz or 890-960 MHz



The MAG-M70T / M90T series of detachable magnetic base phased coil whip antennas will enhance the reception of your mobile phone or wireless data device. The MAG-M70T / M90T series are easy to set-up, easy to remove and the detachable whip makes the antenna easy to store when not required or for short-term installation such as a hire car.

Alternate connectors, adaptors and other installation accessories are all available separately.

	MAG-M70T700*	MAG-M90T800	MAG-M90T900
Construction	Black stainless steel whip, moulded magnetic base, detachable external cable assembly and termination		
Frequency range	700-730 MHz - 4G LTE	825-890 MHz Lower 4G/3G - Telstra & Vodafone within Australia	890-960MHz Lower 4G/3G - Optus & Vodafone within Australia
Bandwidth	Full frequency range stated		
VSWR	<2:1		
Tuning	Factory		
Gain - nominal	5 dBi		
Maximum power	5 Watts		
Impedance	50 Ohms		
Polarisation	Vertical		
Connector - fitted	MAG-M70T-700: N-type male or specify requirements MAG-M90T-800 / 900: SMA male or specify requirements		
Cable assembly - supplied	5 metres RG58 low loss, solid core - detachable		
Height	404mm	358mm	342mm
Magnetic base diameter	50.4mm - round		
Weight	90grams	65grams	60grams
Mounting position recommended	As high on your vehicle or structure on any flat magnetic metal surface		



MAG-M70T700
4G LTE 700-730MHz



MAG-M90T800
Lower 4G / 3G / 2G 825-890MHz
Telstra within Australia



MAG-M90T900
Lower 4G / 3G / 2G 890-960MHz
Optus & VHA within Australia



Magnetic base with FME male termination and M6 thread



SMA male termination as standard on MAG-M90T-800/900 specify requirements



N-type male termination as standard on MAG-M70T-700 or specify requirements



MAG-CELL-DB series

Magnetic base mobile phone/wireless data improvement

4G LTE & 4G/3G 700-890 MHz & 1710-2190 MHz



The MAG-CELL-DB series of magnetic base antenna is specifically designed for use to improve reception of the 4G LTE, 4G, 3G & 2G mobile phone and wireless data networks. With a magnetic mount base, the MAG-CELL-DB series can be easily installed and removed in situations where theft/vandalism or damage may occur.

The MAG-CELL-DB is just the removable magnetic base with radiating whip attached.

The MAG-CELL-DB-2 comes standard with the magnetic radiating whip base and a 2.0 metre cable assembly ready for installation.

Alternative cable assemblies, adaptors, connectors and other installation accessories are all available separately.



MAG-CELL-DB



MAG-CELL-DB-2



MAG-CELL-DB-2 SMA male fitted to cable as standard or specify requirements

	MAG-CELL-DB	MAG-CELL-DB-2
Construction	Black moulded whip and nickel	Black moulded whip and nickel and cable assembly
Frequency range	700-890 MHz & 1750-2170 MHz - 4G LTE and dualband 4G/3G	
Bandwidth	Full frequency ranges stated	
VSWR	<2.0:1	
Tuning	Factory	
Gain - nominal	3.1 dBi	
Maximum power	5 Watts	
H Plane	360° omnidirectional	
Impedance	50 Ohms	
Polarisation	Vertical	
Connector - fitted	FME male inside magnetic base	SMA Male fitted to end of cable
Height	135mm	
Weight	60grams	80grams
Mounting hardware	Specify cable assembly length & connectors - order separate	2 metre cable assembly with SMA connector fitted
Mounting position recommended	As high on your vehicle or structure on any flat magnetic metal surface, can be interior inverted mounted.	

C858

Hard moulded dualband portable stubby whip
4G/3G 890-960 MHz & 1710-1880 MHz


In-stock
Ready to
Ship

The C858 is a small portable whip designed for use on 4G/3G 900 and 4G LTE/4G upper 1800 band portable devices.

The stubby profile of the C858 makes its suitable for reduced space restricted situations.

Adaptors, water proofing and other installation accessories are all available separately.



Construction	Black UV resistant PVC and chrome connector
Frequency range	890-960 MHz and 1710-1880 MHz - dualband 4G/3G
Bandwidth	Full frequency ranges stated
VSWR	<3:1
Tuning	Factory
Gain	2.1 dBi
Impedance - nominal	50 Ohms
Maximum power	5 Watts
Polarisation	Vertical
H Plane	360° omnidirectional
Connector - fitted	FME female in base
Height	56mm
Weight	5grams
Mounting	FME female fits to any FME male terminated device
Mounting position recommended	Mount as high on your device or vehicle as possible. If on hand-held device, ensure minimal metallic are surrounding you





M96T series

M6 female threaded flexible whip

Lower 4G/3G 825-890 MHz or 890-960 MHz



The M96T series of whips are highly flexible whips with a M6 x 1.0mm female thread in the ferrule suitable for European 6mm terminations. Suitable for locations or requirements where a small and discrete profile is required such as taxi's, trucks or public transport applications

Mounting bases, water proofing and other installation accessories are all available separately.



	M96T	M96T-GSM
Construction	Black heatshrunk flexible whip and brass mount ferrule	
Frequency range	825-890 MHz - lower 4G/3G Telstra & Vodafone within Australia	890-960 MHz - lower 4G/3G Optus & Vodafone within Australia
Bandwidth	Full frequency range stated	
VSWR	<1.5:1	
Tuning	Factory	
Gain	2.1 dBi	
Impedance	50 Ohms	
Maximum power	5 Watts	
Thread in base	M6 x 1.0mm female thread	
Polarisation	Vertical	
H Plane	360° omnidirectional	
Dimensions	Height: 77mm Diameter: 10mm	Height: 80mm Diameter: 10mm
Weight	30grams	26grams
Mounting hardware order separate	6mm female thread fits to any 6mm male terminated base such as XB-4.7 or MGB-XB	
Mounting position recommended	Mount as high as possible, if using on a hand-held device, ensure device is not enclosed within metallic material or within a metallic lined structure.	



ZGSM-WX series

Mobile phone/Wireless data improvement pivot whip

4G LTE 700-800 MHz or 4G/3G 824-960 MHz & 1710-1880 MHz


In-stock
Ready to
Ship
* Signifies build to order item

The ZGSM-WX series of ninety degree whip antennas will improve mobile phone or wireless data device reception and transmission range.

Ideal applications for the ZGSM-WX series are:

- Wireless data communication
- Wireless monitoring/ telemetry
- Mobile phone network improvement

Cable assemblies and other installation accessories are all available separately.



	ZGSM-WX-750*	ZGSM-WX-825
Construction	Black moulded outer, 90° swivel joint, and gold plated termination	
Frequency range	700-800 MHz - 4G LTE	824-990 MHz - lower 4G/3G
Bandwidth	Full frequency range stated	
VSWR	<1.5:1	
Tuning	Factory	
Gain	5.5 dBi	5.5 dBi
Maximum power	50 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
Connector	SMA male plug connector as base	
H Plane	360° omnidirectional	
Operating temperature	-40°C to +80°C	
Storage temperature	-40°C to +85°C	
Dimensions	Height: 196mm, Diameter: 15mm	
Weight	150grams	
Mounting	Connection straight to the device with swivel flanged connection, can be used in conjunction with low loss cable tail.	



ZYUE-4GLTE series

Mobile phone/Wireless data improvement pivot whip

4G LTE, 4G, 3G and ISM2.4/WiFi



The ZYUE-4GLTE series of whips has the ability to be either set straight, or on a 90 degree bend for those space saving requirements. Suitable for 4G LTE, 4G, 3G and WiFi applications.

Adaptors, patch leads, water proofing and other installation accessories are all available separately.



	ZYUE-4GLTE-001	ZYUE-4GLTE-N001
Construction	Black moulded whip, 90 degree swivel chrome connector	
Frequency range	704-960 MHz & 1710-2690 MHz - 4G LTE, 4G/3G and WiFi/WLAN compatible	
Bandwidth	Full frequency ranges stated	
VSWR	<2.0:1	
Tuning	Factory	
Gain	4.5 dBi	5 dBi
Impedance	50 Ohms	
Maximum power	10 Watts	
Connector as base	SMA male plug connector as base	
Polarisation	Linear	
H Plane	360° omnidirectional	
Dimensions	Height: 87.5-105mm Diameter: 9.4mm Width: 27mm	Height: 144-182mm Width: 30mm Depth: 16.3mm
Mounting	SMA male fits to any SMA female terminated device	
Operating temperature	-20°C to +65°C	-40°C to +80°C
Mounting position recommended	Mount as high as possible, if using on a hand-held device, ensure device is not enclosed within metallic material or within a metallic lined structure.	



ZYUE-4GLTE-001



ZYUE-4GLTE-N001

ZYUE-4GLTE-002

Mobile phone/Wireless data whip

4G LTE, 4G, 3G and ISM2.4/WiFi



The ZYUE-4GLTE-002 whip is suitable as a telemetry antenna solution for all networks 4G LTE, 4G/3G as well as WiFi/WLAN applications.

The ZYUE-4GLTE-002 is a fixed polarised whip for vertical applications, ZCG also supply a 90 degree pivot mount version ZYUE-4GLTE-001

Adaptors, patch leads, water proofing and other installation accessories are all available separately.



Construction	Black TPEE moulded outer radome and external chrome connector
Frequency range	698-960 MHz & 1710-2700 MHz - 4G LTE, 4G/3G and WiFi/WLAN
Bandwidth	Full frequency ranges stated
VSWR	<2.0:1
Tuning	Factory
Gain	5.5 dBi
Impedance	50 Ohms
Maximum power	50 Watts
Connector as base	SMA male plug connector as base
Polarisation	Linear - Vertical
H Plane	360° omnidirectional
Height	180mm
Mounting	SMA male fits to any SMA female terminated device
Operating temperature	-20°C to +65°C
Mounting position recommended	Mount as high as possible, if using on a hand-held device, ensure device is not enclosed within metallic material or within a metallic lined structure.





Y1809

High gain radome enclosed Yagi

All networks 4G/4G LTE mobile phone 1710-1880 MHz



The Y1809 mast mount enclosed Yagi is specifically designed and manufactured for directional transmit and receive across the 4G & 4G LTE upper mobile phone frequency range 1710-1880MHz.

The Y1809 Yagi only performs on a single plane, for full 4G LTE compatibility a cross or 'X' signal pattern is required.

Coaxial feeder cable, connectors and other installation accessories are all available separately.



Construction	White fibreglass radome, aluminium mount plate and external cable
Frequency range	1710-1880 MHz - upper 4G/3G
Bandwidth	Full frequency range stated - 170 MHz
VSWR	<1.5:1
Tuning	Factory
Gain	11.3 dBi
Maximum power	25 Watts
Impedance	50 Ohms
Polarisation	Mount horizontal or vertical as required
H Plane	36°
E Plane	43°
Front-to-back ratio	20 dB
DC grounding	Yes
Connector & Cable	N-type female fitted to 200mm UV rated RG142
Dimensions	Length: 300mm x Diameter: 80mm
Weight	1.5kg
Projected area	0.072m ²
Wind load at 160kph	0.086kN, 8.755kg
Mounting hardware	Aluminium mount plate, 2 x galvanised steel V-blocks, 2 x 50mm diameter galvanised steel U-bolts - supplied
Installation tools required	13mm spanner for mounting U-bolts

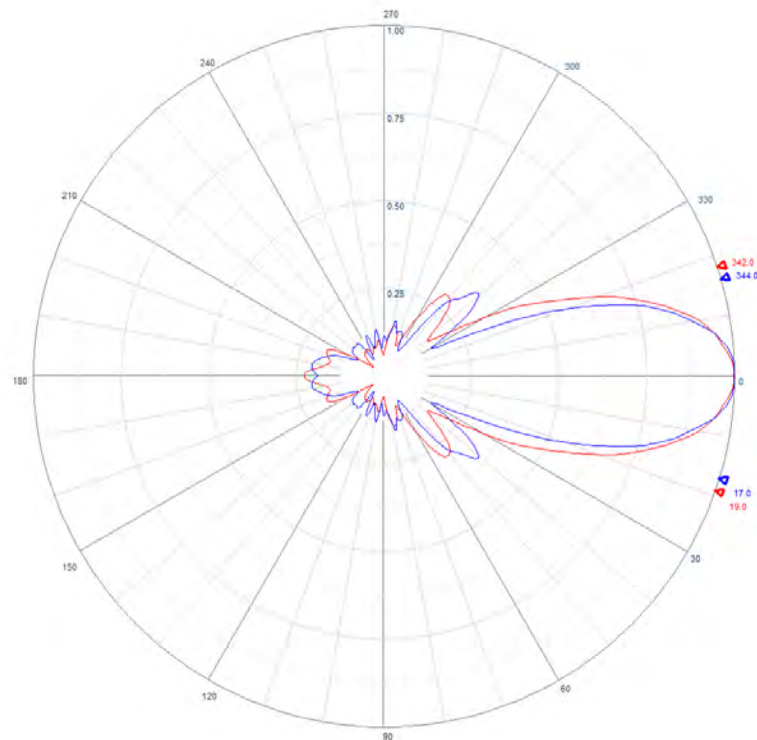


N-type female fitted as standard or specify requirements

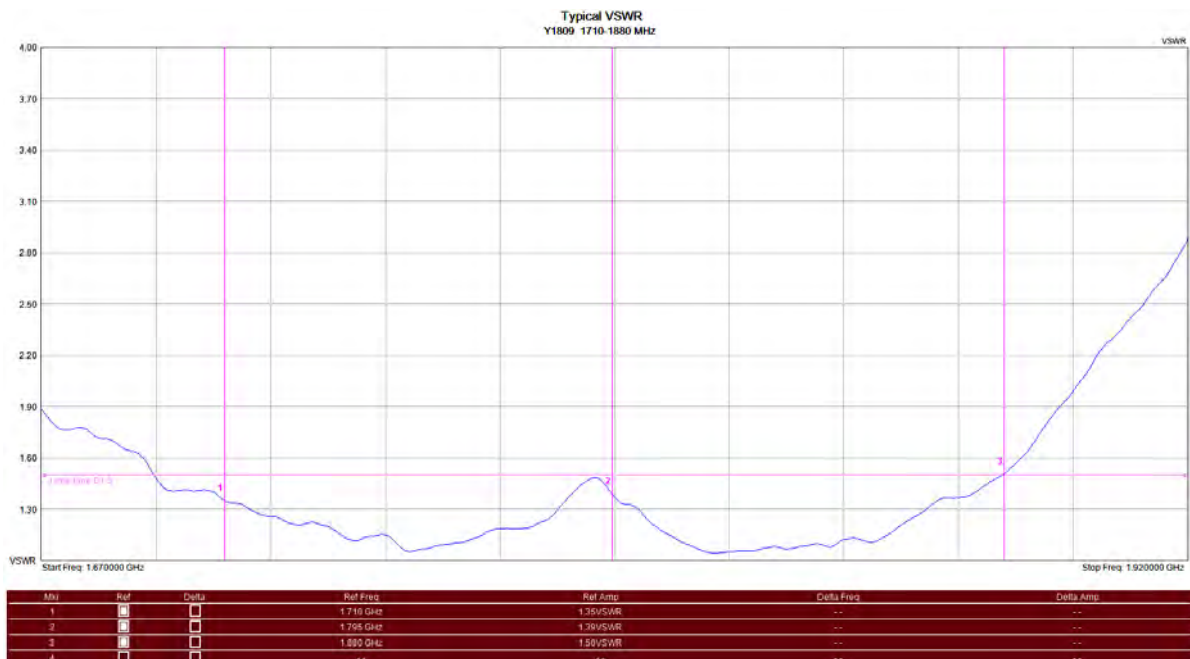
Y1809

High gain radome enclosed Yagi

All networks 4G/4G LTE mobile phone 1710-1880 MHz



Example radiation pattern







Typical VSWR

Y1809

High gain radome enclosed Yagi

All networks 4G/4G LTE mobile phone 1710-1880 MHz

Suitable mounting hardware

 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>
 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2307 - 6-piece aluminium & fibreglass mast - 6.68m</p> <p>Includes: insulated top, guy wires, spigots and base bracket.</p>

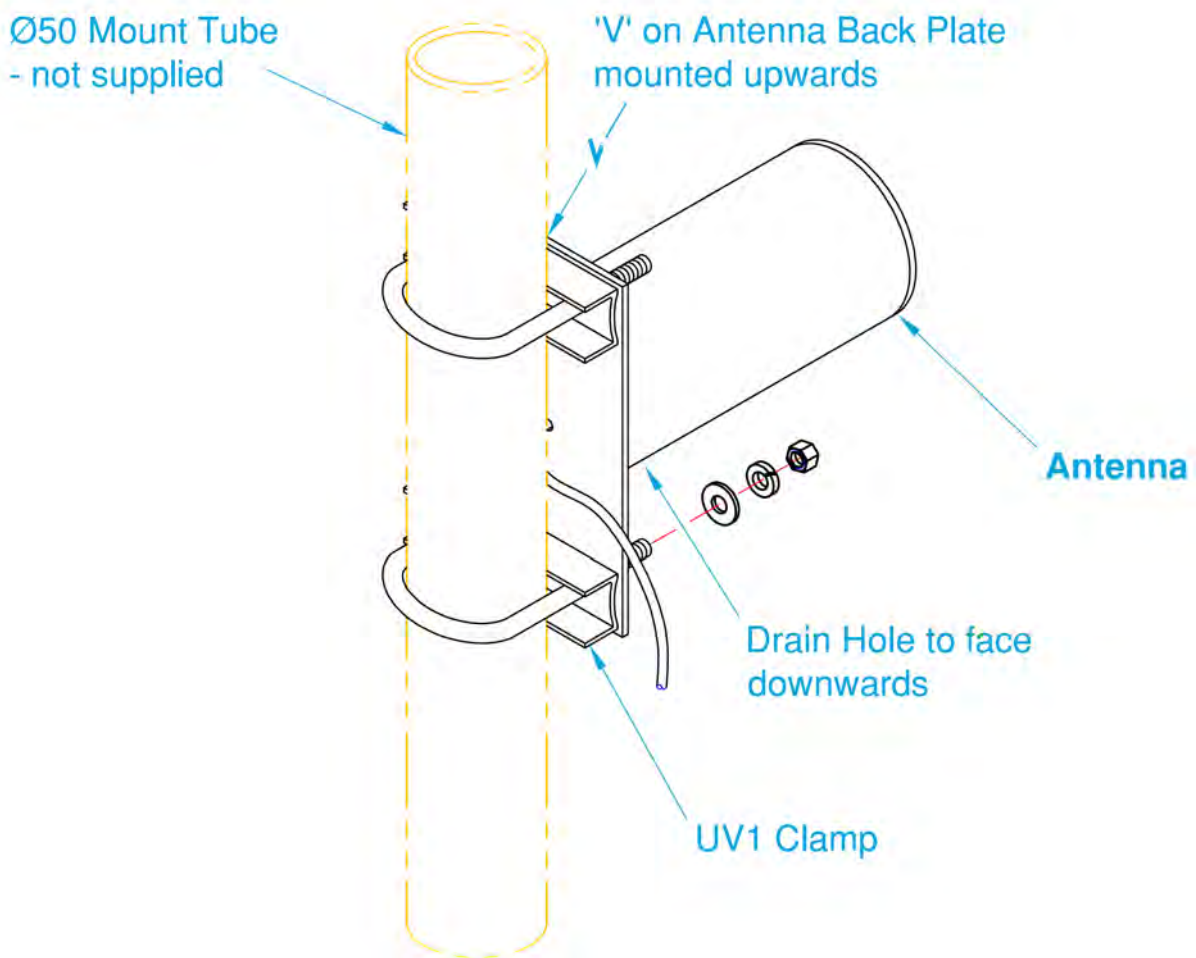
Suitable feeder coaxial cable

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (* times microwave) P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid copper conductor coaxial cable</p> <p>P/N 8226</p> <p>Tri-metal plated</p>
 <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (* times microwave) P/N 7890-3</p> <p>Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU600 low loss, solid conductor</p> <p>P/N 8226-2</p> <p>Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded, coaxial cable</p> <p>P/N NM1250SF</p> <p>Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable</p> <p>P/N NM1250</p> <p>Tri-metal plated</p>

Y1809

High gain radome enclosed Yagi

All networks 4G/4G LTE mobile phone 1710-1880 MHz



Vertical Polarisation:

Y2009

Radome enclosed high gain directional Yagi Upper 4G/3G or UHF 1900-2170 MHz

The Y2009 radome enclosed Yagi can be used for directional transmit and receive applications across the upper 4G LTE/4G frequency range 1900-2170MHz. The Y2009 Yagi only performs on a single plane, for full 4G/3G M.I.M.O. compatibility a cross or 'X' signal pattern is required.

Coaxial feeder cable, connectors and other installation accessories are all available separately.

Construction	White fibreglass radome, aluminium mounting plate, external coaxial cable and termination
Frequency range	1900-2170 MHz - Upper 4G/3G - Telstra & Vodafone within Australia
Bandwidth	Full frequency range stated - 170 MHz
VSWR	<1.5:1
Tuning	Factory
Gain	11.3 dBi
Maximum power	25 Watts
Impedance	50 Ohms
Polarisation	Mount horizontal or vertical as required
H Plane	36°
E Plane	43°
Front-to-back ratio	20 dB
DC grounding	Yes
Connector	N-type female fitted as standard or specify requirements
Length	300mm
Width	80mm
Weight	1.5kg
Projected area	0.072m ²
Wind load at 160kph	0.086kN, 8.755kg
Mounting hardware supplied	Aluminium mount plate, 2 x galvanised steel V-blocks, 2 x 50mm diameter galvanised steel U-bolts
Installation tools required	13mm spanner for U-bolt mount securing



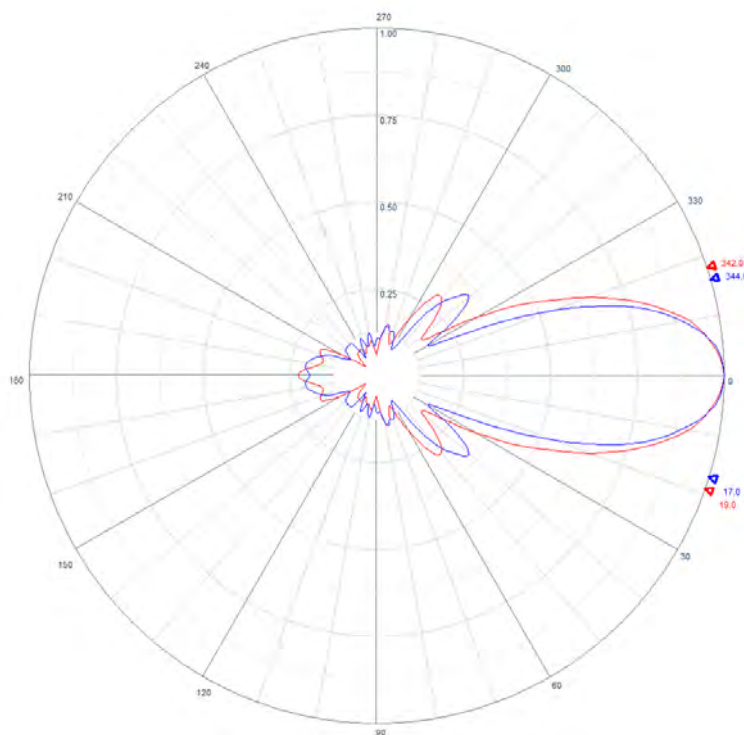
RG142 coaxial cable rear exit from mounting plate with N-type female fitted



N-type female fitted as standard or specify requirements

Y2009

Radome enclosed high gain directional Yagi
Upper 4G/3G or UHF 1900-2170 MHz







Example radiation pattern

Y2009

Radome enclosed high gain directional Yagi

Upper 4G/3G or UHF 1900-2170 MHz

Suitable mounting hardware

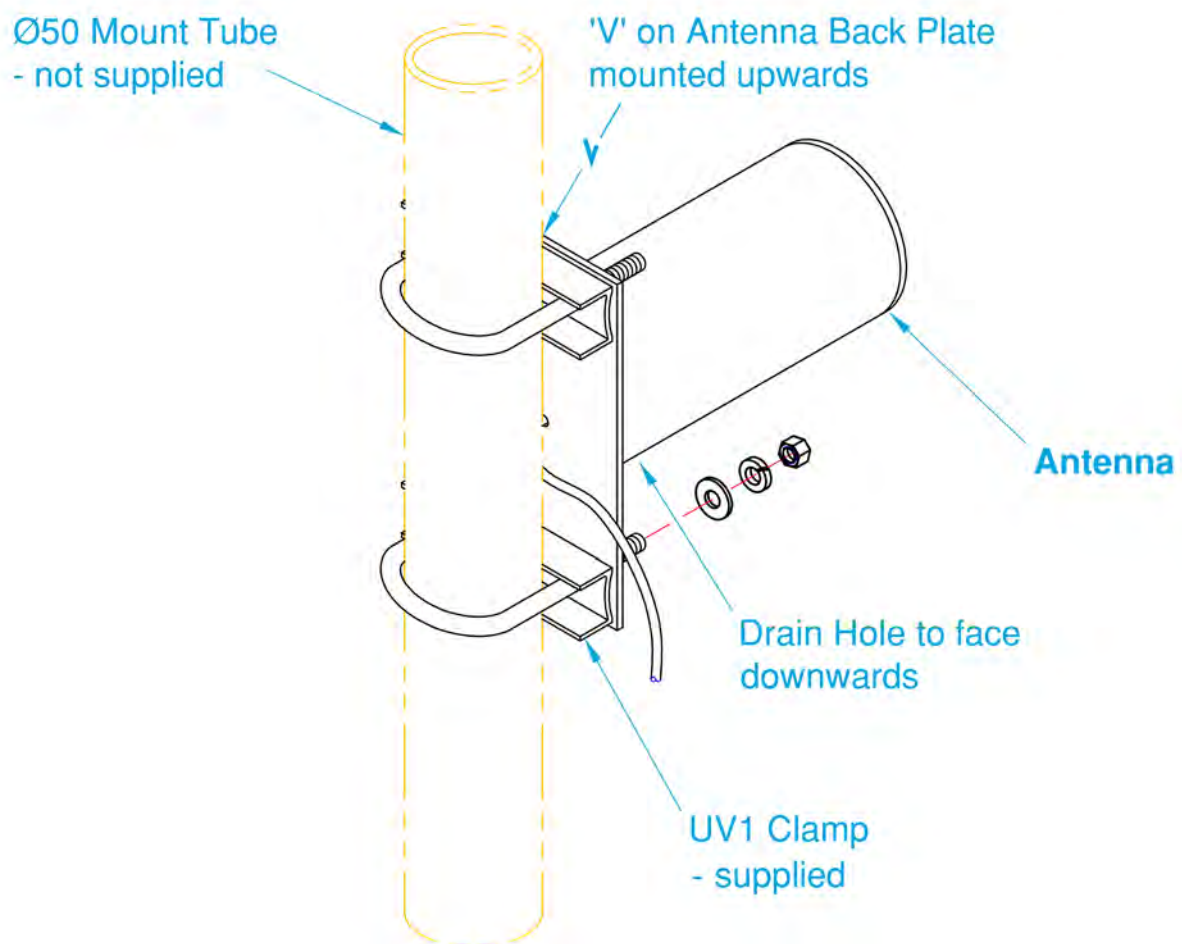
 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>
 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2307 - 6-piece aluminium & fibreglass mast - 6.68m</p> <p>Includes: insulated top, guy wires, spigots and base bracket.</p>

Suitable feeder coaxial cable

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (* times microwave) P/N 7890 Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid copper conductor coaxial cable P/N 8226 Tri-metal plated</p>
 <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (* times microwave) P/N 7890-3 Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU600 low loss, solid conductor P/N 8226-2 Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded, coaxial cable P/N NM1250SF Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250 Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable P/N NM1250 Tri-metal plated</p>

Y2009

Radome enclosed high gain directional Yagi
Upper 4G/3G or UHF 1900-2170 MHz



Vertical Polarisation:



Y3000-9

Radome enclosed directional point-to-point Yagi

UHF 3.4-3.6 GHz



The Y3000-9 mast mount Yagi's are specifically designed for directional point-to-point 3.4-3.6 GHz wireless data transmit and receive applications. The enclosed design ensures protection from damage or water ingress, increasing the service life.

Coaxial feeder cable, water-proofing, bird proofing, adaptors and other installation accessories are all available separately.

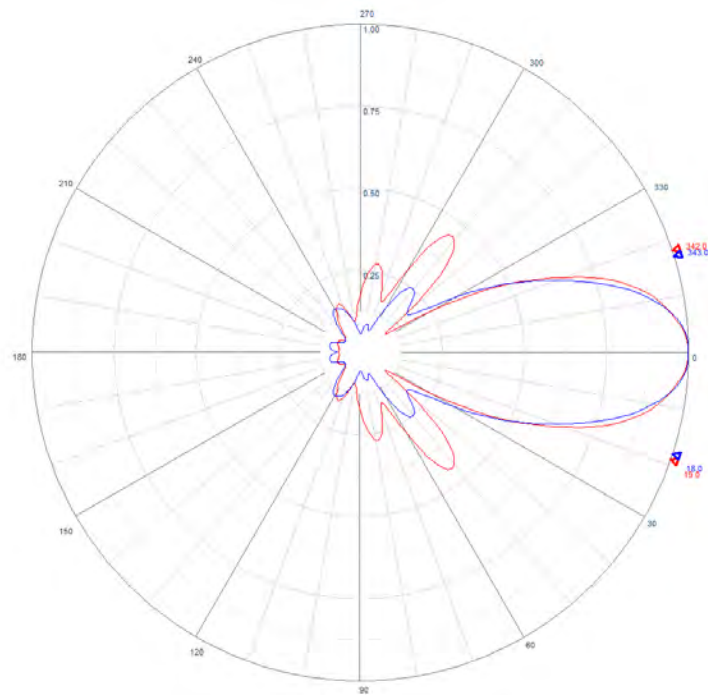
Construction	Black fibreglass radome, aluminium plate, galvanised steel mounting hardware, external coaxial cable and termination - White radome available on request
Frequency range	3.4-3.6 GHz - UHF and 5G frequency compatible
VSWR	<1.8:1 VSWR
Tuning	Factory
Number of elements	9
Gain - nominal	11.3 dBi
Maximum power	25 Watts
Impedance	50 Ohms
Polarisation	Mount horizontal or vertical as required
H Plane	35°
E Plane	35°
Front-to-back ratio	-20 dB
DC grounding	Yes
Cable	200mm RG142B/U, rear exit from plate
Connector	N-type female fitted to cable - as standard
Dimensions	300mm x 80mm
Weight	1.5kg
Projected area	0.015m ²
Wind load at 160kph	1.82kg
Mounting hardware supplied	Aluminium mount plate, 2 x galvanised steel V-blocks and 2 x 50mm diameter galvanised steel U-bolts
Installation tools required	13mm spanner for U-bolts securing



Y3000-9

Radome enclosed directional point-to-point Yagi

UHF 3.4-3.6 GHz







Example radiation pattern - Y3000-9

Y3000-9

Radome enclosed directional point-to-point Yagi

UHF 3.4-3.6 GHz

Suitable mounting hardware

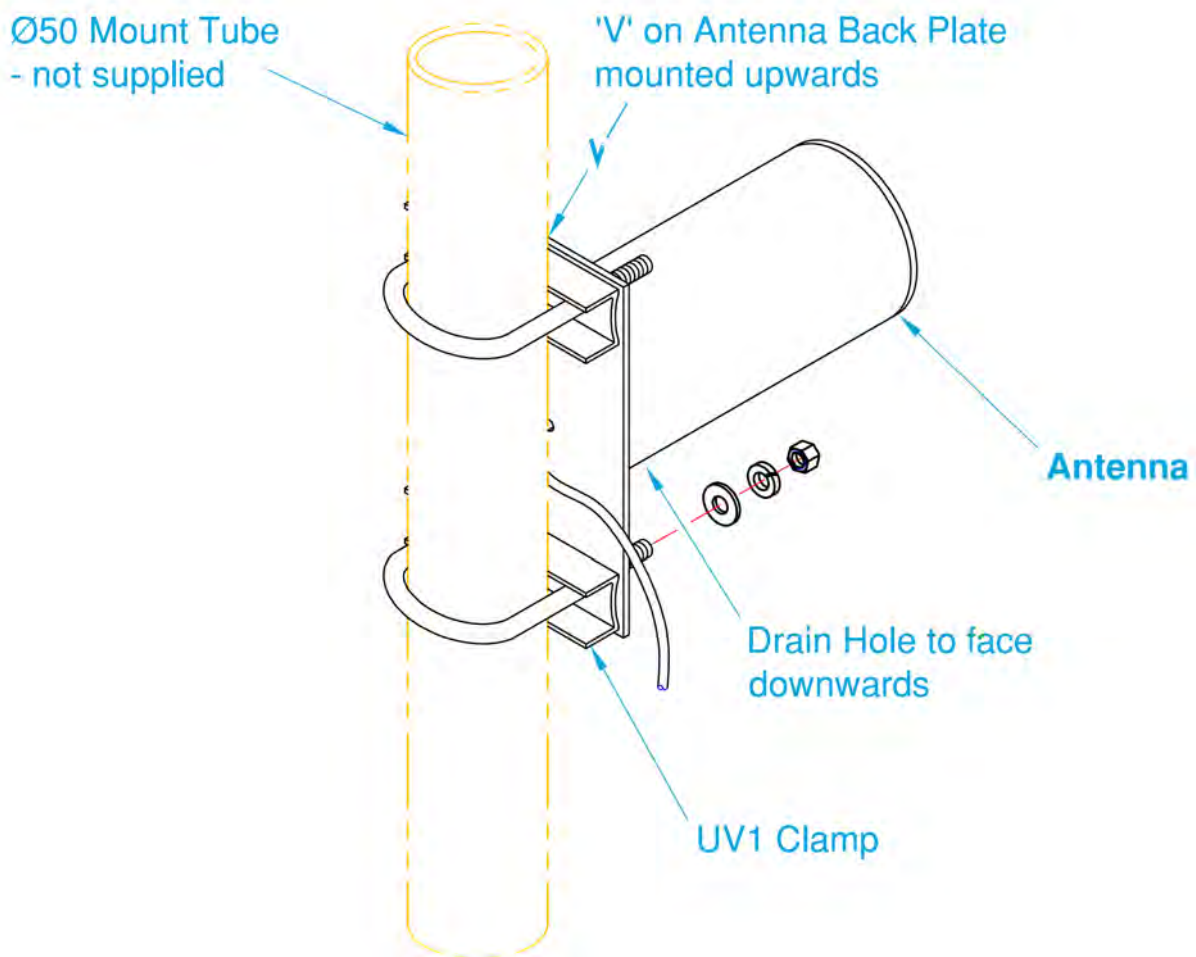
 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>
 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2307 - 6-piece aluminium & fibreglass mast - 6.68m</p> <p>Includes: insulated top, guy wires, spigots and base bracket.</p>

Suitable feeder coaxial cable and connectors

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave) P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor P/N 8226 Tri-metal plated</p>
 <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (™ times microwave) P/N 7890-3</p> <p>Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU600 low loss, solid conductor P/N 8226-2 Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable P/N NM1250SF Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable P/N NM1250 Tri-metal plated</p>

Y3000-9

Radome enclosed directional point-to-point Yagi
UHF 3.4-3.6 GHz



Vertical Polarisation:



Y1809-MIMO-2

M.I.M.O high gain radome enclosed Yagi

Upper 4G LTE/4G mobile phone 1710-1880 MHz



The Y1809-MIMO-2 mast mount enclosed Yagi is specifically designed and manufactured for directional transmit and receive utilising Multiple In, Multiple Out (M.I.M.O.) within the 4G LTE/4G upper frequency range 1710-1880 MHz.

Coaxial feeder cable, connectors and other installation accessories are all available separately.

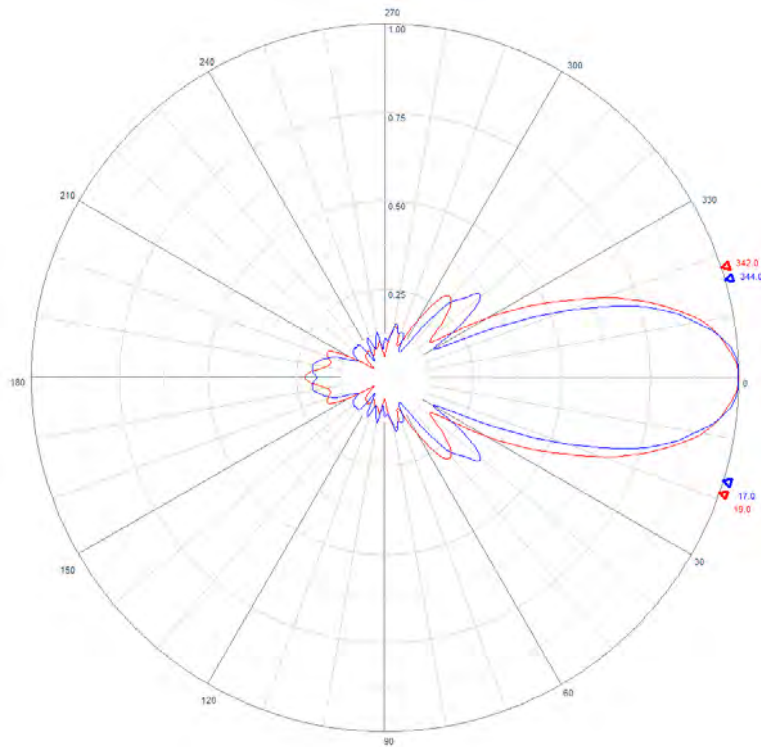


Construction	2 x white fibreglass radomes, aluminium mount plate, dual external cables and terminations	
Frequency range	M.I.M.O. 4G LTE/4G 1710-1880MHz	
Bandwidth	Full frequency range	
VSWR	Average: <1.5:1 ; Maximum: <2:1	
Tuning	Factory	
Number of elements	9	
Gain - nominal	11.3 dBi - per plane	
Maximum power	25 Watts - per input	
Impedance	50 Ohms	
Polarisation	One Yagi slant +45° and other slant -45°	
H Plane	36° - per plane	
E Plane	43° - per plane	
Front-to-back ratio	-20dB	
DC grounding	Yes	
Connector	2 x N- type female jacks fitted as standard, or specify requirements	
Cable	2 x 200mm RG142B/U, rear exit from mount plate	
Dimensions	Length: 345mm, Width: 100mm, Height: 255mm	
Weight	2.9kg	
Projected area	0.036m ²	
Wind load at 160kph	Side: 4.415kg, 0.043kN	Front: 4.035kg, 0.040kN
Mounting hardware supplied	Aluminium mount plate, 2 x galvanised steel V-blocks , 2 x 50mm diameter galvanised steel U-bolts	
Installation tools required	13mm spanners for U-bolt securing	

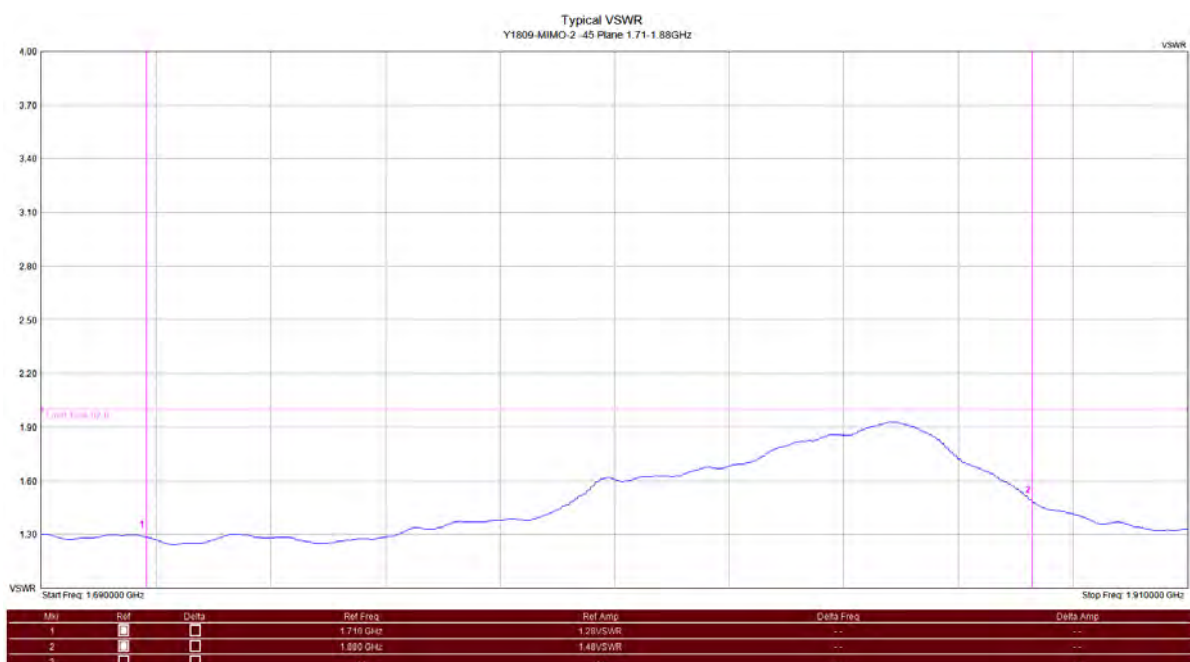


Y1809-MIMO-2

M.I.M.O high gain radome enclosed Yagi
Upper 4G LTE/4G mobile phone 1710-1880 MHz



Example radiation pattern - per plane







Typical VSWR

Y1809-MIMO-2

M.I.M.O high gain radome enclosed Yagi
Upper 4G LTE/4G mobile phone 1710-1880 MHz

Suitable mounting hardware

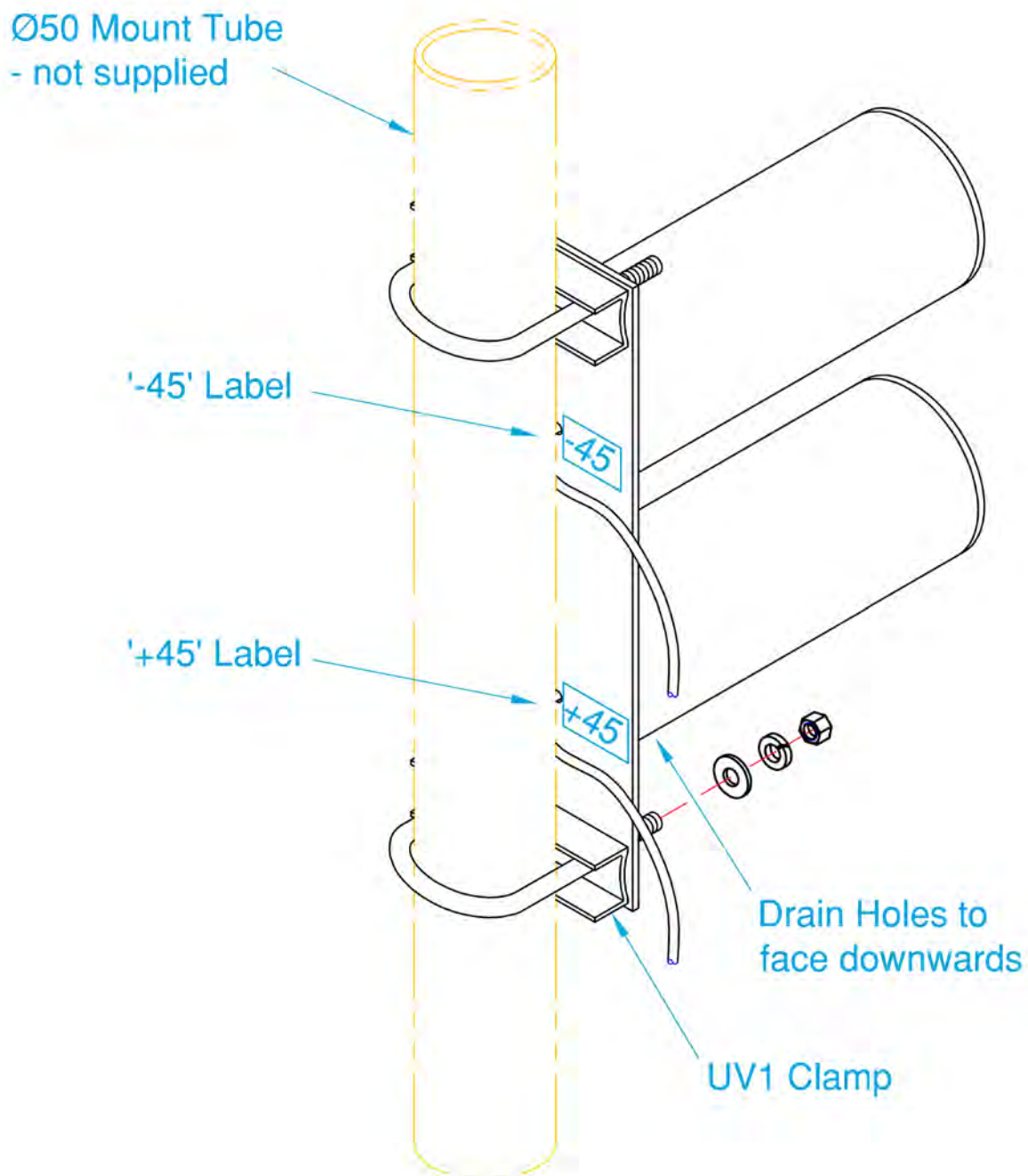
 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>
 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2307 - 6-piece aluminium & fibreglass mast - 6.68m</p> <p>Includes: insulated top, guy wires, spigots and base bracket.</p>

Suitable feeder coaxial cable and connectors

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave) P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor</p> <p>P/N 8226</p> <p>Tri-metal plated</p>
 <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (™ times microwave) P/N 7890-3</p> <p>Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU600 low loss, solid conductor</p> <p>P/N 8226-2</p> <p>Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable</p> <p>P/N NM1250SF</p> <p>Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable</p> <p>P/N NM1250</p> <p>Tri-metal plated</p>

Y1809-MIMO-2

M.I.M.O high gain radome enclosed Yagi
Upper 4G LTE/4G mobile phone 1710-1880 MHz





Y2009-MIMO-2

M.I.M.O high gain radome enclosed Yagi

Upper 4G LTE/4G mobile phone 1900-2170 MHz



The Y2009-MIMO-2 mast mount enclosed Yagi is specifically designed and manufactured for directional transmit and receive utilising Multiple In, Multiple Out (M.I.M.O.) within the 4G LTE & 4G upper frequency range 1900-2190 MHz.

Coaxial feeder cable, connectors and other installation accessories are all available separately.

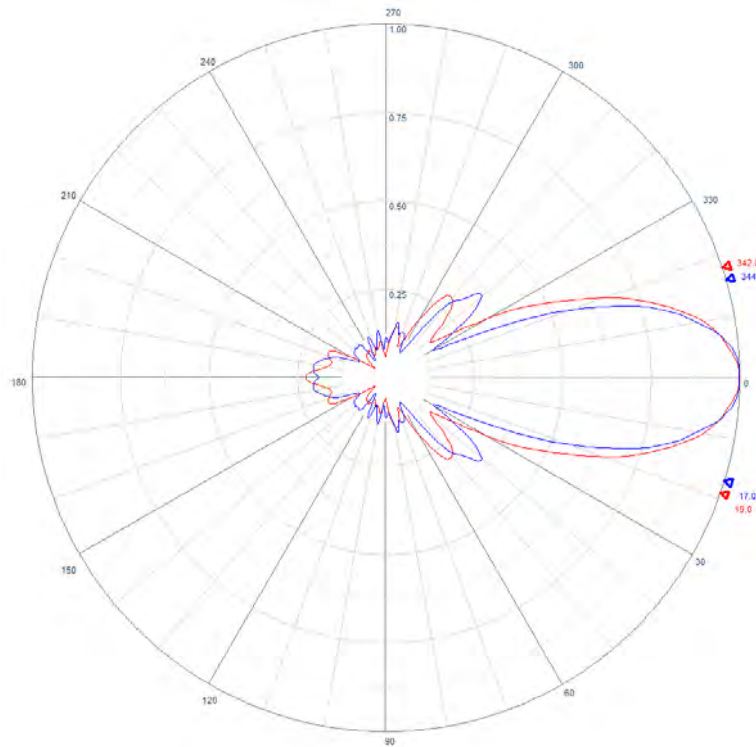


Construction	2 x white or black radome, aluminium mount plate
Frequency range	Upper 4G LTE/4G 1900-2170MHz - Telstra/Vodafone within Australia
Bandwidth	Full frequency range
VSWR	<2:1
Tuning	Factory
Number of elements	9
Gain	11.3dBi - per plane
Maximum power	25 Watts
Impedance	50 Ohms
Polarisation	Slant +45° and -45°
H Plane	36° - per plane
E Plane	43° - per plane
Front-to-back ratio	20dB
DC grounding	Yes
Connector	2 x N-type female fitted as standard - or specify alternate
Cable	2 x 200mm UV rated RG142 teflon cable
Length	290mm
Width	87mm
Weight	3.0kg
Projected area	0.03m ²
Wind load at 160kph	3.1kg
Mounting hardware	Aluminium mount plate, 2 x galvanised steel V-blocks , 2 x 50mm diameter galvanised steel U-bolts
Installation tools required	13mm spanner for mounting U-bolts

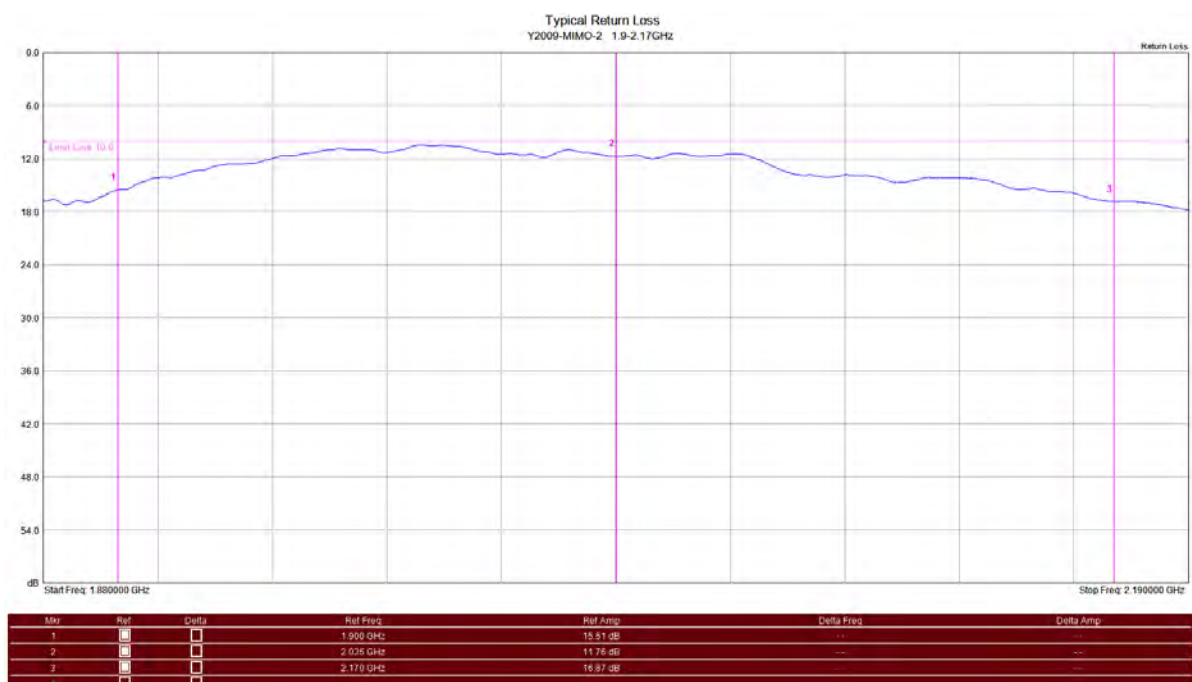


Y2009-MIMO-2

M.I.M.O high gain radome enclosed Yagi
Upper 4G LTE/4G mobile phone 1900-2170 MHz



Example radiation pattern - per plane







Typical Return Loss - per plane

Y2009-MIMO-2

M.I.M.O high gain radome enclosed Yagi

Upper 4G LTE/4G mobile phone 1900-2170 MHz

Suitable mounting hardware

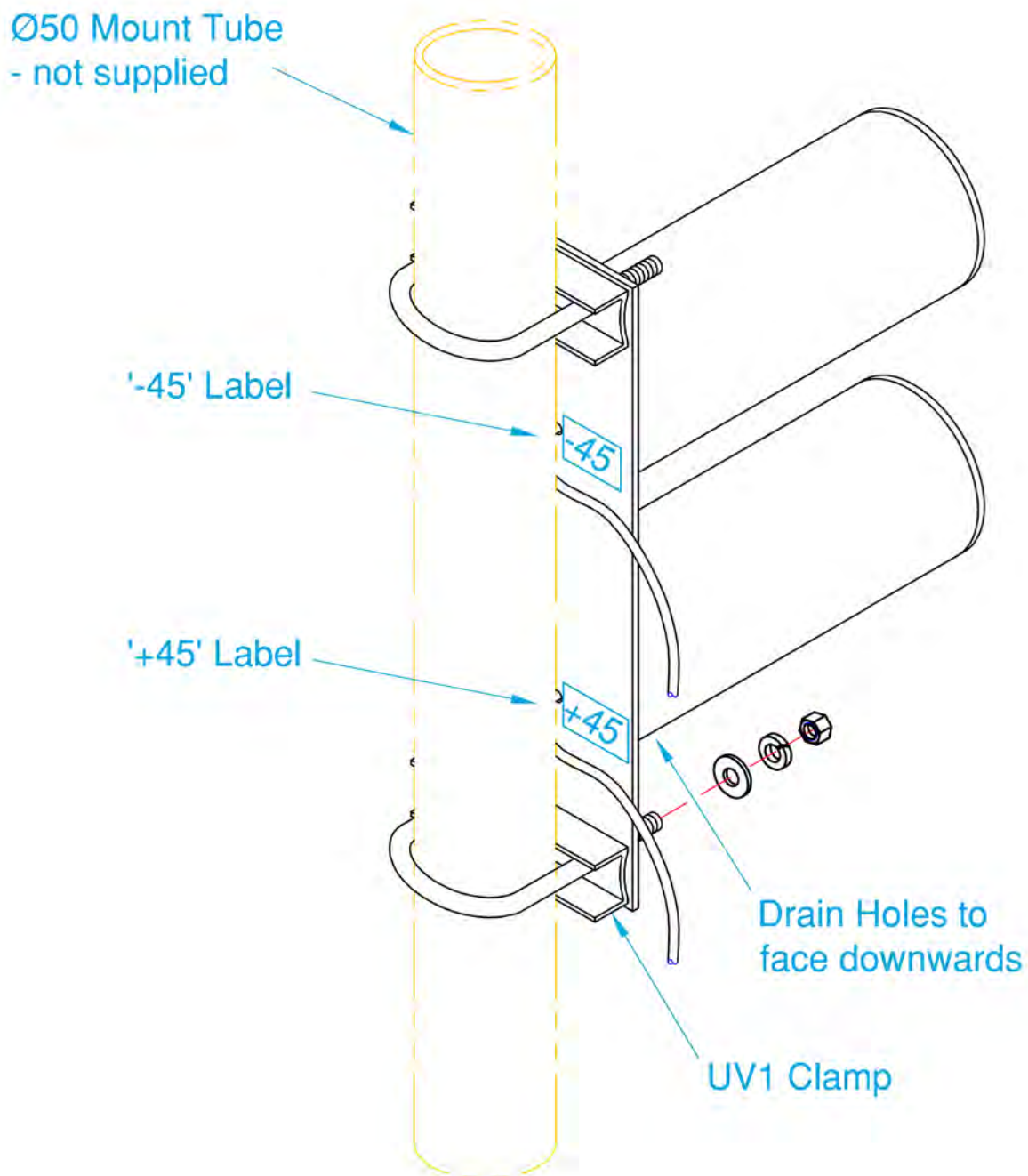
 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>
 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2307 - 6-piece aluminium & fibreglass mast - 6.68m</p> <p>Includes: insulated top, guy wires, spigots and base bracket.</p>

Suitable feeder coaxial cable and connectors

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave) P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor</p> <p>P/N 8226</p> <p>Tri-metal plated</p>
 <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (™ times microwave) P/N 7890-3</p> <p>Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU600 low loss, solid conductor</p> <p>P/N 8226-2</p> <p>Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable</p> <p>P/N NM1250SF</p> <p>Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable</p> <p>P/N NM1250</p> <p>Tri-metal plated</p>

Y2009-MIMO-2

M.I.M.O high gain radome enclosed Yagi
Upper 4G LTE/4G mobile phone 1900-2170 MHz





CT800 and CT900

Low profile ruggedised antenna

Lower 4G/3G 820-890 MHz or 890-960 MHz



If you require a mobile phone or wireless data network antenna which is small, inconspicuous and virtually indestructible, then the CT800 for Telstra 4G/3G or the CT900 for Optus & Vodafone 4G/3G antenna will be your solution.

These low profile antenna are an ideal solution where there is vulnerability to vandalism, theft or damage.

Applications suited for these antennas are:

- Trains / Trams
- Buses / Trucks
- Forklifts
- Tractors
- Forestry vehicles
- Logging trucks
- Police
- Ambulance
- Fire brigade
- Military vehicles
- Security services
- Mining vehicles

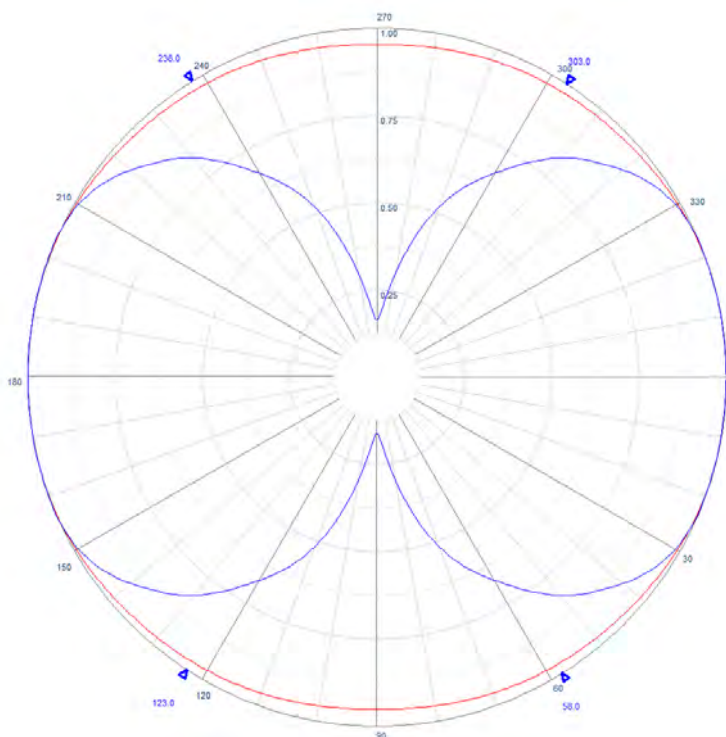
	CT800	CT900
Construction	Aluminium and delrin body, nickel plated termination and rubber mount pad	
Frequency range	825-890 MHz - lower 4G/3G Telstra & Vodafone within Australia	890-960 MHz - lower 4G/3G Optus & Vodafone within Australia
Bandwidth	Full frequency range stated	
VSWR	<1.6:1	
Tuning	Factory	
Gain - nominal	2.1 dBi	
Maximum power	5 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	Near 360° omnidirectional	
E Plane	Same as a normal 1/4 λ (wave) whip	
Connector	N-type female mounted at base of antenna	
Dimensions	Length: 150mm; Width: 32mm; Height: 32mm	
Weight	170grams	
Mounting hardware	2 x M6 bolts - not supplied	
Mounting position recommended	As high on your vehicle/ structure as possible, on a metalground plane.	





CT800 and CT900

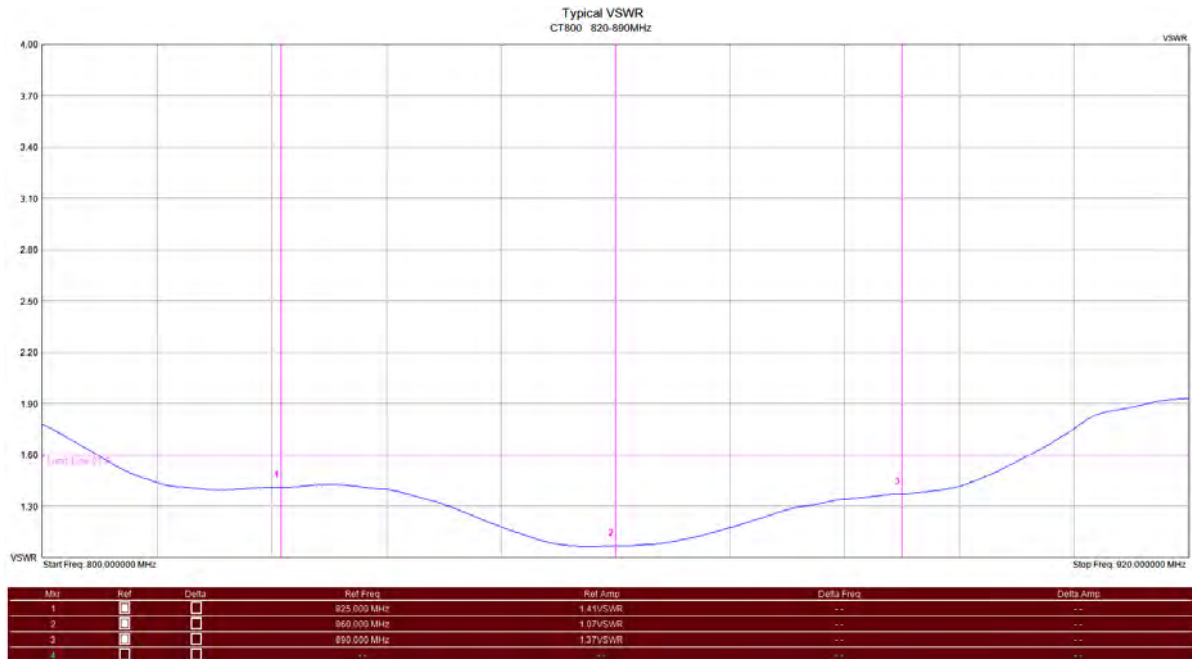
Low profile ruggedised antenna
Lower 4G/3G 820-890 MHz or 890-960 MHz



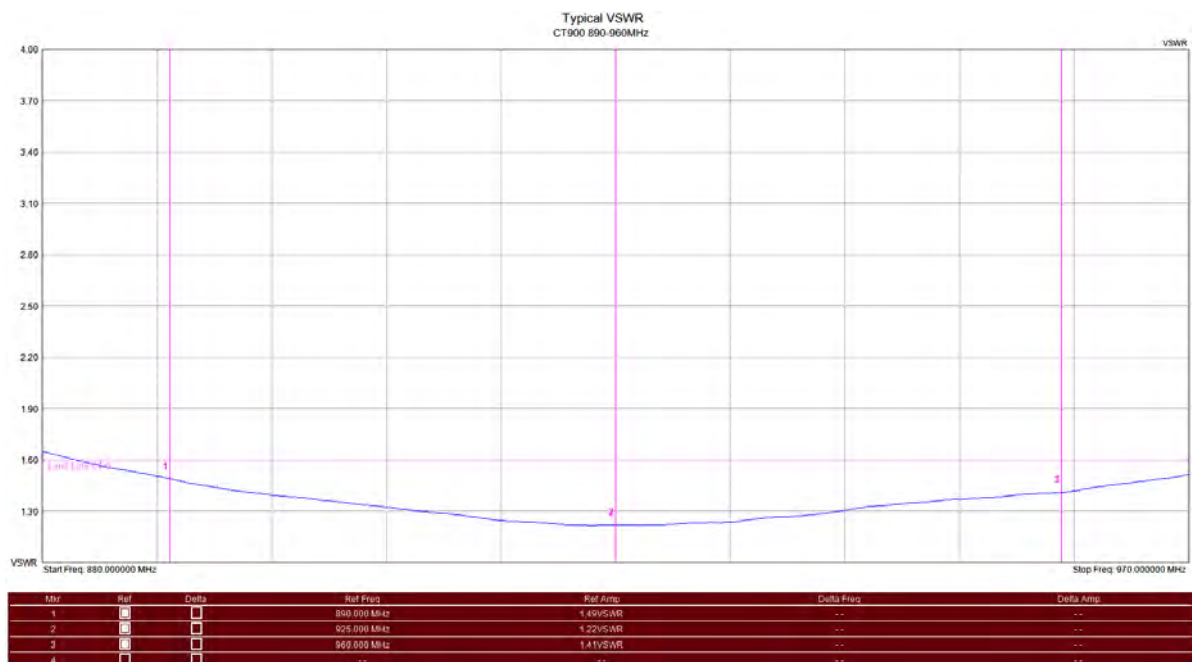
Example radiation pattern - on 1.0m x 1.0m metal ground plane

CT800 and CT900

Low profile ruggedised antenna
Lower 4G/3G 820-890 MHz or 890-960 MHz



Typical VSWR - CT800



Typical VSWR - CT900

CT800 and CT900

Low profile ruggedised antenna
Lower 4G/3G 820-890 MHz or 890-960 MHz

Suitable coaxial feeder cables



RG142 silver plated copper conductor, PTFE dielectric coaxial cable
P/N 7823-3
Available in 300m roll or alternatively request a custom cable assembly



N-type male crimp connector for RG142 solid core, PTFE insulated coaxial cable

P/N 8200

Tri-metal plated



MIL-SPEC RG58A/U stranded conductor, solid PE dielectric coaxial cable
P/N 7803
Available in 100m, 300m roll or alternatively request a custom cable assembly



N-type male crimp connector for RG58 coaxial cable

P/N 7933-2

Tri-metal plated



MIL-SPEC RG218 7 strand conductor, solid PE dielectric coaxial cable
P/N 7800
Available in 100m, 300m roll or alternatively request a custom cable assembly



N-type male crimp connector for RG213, stranded core, solid PE dielectric coaxial cable

P/N 7937

Tri-metal plated



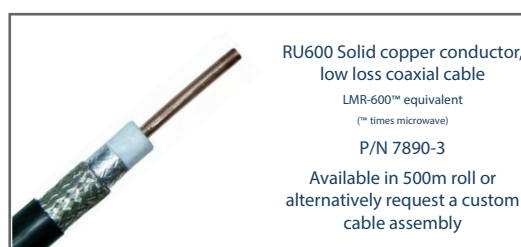
RU400 Solid copper conductor, low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(™ times microwave)
P/N 7890
Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU400 low loss, solid conductor

P/N 8226

Tri-metal plated



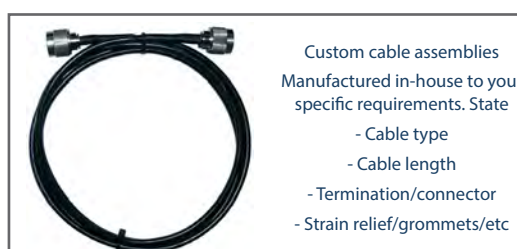
RU600 Solid copper conductor, low loss coaxial cable
LMR-600™ equivalent
(™ times microwave)
P/N 7890-3
Available in 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU600 low loss, solid conductor

P/N 8226-2

Tri-metal plated



Custom cable assemblies
Manufactured in-house to your specific requirements. State

- Cable type
- Cable length
- Termination/connector
- Strain relief/grommets/etc



GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

Page 1 of 5



The GCRFA low profile all-in-one antenna will improve mobile phone/ wireless data, L1 GPS and WiFi/WLAN reception, including 4G LTE and dualband 4G/3G.

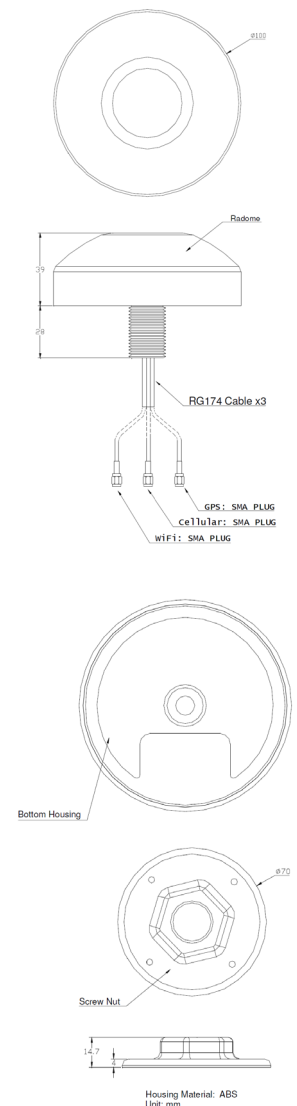
The GCRFA is suitable for mobile or fixed position installations for all environments, with the internal enclosed inside a robust ABS enclosure.

Mounting hardware, adaptors and other installation accessories are all available separately.



Construction	White ABS polycarbonate enclosure,		
Mobile phone coverage	698-800 MHz, 824-960 MHz & 1710-2170 MHz - 4G LTE, 4G/3G		
GPS frequency	1575.42 MHz - L1 GPS		
WiFi ability	2.4-2.5 GHz & 4.7-5.9 GHz - WiFi/WLAN		
Tuning	Factory		
VSWR	Cellular: 3.0:1	L1 GPS: 1.5:1	WiFi 2.4: 2.0:1 WiFi 5.8: 3.0:1
Impedance	50 Ohms		
H Plane	360° omnidirectional		
Weight	280grams		
Dimensions	Diameter: 100mm, Height: 39mm, Thread length: 28mm		
Cable	3 x 5 metre RG174/U		
Connector - fitted	3 x SMA male or specify		
Mounting requirements	Any bracket or flat surface with 20mm hole using cream ABS nut and attached rubber gasket supplied		
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 20mm hole or bracket with 20mm hole.		
Alternate models	GCRFA-10 - GCRFA with 10m cable lengths , specify terminations GCRFA-GP - GCRFA with 102mm diameter ground plane for non metallic mounting such as fibreglass or plastic.		
Installation tools required	20mm spanner for nut securing		
RoHS compliant	Yes		
Waterproof rating	IP56		

[Detailed specifications on next page...](#)





GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

Page 2 of 5



GPS active patch antenna

Frequency coverage	L1 GPS 1575.42 MHz \pm 3 MHz				
VSWR	1.5:1 - maximum				
Bandwidth	20 MHz min. at -10dB				
Gain coverage	-4dBic at -90°C 90°(over 75% volume)				
Polarisation	Right-hand circular polarised - RHCP				
Amplifier module	Amplifier gain without cable	Noise Figure	Output VSWR	DC voltage	DC current
	27dB - typical	1.8dB - typical	2.0:1 - maximum	DC 2.7V to 6.0V	8.5 \pm 4.5mA

LTE, 4G/3G Cellular module

Frequency		696-800 MHz	824-960 MHz	1710-1990 MHz	1990-2170 MHz
VSWR - maximum		3.0:1	3.0:1	3.0:1	3.0:1
Average gain	With GP*	-1.5 dBi	-2.33 dBi	-1.86 dBi	-1.52 dBi
	Without GP	-2.15 dBi	-3.33 dBi	-2.75 dBi	-2.07 dBi
Average Efficiency	With GP*	71.07%	61.60%	65.36%	70.87%
	Without GP	61.36%	48.47%	53.23%	62.58%
Peak gain	With GP*	3.79 dBi	4.11 dBi	4.94 dBi	5.91 dBi
	Without GP	3.74 dBi	3.61 dBi	2.34 dBi	4.21 dBi

WiFi module

Frequency		2.4-2.5 GHz	4.7-5.0 GHz	5.0-5.4 GHz	5.4-5.9 GHz
VSWR		2.4-2.5 GHz - 2.0:1		4.7-5.9 GHz - 3.0:1	
Impedance		50 Ohms			
Polarisation		Omnidirectional - Linear			
Power handling		25 Watts			
Average gain	With GP*	-2.15 dBi	-4.63 dBi	-3.76 dBi	-3.34 dBi
	Without GP	-2.70 dBi	-5.16 dBi	-4.31 dBi	-3.71 dBi
Average Efficiency	With GP*	61.07%	35.27%	42.87%	47.69%
	Without GP	53.88%	31.13%	37.53%	43.67%
Peak gain	With GP*	2.49 dBi	6.31 dBi	6.28 dBi	6.38 dBi
	Without GP	1.19 dBi	5.63 dBi	5.79 dBi	6.22 dBi

GP = Ground Plane
* ground plane dimensions 400mm x 400mm

Improved
Product

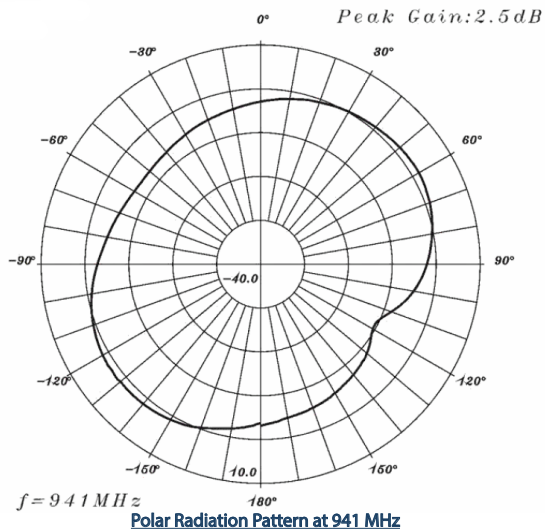
GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

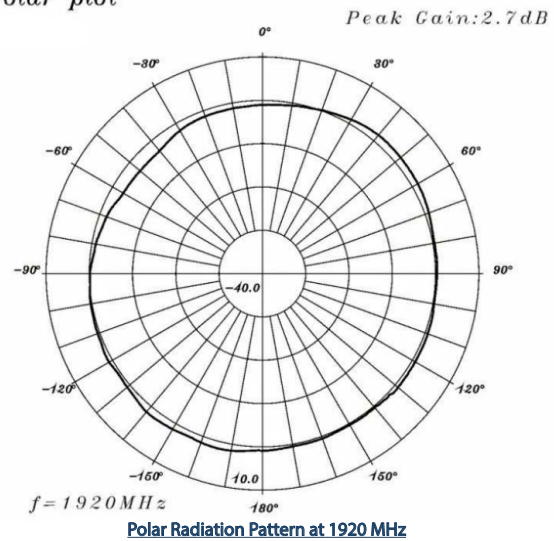
Page 3 of 5

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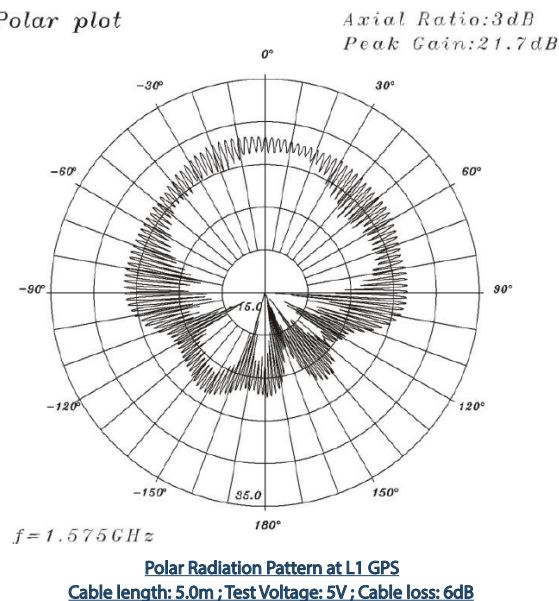
Polar plot



Polar plot



Polar plot



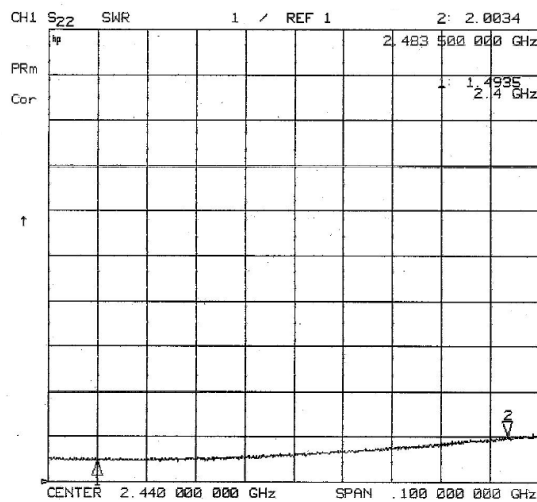
Improved
Product

GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

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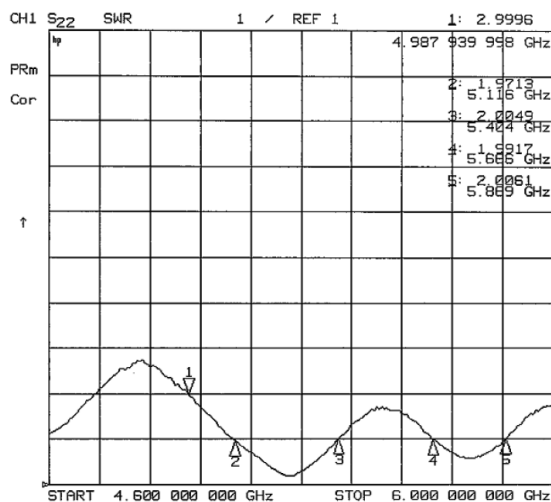
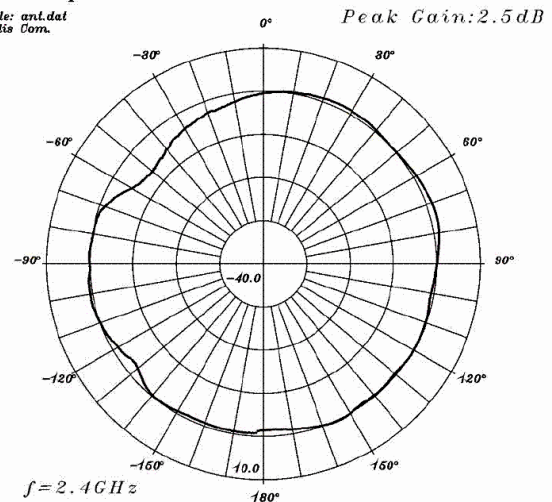
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Ready to
Ship



VSWR plot and Polar Radiation Pattern at 2.4 - 2.4835 GHz

Polar plot

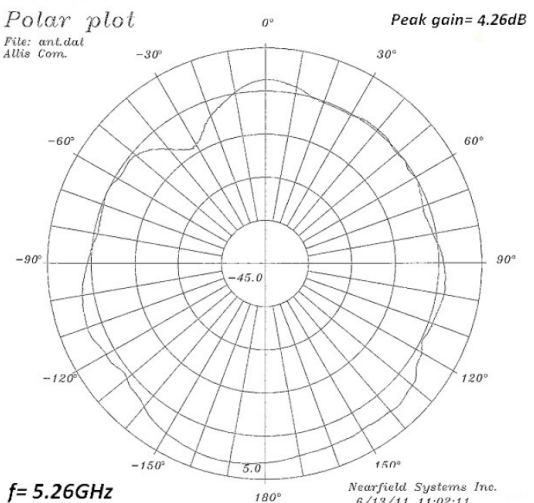
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VSWR plot and Polar Radiation Pattern at 5.0 - 5.9 GHz

Polar plot

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Improved
Product

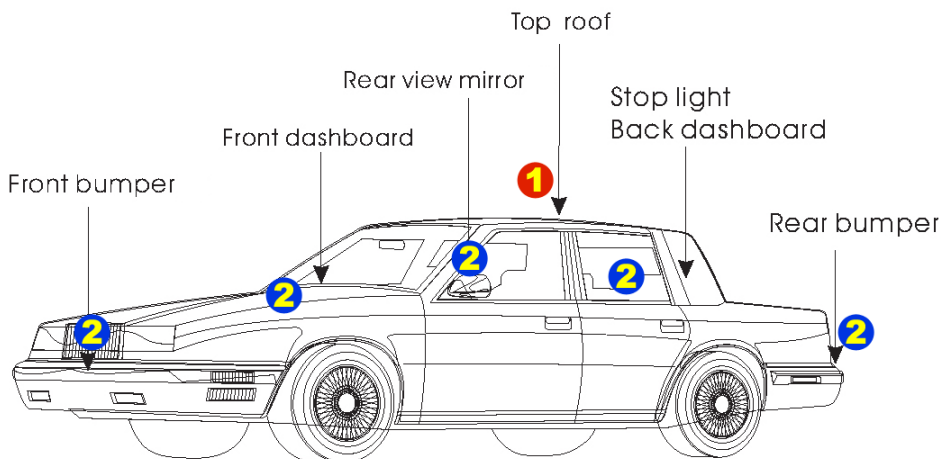
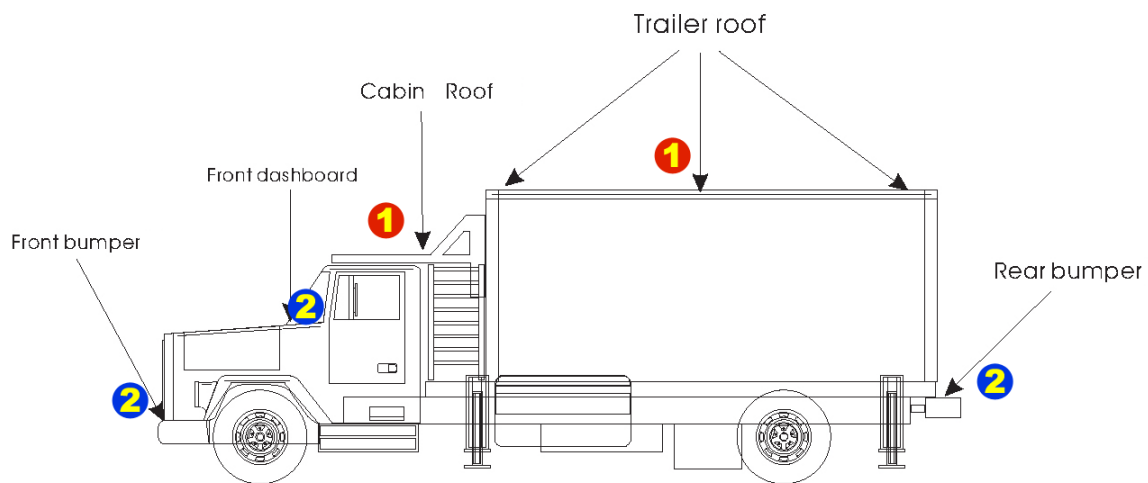
GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

Page 5 of 5


In-stock
Ready to
Ship

1 indicates an ideal location for best omnidirectional performance





ZAW-9-LTE

Low profile radome enclosed antenna - M.I.M.O. capable

L1 GPS/GLONASS, 4G LTE/4G/3G and WiFi/WLAN



The ZAW-9-LTE is designed and manufactured for L1 GPS & GLONASS, 4G LTE (can be specified M.I.M.O), 4G, 3G and WiFi/WLAN applications all inside one low profile antenna suitable for A.V.L, fleet management, emergency services or any situation that requires a low profile, robust, all-in-one antenna.

M.I.M.O-diversity configuration, adaptors, connectors, patch leads and other installation accessories are all available separately.

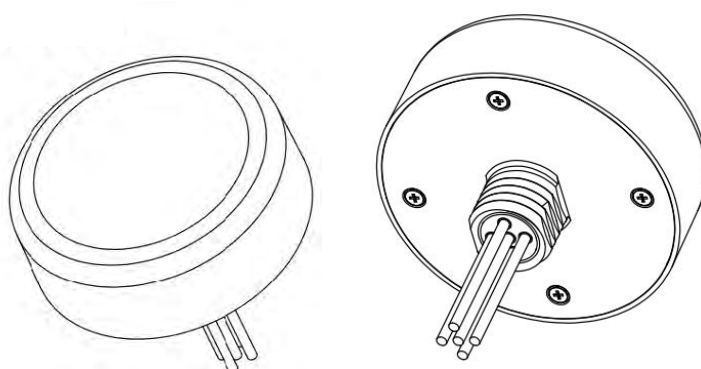


	GPS	Mobile Phone	WiFi/WLAN
Construction	Black ASA radome, zinc allow base, rubber gasket, cable assemblies and terminations		
Frequency range	1575.42 MHz - L1 GPS 1602 MHz - L1 GLONASS <u>Single lead only configuration</u>	698-960 MHz & 1710-2690 MHz 4G LTE & 4G/3G <u>Can be specified M.I.M.O - 2 leads</u>	2.4-2.5 GHz & 5.1-5.85 GHz WiFi/WLAN <u>Can be specified M.I.M.O - 2 leads</u>
Bandwidth	43 MHz at S11 < -10dB	Full frequency ranges stated	
Gain - peak	4.5 dBi	1.2 dB at 704-960 MHz 7.31 dB at 1710-2690 MHz	2.4 dB at 2.4-2.5 GHz 5.33 dB at 5.1-5.85 GHz
Polarisation	Right-hand circular	Linear, Vertical	
Noise figure	<1.5 maximum	N/A	
Attenuation	20dB min at FO ± 50 MHz	N/A	
VSWR	<1.5:1	<2:1 full frequency ranges	<2:1 full frequency ranges
Impedance	50 Ohms		
Power	DC Voltage: 2.7~5.0 Volts DC DC Current: 8~13mA	-	-
Connector	SMA male connector fitted as standard or specify requirements		
Cables	3 metres RG-174 cable per input (M.I.M.O will have 2 cables) or specify length requirements <u>Cables can be configured as required: 1-5 leads, example: 1 x GPS, 2 x Mobile Phone and 2 x WiFi</u>		
Dimensions	Diameter: 79.8mm, Height: 31mm - excluding threaded base		
Operating temperature	-35°C to +85°C		
Storage temperature	-40°C to +85°C		
Mounting hardware supplied	Mount using the attached rubber gasket, spring washer and nut using a minimum 22.2mm hole - see drawings below		
Mounting position recommended	Mount as high on your vehicle or structure as possible ensuring no obstructions such as vehicle or caravan roof, structures roof or on any flat horizontal surface/bracket - does not require a ground plane		

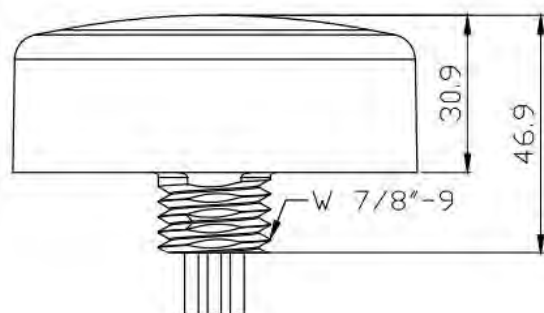
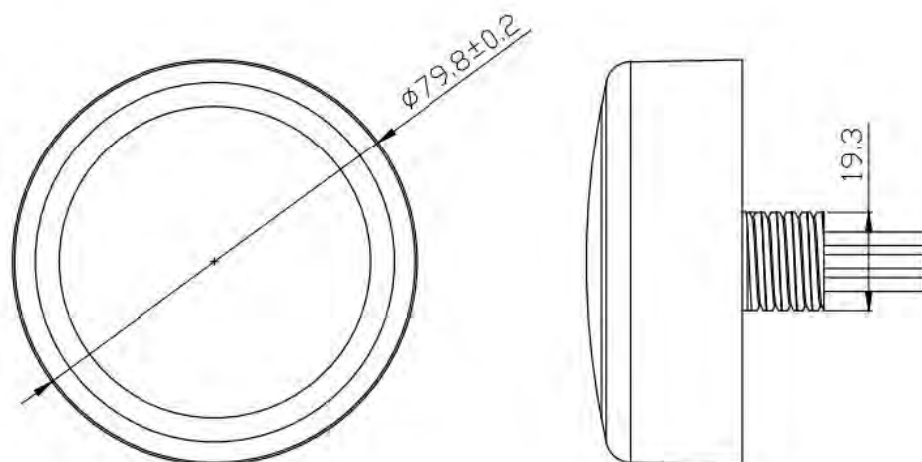
ZAW-9-LTE

Low profile radome enclosed antenna

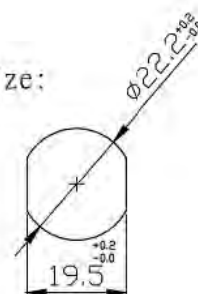
L1 GPS/GLONASS, 4G LTE/4G/3G and WiFi/WLAN



4G LTE/4G/3G and
WiFi/WLAN M.I.M.O
configuration shown



Recommended
mounting hole size:



ZAW-WiFi-4G

Low profile magnetic mount 'Hockey puck' antenna with internal LNA
Dualband 4G LTE, 4G/3G, WiFi/WLAN, L1 GPS & L1 GLONASS



The ZAW-WiFi-4G is an all-in-one all networks 4G LTE, 4G, 3G, WiFi as well as L1 GPS/GLONASS suitable for asset management/tracking, data transfer or mobile phone reception improvement all within a low profile construction.

The ZAW-WiFi-4G incorporates an internal PCB and L.N.A design to achieve a low profile and effective performance. Suitable for portable ATM's, meter boxes, vehicles or any situation where a low profile is required.

Adaptors, connectors, patch leads and other installation accessories are all available separately.



Construction	Internal PCB with L.N.A, black ABS radome, magnetic base mount and external cable assemblies
Frequency range	698-960 MHz & 1710-2690 MHz - 4G LTE & 4G/3G 2.4-2.5 GHz - WiFi/WLAN 1575.42 MHz - L1 GPS 1602 MHz - L1 GLONASS
Bandwidth	Full frequency ranges stated
Peak gain	698-960 MHz: -0.7 dBi; 1710-2690 MHz + WiFi/WLAN: 5.5 dBi GPS + GLONASS: 4.5 dBi
Polarisation	Cellular/WiFi: Vertical - linear GPS/GLONASS: R.H.C.P.
VSWR	Mobile Phone/WiFi: <2.0:1 - will change with different terminations GPS/GLONASS: <1.5:1
Impedance	50 Ohms
Maximum power	5 Watts
Connector	3 x SMA male fitted to cables or specify requirements
Cable	3 x 3.0m RG174A/U - side exit from radome
Dimensions	Diameter: 80mm, Height: 15mm
Weight	80grams
Operating temperature	-35°C to +85°C
Storage temperature	-40°C to +90°C
Mounting hardware	Base mounted magnetic pad
Mounting position recommended	Mount the antenna onto any flat magnetic surface. Ensure mounting surface is free from debris, dirt or contaminants that may cause loss of magnetic adhesion



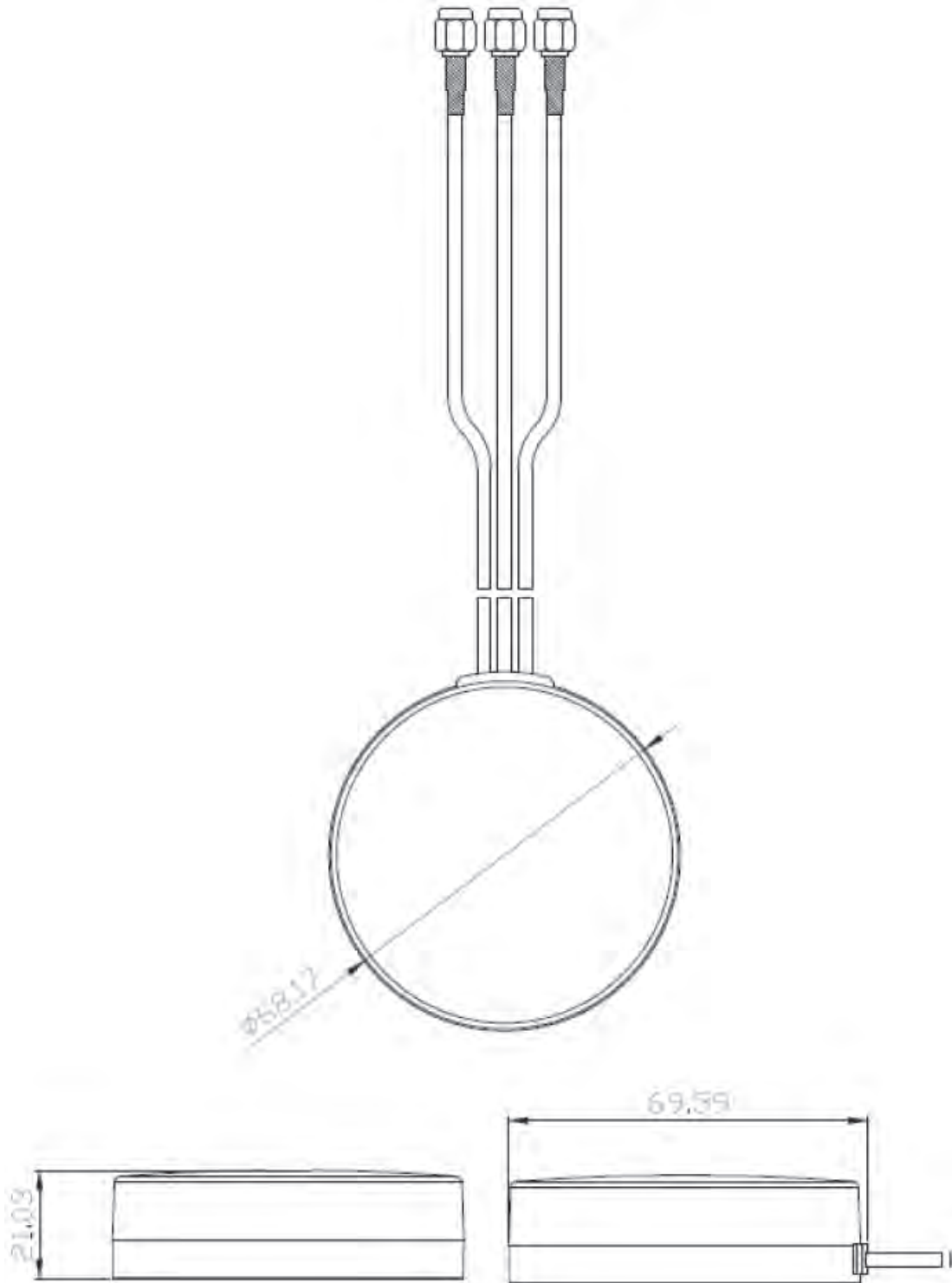
SMA male terminations fitted as standard or specify requirements.

L.N.A.	
LNA Gain	28 ± 2dB
VSWR	<1.5:1
Noise Figure	<1.5
DC Voltage	2.7~5V
DC Current	8~13mA



ZAW-WiFi-4G

Low profile magnetic mount 'Hockey puck' antenna with internal LNA
Dualband 4G LTE, 4G/3G, WiFi/WLAN, L1 GPS & L1 GLONASS



ZAU-GPSWL-5

All-in-one 'Shark-fin' low profile antenna

4G LTE, 4G/3G, L1 GPS and WiFi/WLAN


In-stock
Ready to
Ship

The ZAU-GPSWL-5, 4G LTE/4G/3G, L1 GPS and WiFi 'shark-fin' antenna is perfect for A.V.L. tracking, L1 GPS navigation, and telemetry applications, all within a low profile, fully water-proof design.

Adaptors, patch leads and other installation accessories are all available separately.



	Mobile phone	L1 GPS	WiFi
Construction	Black moulded radome, zinc alloy base, external cable assemblies, <u>no terminations</u>		
Frequency range	698-960 MHz, 1710-2170 MHz and 2300-2700 MHz - 4G LTE + 4G/3G	1575.42 MHz - L1 GPS	2.4-2.5 GHz - WiFi/WLAN
Bandwidth	Full frequency ranges stated	±5 MHz	Full frequency range
Gain - typical	698-960 MHz: 2 dBi 1710-2190 MHz: 3 dBi 2300-2700 MHz: 3.5 dBi	Peak gain: 3 dBi - with 7cm x 7cm ground plane	2.15 dBi
Gain coverage	-	>-4dBi at -90 <0 <+90 - over 75% volume	-
Polarisation	Linear	Right-hand circular	Vertical
VSWR	2.0:1	≤1.5:1	
Impedance	50 Ohms		
LNA gain - typical	28dBi - without cable		
LNA noise figure	1.5dB		
Filter out band attenuation	7dB min. 1575.42 MHz, +/- 20 MHz,		
DC Voltage	2.7-5.0 Volts	DC current	11mA maximum
Cable	3 x 2, 3 or 5m RG174 - Mobile phone, GPS and WiFi - specify requirements		
Connectors	SMA/SMB/SMC/BNC/FME/TNC/MCX/MMCX/QMA - specify requirements for each cable		
Working temperature	-40°C to +85°C		
Storage temperature	-45°C to +100°C		
Dimensions	Height: 84mm, Width: 53.8mm, Length: 62mm		
Overall weight	240grams		
Mounting	ZCG recommend for greater than 1mm thickness mounting material remove spacer washer from base and run all cables through nut supplied.		
Installation tools required	22mm spanner for nut securing		



For mounting material thicker than 1mm ZCG recommend removing spacer washer and inserting cables through nut.



Example of connectors fitted to each cable: GPS & WiFi - QMA male and LTE - SMA male

Please specify requirements when ordering.

ZCG-EEH-L01

Radome enclosed omni-directional low profile

4G LTE, 4G/3G & WiFi/WLAN 704-960 MHz & 1710-2690 MHz


In-stock
Ready to
Ship

Ideal applications for the ZCG-EEH-L01 are:

- Wireless data communications
- Wireless monitoring/ telemetry
- Mobile phone network improvement

Mounting hardware, cable assemblies and other installation accessories are all available separately.



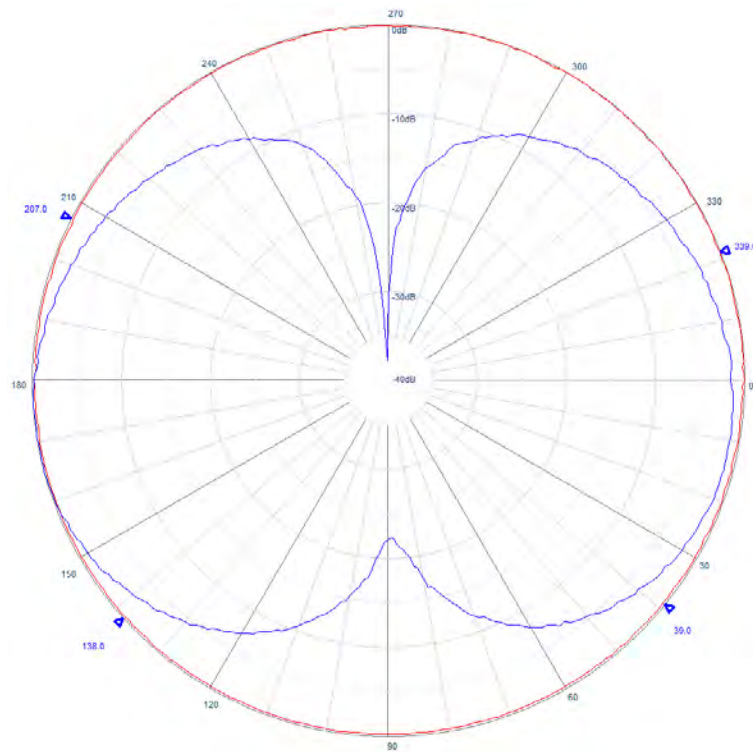
Construction	Black ASA radome, rubber gasket and chrome termination
Frequency range	704-960 MHz & 1710-2690 MHz 4G LTE, 4G/3G + WiFi/WLAN (IEEE.802.11b/g/n)
Bandwidth	Full frequency ranges stated
VSWR	<2.7:1
Tuning	Factory
Gain	2.1 dBi at 704-960 MHz and 2.75 dBi at 1710-2690 MHz
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Linear, Vertical
Connector	N-type female bulkhead in base - no cable
Operating temperature	-40°C to +80°C
Storage temperature	-40°C to +85°C
Dimensions	Diameter: 42mm, Height: 75.6mm
Weight	121grams
Mounting hardware order separate	Use suitable bracket/hole with a 16mm hole such as BBM-SS, MRM-SS, GM1 or GM6, using the rubber gasket, toothed washer and hex nut supplied
Mounting position recommended	Mount as high on vehicle/structure as possible using appropriate bracket or mount hole.
Installation tools required	19mm spanner for nut securing
Waterproof rating	IP67



ZCG-EEH-L01

Radome enclosed omni-directional low profile

4G LTE, 4G, 3G & WiFi/WLAN 704-960 MHz & 1710-2690 MHz



Example radiation pattern

ZCG-EEH-L01

Radome enclosed omni-directional low profile

4G LTE, 4G, 3G & WiFi/WLAN 704-960 MHz & 1710-2690 MHz



Recommended installation accessories

 <p>MRM - wrap around mirror mount, 20mm diameter tube</p> <p>16mm mount hole</p> <p>Requires 10mm spanner</p>	 <p>BBM Series - wrap around bull bar mount, 50-90mm diameter tube</p> <p>16mm mount hole</p> <p>Requires 10mm spanner</p>
 <p>GM1 - stainless steel 'L' mount bracket.</p> <p>16mm mount hole</p>	 <p>A-6211 - stainless steel fascia/wall mount bracket</p> <p>16mm mount hole</p>
 <p>MGB</p> <p>Black powdercoated magnetic mount base - 105mm dia.</p> <p>16.5mm antenna mount hole</p> <p>Includes scratch reduction pad on base</p>	 <p>MGB</p> <p>Black powdercoated magnetic mount base - 180mm dia.</p> <p>16.5mm antenna mount hole</p> <p>Includes scratch reduction pad on base</p>

Suitable feeder coaxial cable and connectors

 <p>Ultra flexible, 7 stranded core coaxial cable</p> <p>LMR240-UF™ equivalent (™ times microwave)</p> <p>P/N 7876-2</p> <p>Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU240-UF coaxial cable</p> <p>P/N 7987</p> <p>Tri-metal plated</p>
 <p>MIL-SPEC RG213 stranded core, braid shielded coaxial cable</p> <p>P/N 7800</p> <p>Available in 100m, 300m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for MIL-SPEC RG213 coaxial cable</p> <p>P/N 7937</p> <p>Tri-metal plated</p>
 <p>RU400 Solid copper conductor, low loss coaxial cable</p> <p>CNT-400 / LMR-400™ equivalent (™ times microwave)</p> <p>P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss solid copper core coaxial cable</p> <p>P/N 8226</p> <p>Tri-metal plated</p>

ZCG-EEH-L01FC

Fixed cable omni-directional radome enclosed low profile
4G LTE, 4G/3G and WiFi/WLAN 704-960 MHz & 1710-2690 MHz



The ZCG-EEH-L01FC fixed cable low profile antenna will improve mobile phone device reception and transmission range. Being an enclosed unit, the internals are weatherproofed to ensure a long service life.

Ideal applications for the ZCG-EEH-L01FC are:

- Data communication
- Wireless monitoring
- M2M/LoRa or IoT applications
- Mobile phone network improvement

Mounting hardware, adaptors, coaxial cable, connectors and other installation accessories are all available separately.

	ZCG-EEH-L01FC	ZCG-EEH-L01-SMA
Construction	Black radome, rubber gasket, chrome fittings and external cable	
Frequency range	704-960 MHz & 1710-2690 MHz 4G LTE, 4G/3G + WiFi/WLAN (IEEE.802.11b/g/n)	
Bandwidth	Full frequency ranges	
VSWR	<1.8:1	
Tuning	Factory	
Gain	2.1 dBi - average, 2.75 dBi peak	
Maximum power	5 Watts	
Impedance	50 Ohms	
Polarisation	Linear, Vertical	
Cable	2.0m x RG58 bottom exit or specify requirements	1.0m RG58 bottom exit
Connector	FME female as standard or specify requirements	Gold plated SMA male fitted as standard
Operating temperature	-40°C to +80°C	
Storage temperature	-40°C to +85°C	
Dimensions	42mm diameter x 75.6mm height	
Weight	121grams	
Mounting hardware	13.4mm mounting thread, Rubber gasket, toothed washer and nut - supplied	
Installation tools required	19mm spanner for nut securing	



ZCG-EEH-L01FC



FME female fitted as standard or specify requirements



ZCG-EEH-L01-SMA



SMA male fitted as standard with red identification



Cable exit from bottom of antenna through threaded mount.

ZCG-EEH-L01-NC

Fixed cable omni-directional radome enclosed low profile
4G LTE, 4G/3G and WiFi/WLAN 704-960 MHz & 1710-2690 MHz



The ZCG-EEH-L01-NC fixed cable low profile antenna will improve mobile phone device reception and transmission range. Being an enclosed unit, the internals are weatherproofed to ensure a long service life.

Ideal applications for the ZCG-EEH-L01-NC are:

- Data communication
- Wireless monitoring
- M2M/LoRa or IoT applications
- Mobile phone network improvement

Mounting hardware, adaptors, coaxial cable, connectors and other installation accessories are all available separately.



Construction	Black radome, rubber gasket, chrome fittings and external cable
Frequency range	704-960 MHz & 1710-2690 MHz 4G LTE, 4G/3G + WiFi/WLAN (IEEE.802.11b/g/n)
Bandwidth	Full frequency ranges
VSWR	<1.8:1
Tuning	Factory
Gain	2.1 dBi - average, 2.75 dBi peak
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Linear, Vertical
Cable	4.0m x RG58 bottom exit or specify requirements
Connector	<u>No termination</u> supplied, order separate
Operating temperature	-40°C to +80°C
Storage temperature	-40°C to +85°C
Dimensions	42mm diameter x 75.6mm height
Weight	121grams
Mounting hardware	13.4mm mounting thread ,Rubber gasket, toothed washer and nut - supplied
Installation tools required	19mm spanner for nut securing



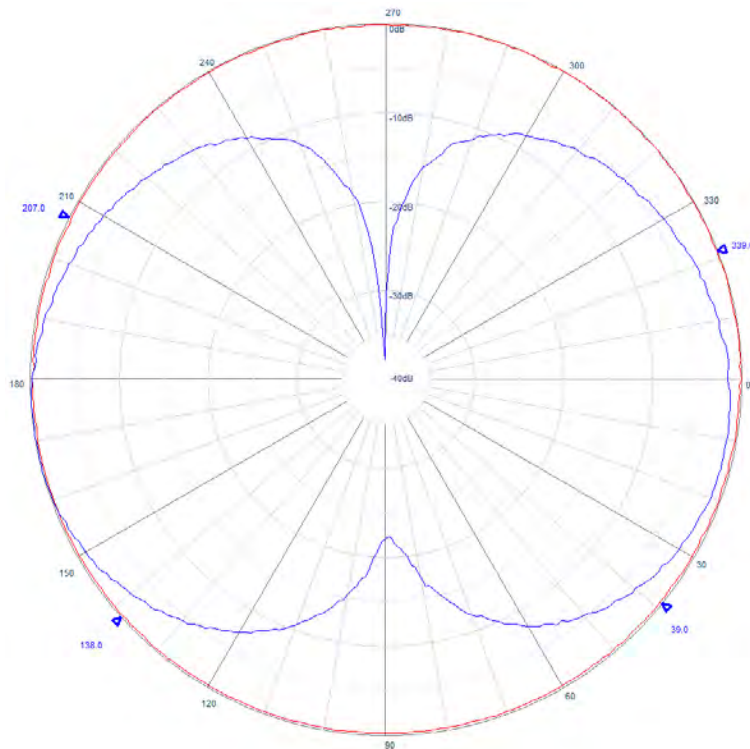
ZCG-EEH-L01-NC
Please note: no termination



Cable exit from bottom of antenna through threaded mount.

ZCG-EEH-L01-NC

Fixed cable omni-directional radome enclosed low profile
4G LTE, 4G/3G and WiFi/WLAN 704-960 MHz & 1710-2690 MHz



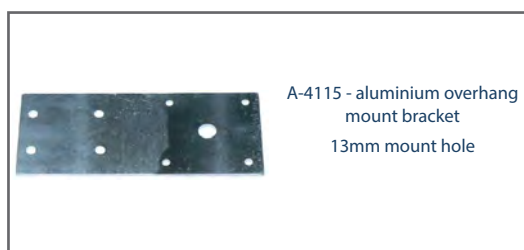
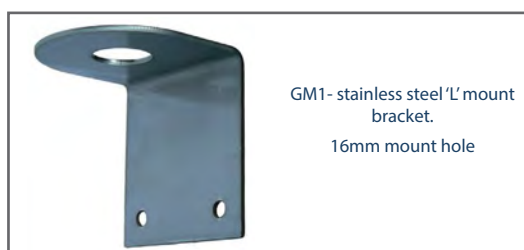
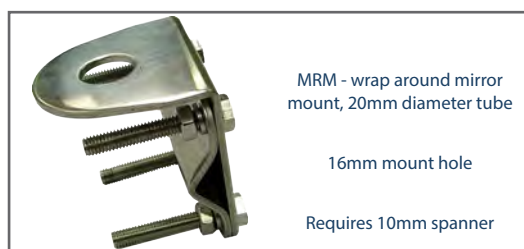
Example radiation pattern

ZCG-EEH-L01-NC

Fixed cable omni-directional radome enclosed low profile
4G LTE, 4G/3G and WiFi/WLAN 704-960 MHz & 1710-2690 MHz



Recommended installation accessories



Typical connectors/terminations



ZD8Z-XP-MIMO

Slant polarised MIMO N-type wireless data panel

4G LTE, 4G/3G & WiFi/WLAN 698-960 MHz & 1710-2700 MHz


In-stock
Ready to
Ship

The ZD8Z-XP-MIMO is a slant polarised panel covering the entire Telstra, Optus & Vodafone 4G LTE, 4G & 3G mobile phone networks combined, utilising Multiple In, Multiple Out (M.I.M.O.) capability.

With the panel being an enclose antenna, the radiating internals have minimal exposure to damage or moisture ingress.



Construction	UV protected ABS radome, aluminium back screen and tilt adjustable mount bracket
Frequency range	698-960 MHz & 1710-2700 MHz 4G LTE, 4G/3G and WiFi/WLAN compatible
Bandwidth	Full frequency ranges stated
VSWR	<2.0:1
Tuning	Factory
Gain - nominal	8 dBi
Polarisation	Slant +45° and -45°
Isolation	>25dB
Front-to-back ratio	>23dB
Maximum power	50 Watts
Impedance	50 Ohms
H Plane	65°
E Plane	60°
Connector	2 x N-type female
P.I.M.	2 x 43dBm Carrier <-140dBc
Panel dimensions	310mm x 310mm x 150mm
Weight	3.0kg
Working temperature range	-40°C to + 70°C
Wind load at 160kph	Front: 11.641kg, 0.114kN Side: 5.633kg, 0.055kN
Mounting hardware	Mounting bracket supplied for rear of panel for up to diameter 80mm mount pole capability
Installation tools required	Amalgamation butyl rubber tape and PVC tape for connector sealing







ZD8Z-XP-MIMO

Slant polarised MIMO N-type wireless data panel

4G LTE, 4G/3G & WiFi/WLAN 698-960 MHz & 1710-2700 MHz



Suitable mounting hardware

 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>
 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2307 - 6-piece aluminium & fibreglass mast - 6.68m</p> <p>Includes: insulated top, guy wires, spigots and base bracket.</p>

Suitable feeder coaxial cable and connectors

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (* times microwave) P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor</p> <p>P/N 8226</p> <p>Tri-metal plated</p>
 <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (* times microwave) P/N 7890-3</p> <p>Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU600 low loss, solid conductor</p> <p>P/N 8226-2</p> <p>Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable</p> <p>P/N NM1250SF</p> <p>Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable</p> <p>P/N NM1250</p> <p>Tri-metal plated</p>

ZD8Z-XP-716-MIMO

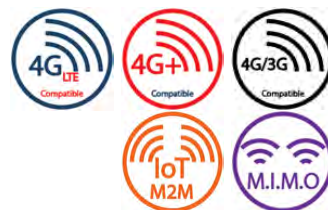
Slant polarised MIMO 7/16" DIN wireless data panel

4G LTE, 4G/3G & WiFi/WLAN 698-960 MHz & 1710-2700 MHz


In-stock
Ready to
Ship

The ZD8Z-XP-716-MIMO is a slant polarised panel covering all available networks 4G LTE, 4G/3G mobile phone networks and WiFi/WLAN combined, utilising Multiple In, Multiple Out (M.I.M.O.) capability.

Coaxial feeder cable, connectors and other installation accessories are all available separately.



Construction	UV protected ABS radome, aluminium back screen and tilt adjustable mount bracket
Frequency range	698-960 MHz & 1710-2700 MHz 4G LTE, 4G/3G and WiFi/WLAN compatible
Bandwidth	Full frequency ranges stated
VSWR	<2.0:1
Tuning	Factory
Gain - nominal	8 dBi
Polarisation	Slant +45° and -45°
Isolation	>25dB
Front-to-back ratio	>23dB
Maximum power	100 Watts
Impedance	50 Ohms
H Plane	65°
E Plane	60°
Connector	2 x 7/16" DIN female - N-type female model available
P.I.M.	2 x 43dBm Carrier <-140dBc
Panel dimensions	310mm x 310mm x 150mm
Weight	3.0kg
Working temperature range	-40°C to + 70°C
Wind load at 160kph	Front: 11.641kg, 0.114kN Side: 5.633kg, 0.055kN
Mounting hardware	Mounting bracket supplied for rear of panel for up to diameter 80mm mount pole capability
Installation tools required	Amalgamation butyl rubber tape and PVC tape for connector sealing







ZD8Z-XP-716-MIMO

Slant polarised MIMO 7/16" DIN wireless data panel

4G LTE, 4G/3G & WiFi/WLAN 698-960 MHz & 1710-2700 MHz



Suitable mounting hardware

 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>
 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2307 - 6-piece aluminium & fibreglass mast - 6.68m</p> <p>Includes: insulated top, guy wires, spigots and base bracket.</p>

Suitable feeder coaxial cable and connectors

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave)</p> <p>P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	<p>N-type male crimp connector for RU400 low loss, solid conductor</p> <p>P/N 8226</p> <p>Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable</p> <p>P/N ZCG1250SF</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>7/16" DIN male clamp connector for 1/2" super flexible, helical shielded coaxial cable</p> <p>P/N 716DINM1250SF</p> <p>Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable</p> <p>P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>7/16" DIN male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable</p> <p>P/N 716DINM1250</p> <p>Tri-metal plated</p>
 <p>7/8" corrugated shielding, foam dielectric coaxial cable</p> <p>P/N ZCG7850</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>7/16" DIN male clamp connector for 7/8" flexible, corrugated shielded, coaxial cable</p> <p>P/N 716DINM7850</p> <p>Tri-metal plated</p>

ZMP-698-2700

Low Profile M.I.M.O slant polarised interior panel

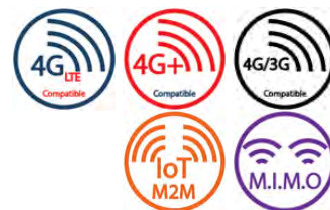
4G LTE, 4G/3G & WiFi/WLAN 698-2700 MHz



The ZMP-698-2700 is a slant polarised interior panel covering the entire 4G LTE, 4G & 3G mobile phone networks and 2.4GHz WiFi, utilising Multiple In, Multiple Out (M.I.M.O.) capability.

With the panel being an enclose antenna, the radiating internals have minimal exposure to damage or moisture ingress.

Coaxial feeder cable, connectors and other installation accessories are all available separately.



Construction	UV protected ABS radome, aluminium back screen
Frequency range	698-960 MHz, 1710-2250 MHz and 2490-2700 MHz 4G LTE, 4G/3G & WiFi/WLAN compatible
Bandwidth	Full frequency ranges stated
VSWR	698-960 MHz: <2.0:1 1710-2700 MHz: <1.5:1
Tuning	Factory
Gain - nominal	698-960 MHz: 6.5-7 dBi 1710-2250 MHz: 8-9 dBi 2490-2700 MHz: 7.5 dBi
Polarisation	+45° and -45°
Isolation	23dB
PIM3	≤-140@2 x 43dBm
Maximum power	698-960 MHz: 100 Watts 1710-2700 MHz: 50 Watts
Impedance	50 Ohms
H Plane	60-78° - depending on frequency
E Plane	55-75° - depending on frequency
Connector	2 x-type female fitted to cables, bottom exit from panel
Panel dimensions	315mm x 200mm x 73mm
Weight	500grams
Mounting position recommended	Interior wall mount using 2 rear holes



Ceiling mount mobile phone

Low profile vertical radome enclosed 'dome' antenna

UHF, 4G LTE, 4G & 3G



These ceiling mount mobile phone panels are suitable for use UHF communications and mobile phone wireless data improvement. The low profile design blends in with the roof profile.

Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.



	ZCM-698-6000		ZCM-806-2500
Construction	UV protected ABS radome, aluminium base plate, securing nut, external coaxial cable and termination		
Frequency range	380-960 MHz and 1395-6000 MHz UHF, 5G, 4G LTE, 4G/3G and WiFi/WLAN		806-960 MHz and 1710-2500 MHz 4G/3G & WiFi/WLAN
Bandwidth	Full frequency ranges stated		
VSWR	<2.0:1		<1.5:1
Tuning	Factory		
Gain - nominal	380-960 MHz 1.7-2.8 dBi	1395-6000 MHz 5.7-5.5 dBi	3 dBi
Polarisation	Vertical		
Maximum power	50 Watts		100 Watts
Impedance	50 Ohms		
H Plane	360° omnidirectional		
E Plane	55°		
Connector	N-type female jack connector fitted to cable as standard, exits from base		
DC grounding	Yes		
Panel dimensions	Height: 133mm Diameter: 298mm		Height: 90mm Diameter: 170mm
Weight	1.0kg		500grams
Working temperature range	-45°C to + 65°C		
Wind load at 160kph	4.801kg, 0.047kN		1.853kg, 0.018kN
RoHS compliant	Yes		



ZCM-698-6000



ZCM-806-2500

5G mobile phone panel

M.I.M.O or horizontal and vertical

UHF/5G 3.3-3.8 GHz



MOQ 100 Units

These UHF/5G 3.5GHz panels are either Multiple In, Multiple Out (M.I.M.O) or vertical and horizontal suitable for mobile and wireless data improvement. The low profile design allows for reduced space requirements.

Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.



	ZMP-1835-65XP	ZP-1935R-DP	ZP-1935RF-DP
Construction	UV protected ABS radome, aluminium base plate and chrome termination		
Frequency range	3.3-3.8 GHz - 5G M.I.M.O	3.3-3.8 GHz - 5G, C-band N-78	
Bandwidth	Full frequency range stated		
VSWR	Typical <1.5:1	Typical <1.5:1 - max. 2.0:1	
Tuning	Factory		
Gain - nominal	2 x 16 dBi	2 x 19 dBi	
Polarisation	+45° and -45°	Vertical and horizontal	
Maximum power	200 Watts	50 Watts	
Front-to-back ratio	> -18dB	-	-
Cross Pol. Ratio	>15dB at 0°, >10 at 90°	-	-
Isolation	>25dBm		
Impedance	50 Ohms		
H Plane	120°	18°	
E Plane	7°	18°	
Connector	2 x N-type female on rear of panel	N-type female fitted to rear of panel	
Panel dimensions	Height: 760mm Width: 114mm Depth: 54mm	Height: 320mm Width: 320mm Depth: 25mm	Height: 320mm Width: 320mm Depth: 75mm
Weight	2.0kg	2.5kg	3.5kg
Wind load 160kph	Front: 11.871kg, 0.116kN Side: 4.240kg, 0.042kN	Front: 12.404kg, 0.122kN Side: 0.969kg, 0.009kN	Front: 12.404kg, 0.122kN Side: 2.907kg, 0.028kN
Mounting positions recommended	Adjustable mounting brackets on rear of panel	Rear mount U-bolt and adjustable bracket	
Installation tools required	10mm spanner for U-bolt and bracket securing		



ZMP-1835-65XP



ZP-1935R-DP



ZP-1935RF-DP

5G or wireless data panel

Slant 45° or vertical and horizontal

5G or UHF 3.3-3.8 GHz



These 5G mobile phone panels are available in either +/- 45° slant or vertical and horizontal polarisation suitable for 5G mobile and wireless data improvement. The low profile design allows for reduced space requirements.

Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.



	ZP-1935R-XP	ZP-1935RE-XP
Construction	UV protected ABS radome, aluminium base plate and chrome termination	UV protected ABS radome, aluminium base plate, chrome termination and extended rear enclosure
Frequency range	3.3-3.8 GHz - UHF & 5G C-band N-78 compatible	
Bandwidth	Full frequency range stated - 500 MHz	
VSWR	Typical <1.5:1 - max. 1.8:1	
Tuning	Factory	
Gain - nominal	2 x 19 dBi	
Polarisation	Slant/cross polarised +45° and -45°	
Maximum power	50 Watts	
Isolation	>25dB	
Impedance	50 Ohms	
H Plane	18°	
E Plane	18°	
Connector	N-type female on rear of panel	
Panel dimensions	Height: 320mm Width: 320mm Depth: 25mm	Height: 320mm Width: 320mm Depth: 75mm
Weight	2.5kg	3.5kg
Wind load at 160kph	Front: 12.404kg, 0.122kN Side: 0.969kg, 0.009kN	Front: 12.404kg, 0.122kN Side: 2.907kg, 0.028kN
Mounting	Adjustable mounting brackets on rear of panel 30-50mm capability	



ZP-1935R-XP



ZP-1935RE-XP

Horizontal and vertical models on following page.

5G or wireless data panel

Slant 45° or vertical and horizontal

5G or UHF 3.3-3.8 GHz



These 5G mobile phone panels are available in either +/- 45° slant or vertical and horizontal polarisation suitable for 5G mobile and wireless data improvement. The low profile design allows for reduced space requirements.

Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.



	ZP-1935RF-DP	ZP-2335IF-DP
Construction	UV protected ABS radome, aluminium base plate and chrome termination	
Frequency range	3.3-3.8 GHz - UHF & 5G C-band N-78 compatible	
Bandwidth	Full frequency range stated - 500 MHz	
VSWR	Typical <1.5:1 - max. 1.8:1	
Tuning	Factory	
Gain - nominal	2 x 19 dBi	2 x 23 dBi
Polarisation	Vertical and Horizontal	
Maximum power	50 Watts	
Front-to-back ratio	-	>28dB
Isolation	>25dB	>30dB
Impedance	50 Ohms	
H Plane	18°	9°
E Plane	18°	9°
Connector	N-type female on rear of panel	N-type female bottom exit from panel
Panel dimensions	Height: 330mm Width: 330mm Depth: 75mm	Height: 450mm Width: 450mm Depth: 70mm
Weight	3.5kg	
Wind load at 160kph	Front: 13.191kg, 0.129kN Side: 2.998kg, 0.029kN	Front: 24.529kg, 0.240kN Side: 3.816kg, 0.037kN
Mounting	Adjustable mounting brackets on rear of panel 30-50mm capability	



ZP-1935RF-DP



ZP-2335IF-DP

Mobile phone improvement

Low profile panel antennas

4G LTE, 4G/3G and WiFi/WLAN



These 4G LTE or 4G and WiFi panels are suitable for interior or exterior use for mobile and wireless data improvement. The low profile design allows for reduced space requirements.

Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.



	ZP-806-2500	ZP-806-2500-E	ZP-698-2700
Construction	UV protected ABS radome, aluminium base plate and cable assembly		
Frequency range	806-960 MHz & 1710-2500 MHz - 4G LTE, 4G/3G & WiFi/WLAN	806-960 MHz and 1710-2500 MHz 4G/3G & WiFi/WLAN	698-960 MHz & 1710-2700 MHz - 4G LTE, 4G/3G & WiFi/WLAN
Bandwidth	Full frequency ranges stated		
VSWR	<1.5:1		<1.5:1 max. 2.0:1
Tuning	Factory		
Gain - nominal	7 dBi		698-960 MHz: 7 dBi 1710-2170 MHz: 9 dBi 2.2-2.7 GHz: 8 dBi
Polarisation	Vertical		
Maximum power	100 Watts		50 Watts
Impedance	50 Ohms		
H Plane	70°		60-70°
E Plane	50°		55-70°
Connector	N-type female fitted to 300mm cable, bottom exits from panel	N-type female or male fitted to cable, bottom exit from panel- specify when ordering	SMA female in base
Panel dimensions	Height: 210mm Width: 180mm Depth: 44mm		Height: 100mm Width: 70mm Depth: 68mm
Weight	600grams		500grams
Interior/exterior	Interior	Exterior	Interior or exterior
Wind loading at 160kph	-	Front: 4.579kg, 0.045kN Side: 1.119kg, 0.011kN	Front: 0.848kg, 0.008kN Side: 0.824kg, 0.008kN
Mounting positions recommended	Designed for wall mounting	Rear mount U-bolt and bracket	Wall mount with 2 holes on rear



ZP-806-2500



ZP-806-2500-E



ZP-698-2700

UHF Mobile Phone Sector Panel

Radome enclosed, 2 x 7/16" DIN female low P.I.M.

UHF & Mobile Phone 1710-2170 MHz



The ZP-CP172-15 series of sector panels are suitable for UHF mobile phone applications within the 1710-2170 MHz frequency range. The low wind loading and low profile design make them suitable for side of structure or tower mounting.

The ZP-CP1721-15 model has adjustable mounting hardware allowing for mechanical down-tilt, the ZP-CP1721F-15 does not allow this capability.

Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.

	ZP-CP1721-15		ZP-CP1721F-15
Construction	Grey fibreglass radome, low P.I.M. terminations and galvanised steel mounting hardware		
Frequency range	1710-2170 MHz - upper 4G/3G or UHF		
Bandwidth	Full frequency range stated - 460 MHz		
VSWR	<1.4:1 across full frequency range		
Tuning	Factory		
Gain - nominal	14.3-14.8 dBi - depending on frequency		
Polarisation	+/- 45° slant/cross polarised		
Isolation: intra-system	>30dB		
Sidelobe suppression	>16dB - first sidelobe above main beam		
Electrical downtilt	6°		
Maximum power	300 Watts - per input		
Impedance	50 Ohms		
H Plane	1710-1880MHz at 66°	1850-1990MHz at 65°	1920-2170MHz at 63°
E Plane	1710-1880MHz at 13.5°	1850-1990MHz at 12.5°	1920-2170MHz at 11.5°
Intermodulation - IM3	2 x 43dBm carrier - <150dBc		
Front-to-back ratio	>25dB		
Connector	2 x 7/16" DIN female - low P.I.M.		
Panel dimensions	Height: 760mm, Width: 160mm, Depth: 80mm		
Weight	4.1kg		
Wind loading at 160kph	Front: 14.73kg, 0.144kN, Side: 7.365kg, 0.072kN		
Mounting hardware supplied	Adjustable mechanical down-tilt 0~10° bracket on rear of panel	Fixed tilt mounting hardware on rear of panel	



PD-NN2-8002700

2-Way power divider / splitter for STL links UHF / Mobile Phone 800-2700MHz



The PD-NN2-8002700 is a 2-way power divider or power splitter suitable for UHF, Mobile phone or UHF STL link applications utilising the 800-2700 MHz frequency range.

STL Links utilise the 850 MHz dedicated frequency.

Coaxial cable assemblies, adaptors, antennas and other RF solutions are all available separately.

Electrical specifications

Frequency range	UHF STL link/ Mobile Phone 800-2700MHz
Bandwidth	Full frequency range stated - 1900 MHz
Insertion loss	Typical <3.4dB
Isolation	Typical >20dB
Maximum input power	50 Watts
VSWR	≤1.3:1
Impedance	50 Ohms
Amplitude imbalance	≤0.3dB
IM 3rd order	<-140dBc at (2*43dBm)
Passband ripple	<0.3dB

Mechanical specifications

Construction	Machined aluminium body and mount bracket and nickel plated terminations
Connector	Output: N-type female jack Input: N-type female jack
Operating temperature	-50°C to +70°C
Humidity	5% - 95%
Dimensions	Length: 96mm, Width: 74mm, Height: 23mm
Weight	0.2kg
Mounting position	Mount using the mounting slots located on the side of the unit



PD-6QMA-6982700

6-Way power divider with QMA female terminations
4G LTE, 4G/3G & WiFi/WLAN 698-2700 MHz

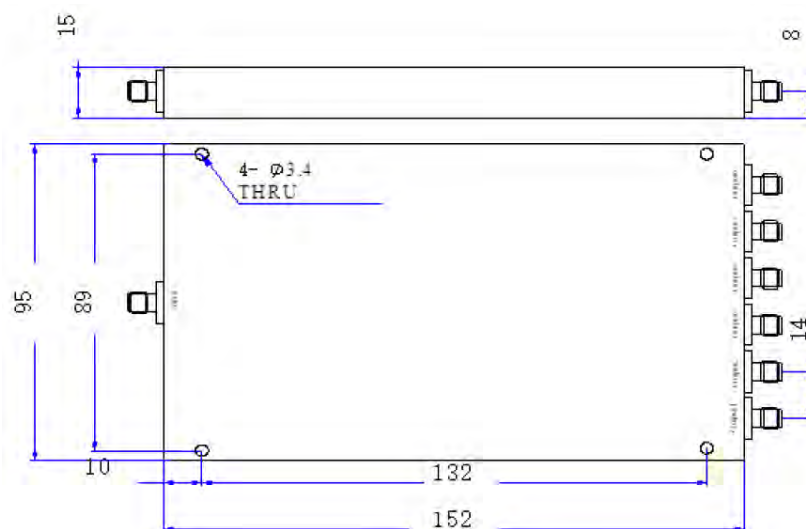


Electrical specifications

Frequency range	698-2700 MHz - 4G LTE, 4G/3G and WiFi/WLAN compatible
Bandwidth	Full frequency range stated - 2002 MHz
Insertion loss	Typical <1.8dB - maximum - excluding theoretical loss 0.7dB
Isolation	Typical >20dB
Maximum power	100 Watts - higher power models available, consult ZCG
VSWR	Input: ≤1.3:1 Output: ≤1.15:1
Impedance	50 Ohms
Amplitude balance	≤0.5dB
Phase balance	+6°
Power handling	Forward Power: 40W Reverse Power: 3W

Mechanical specifications

Connector	6 x Input: N-type female or specify QMA female 1 x Output: N-type female or specify QMA female
Operating temperature	-30°C to +70°C
Humidity	5% - 95%
Dimensions	Depth: 152mm, Width: 95mm, Height: 15mm
Weight	0.5kg
Mounting location	Internal use only - not for exterior mounting.



Mobile Phone Power Dividers

Broadband splitter N-type male or SMA terminated
4G LTE, 4G/3G and WiFi/WLAN 700-2700 MHz



These 4G LTE, 4G and 3G mobile phone power divider/splitters are ideal for low power splitter/combiners applications within the 700-2700 MHz frequency range.

The genuine broadband range of these splitters is suitable for all mobile phone networks within Australia.

Specify either N-type female terminations or SMA female terminations when ordering.

Adaptors, filters and multicoupling, antennas and other installation accessories are all available separately.



PS-2NSM-0727 in both models.

	PS-2NSM-0727	PS-8NSM-0727
Construction	Aluminium outer case and chrome or gold plated terminations	
Splitting capability	2-way	8-way
Frequency range	700-2800 MHz - 4G LTE, 4G/3G and WiFi/WLAN compatible	
Bandwidth	Full frequency range stated - 2100 MHz	
VSWR	<1.3:1	<1.5:1
Impedance nominal	50 Ohms	
Insertion loss	3.5dB	10.5dB
Ripple in band	0.3dB	-
Isolation	20dB	
Connector	N-type females or SMA females	
Maximum input power	50 Watts	
Dimensions	W: 50mm D: 50mm H: 17.5mm	W: 200mm D: 72mm H: 20mm
Weight	150grams	700grams



PS-8NSM-0727

Z6DC-8002500

6dB directional coupler

UHF, 4G/3G & WiFi/WLAN 800-2500 MHz



The Z6DC-8002500 is a 6dB directional coupler suitable for UHF, 4G/3G mobile phone and WiFi/WLAN or UHF STL link applications utilising the 800-2500 MHz frequency range.

STL Links utilise the 850MHz dedicated frequency.

Coaxial cable assemblies, adaptors, antennas and other RF solutions are all available separately.

Electrical specifications

Frequency range	800-2500 MHz - UHF, 4G/3G and WiFi/WLAN compatible
Bandwidth	Full frequency range stated - 1700 MHz
Insertion loss	Typical <0.25dB
Isolation	Typical >20dB
Maximum input power	50 Watts
VSWR	≤1.3:1
Impedance	50 Ohms
Thru loss	Typical 1.41dB
Connector flatness	Typical +/- 0.5dB
Directivity	>20dB

Mechanical specifications

Construction	Painted outer body and tri-metal plated terminations (low IM)
Connector	Output: N-type female jack Input: N-type female jack
Operating temperature	-30°C to +60°C
Humidity	5% - 95%
Dimensions	Length: 57mm, Width: 86mm, Height: 19mm
Weight	0.3kg
Mounting position	Mount using the mounting hole located in each corner of the unit





ZAPD-1-N

DC Pass power splitter/combiner UHF 500-1000 MHz



The ZAPD-1-N is a DC pass power splitter or combiner suitable for UHF or all networks lower 4G/3G mobile phone or UHF STL link applications utilising the 500-1000MHz frequency range.

Coaxial cable assemblies, adaptors, antennas and other RF solutions are all available separately.

Order codes:

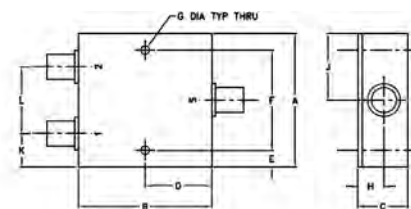
- ZAPD-1-N N-type female terminations
- ZAPD-1-BNC BNC female terminations
- ZAPD-1-SMA SMA female terminations

Electrical specifications

Frequency range	500-1000 MHz - UHF, 4G LTE and lower 4G/3G compatible
Bandwidth	Full frequency range stated - 500 MHz
Insertion loss above 3.0dB	Typical: 0.25dB ; Max: 0.6dB
Isolation	Typical: 25dB ; Min: 19dB
Phase unbalance	Max: 2° (degrees)
Amplitude unbalance	Max: 0.2dB
Maximum input power	10 Watts - input
VSWR	≤1.1:1 - Typical
Impedance	50 Ohms
Internal dissipation	Max: 0.125W
DC current	500mA (250mA for each port)
Directivity	>20dB

Mechanical specifications

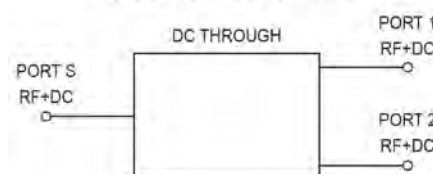
Construction	Rugged aluminium outer body and tri-metal plated terminations
Connector	Output: N-type female jack Input: N-type female jack
Operating temperature	-55°C to +100°C
Storage temperature	-55°C to +100°C
Dimensions	Length: 50.8mm, Width: 50.8mm, Height: 19.05mm
Weight	170grams
Mounting position	Mount utilising the 2 x 3mm holes through the body



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
2.00 50.80	2.00 50.80	0.75 19.05	1.00 25.40	0.25 6.35	1.500 38.10	0.125 3.18
H	J	K	L			wt
0.39 9.91	1.00 25.40	0.50 12.70	1.00 25.40			grams 170.0

electrical schematic





ZAPD-1-N

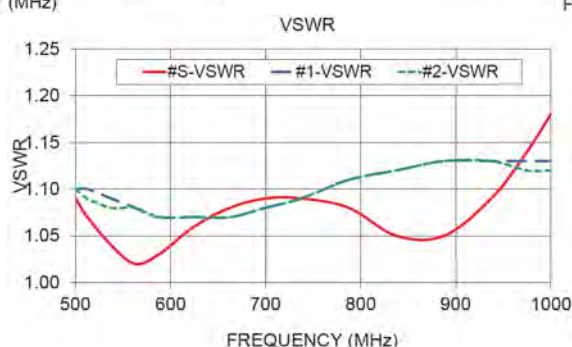
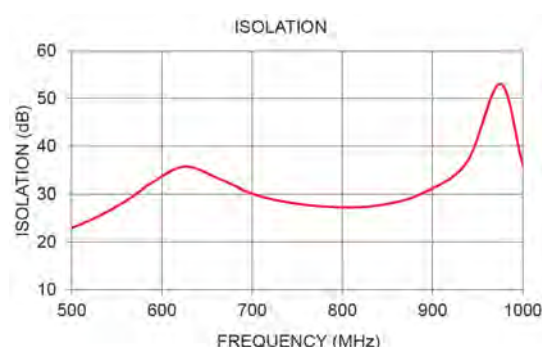
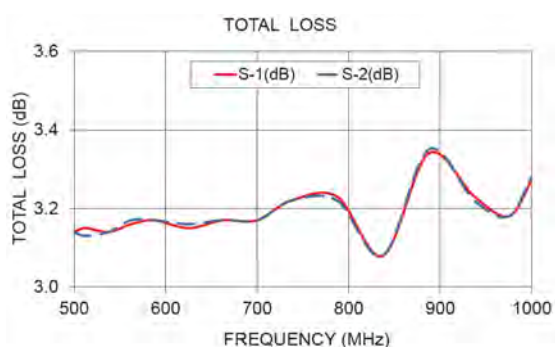
DC Pass power splitter/combiner
UHF 500-1000 MHz



Typical Performance Data

Frequency Range (MHz)	Total Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (degree)	VSWR		
	S1	S2				S	S-1	S-2
500	3.14	3.14	0.00	22.98	0.10	1.09	1.10	1.10
512.5	3.15	3.13	0.02	23.95	0.07	1.07	1.10	1.09
537.5	3.14	3.14	0.00	26.20	0.02	1.04	1.09	1.08
562.5	3.16	3.17	0.01	28.96	0.07	1.02	1.08	1.08
587.5	3.17	3.17	0.00	32.19	0.13	1.03	1.07	1.07
625	3.15	3.16	0.00	35.73	0.08	1.06	1.07	1.07
662.5	3.17	3.17	0.00	33.23	0.13	1.08	1.07	1.07
700	3.17	3.17	0.00	30.16	0.09	1.09	1.08	1.08
737.5	3.22	3.22	0.00	28.42	0.10	1.09	1.09	1.09
787.5	3.23	3.22	0.01	27.39	0.13	1.08	1.11	1.11
837.5	3.08	3.08	0.00	27.65	0.10	1.05	1.12	1.12
887.5	3.34	3.35	0.01	30.13	0.11	1.05	1.13	1.13
937.5	3.23	3.22	0.01	36.50	0.24	1.09	1.13	1.13
975.5	3.18	3.18	0.00	53.09	0.19	1.14	1.13	1.12
1000	3.27	3.28	0.01	36.11	0.19	1.18	1.13	1.12

Total loss = Insertion loss + 3dB splitter loss





ZAP3D-1-N

DC Pass power splitter/combiner
UHF 500-1000 MHz



The ZAP3D-1-N is a DC pass power splitter or combiner suitable for UHF or all networks lower 4G/3G mobile phone or UHF STL link applications utilising the 500-1000MHz frequency range.

Coaxial cable assemblies, adaptors, antennas and other RF solutions are all available separately.

Order codes:

- ZAP3D-1-N N-type female terminations
- ZAP3D-1-SMA SMA female terminations



ZAP3D-1-N



ZAP3D-1-SMA

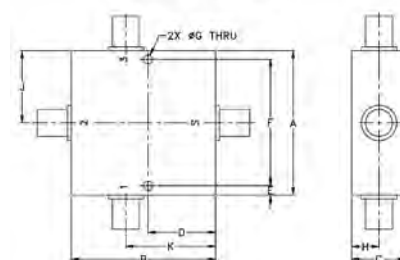
Electrical specifications

Frequency range	500-1000 MHz - UHF, 4G LTE and lower 4G/3G compatible
Bandwidth	Full frequency range stated - 500 MHz
Insertion loss above 4.8dB	Typical: 0.3dB ; Max: 0.6dB
Isolation	Typical: 20dB ; Min: 14dB
Amplitude unbalance	Max: 0.4dB
Maximum input power	10 Watts - as a splitter
VSWR	≤1.1:1 - Typical
Impedance	50 Ohms
Internal dissipation	Max: 0.375W
DC current	750mA (250mA for each port)

Mechanical specifications

Construction	Rugged aluminium outer body and tri-metal plated terminations
Connector	Output: N-type female jack Input: N-type female jack
Operating temperature	-55°C to +100°C
Storage temperature	-55°C to +100°C
Dimensions	Length: 50.8mm, Width: 50.8mm, Height: 19.05mm
Weight	200grams
Mounting position	Mount utilising the 2 x 3mm holes through the body

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	
2.00 (50.80)	2.00 (50.80)	.75 (19.05)	.938 (23.83)	.13 (3.30)	1.750 (44.45)	
G	H	J	K			wt
.125 (3.18)	.38 (9.65)	1.00 (25.40)	1.25 (31.75)			grams 200.0

electrical schematic





ZAP3D-1-N

DC Pass power splitter/combiner

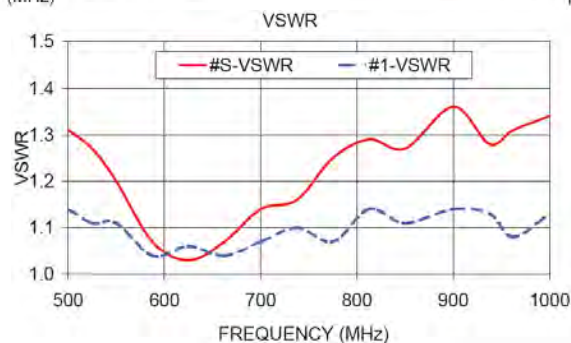
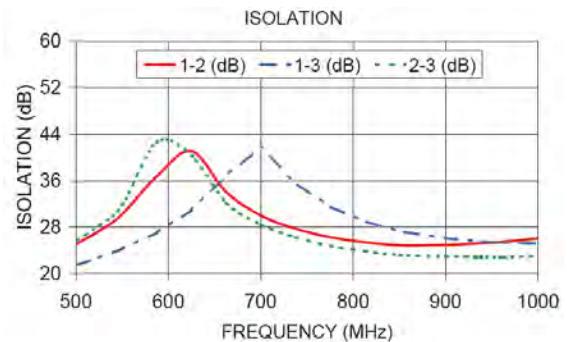
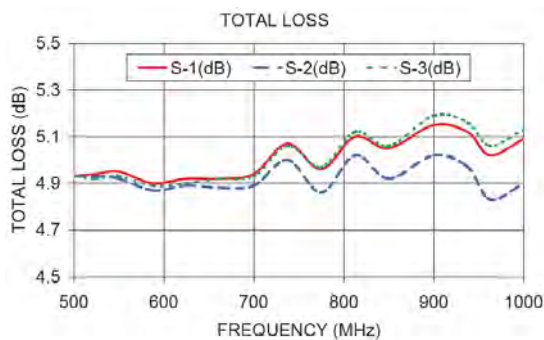
UHF 500-1000 MHz



Typical Performance Data

Frequency Range (MHz)	Total Loss (dB)			Amplitude Unbalance (dB)	Isolation (dB)			Phase Unbalance (degree)	VSWR			
	S1	S2	S3		1-2	1-3	2-3		S	S-1	S-2	S-3
500	4.93	4.93	4.93	0.00	25.07	21.42	25.67	0.50	1.31	1.14	1.12	1.14
525	4.94	4.93	4.92	0.02	27.03	22.75	28.26	0.25	1.27	1.11	1.08	1.11
550	4.95	4.92	4.93	0.03	30.22	24.28	31.79	0.40	1.20	1.11	1.08	1.11
587.5	4.90	4.87	4.89	0.03	36.77	27.06	42.63	0.43	1.07	1.04	1.06	1.04
625	4.92	4.89	4.90	0.04	41.08	30.93	40.30	0.30	1.03	1.06	1.04	1.05
662.5	4.92	4.88	4.92	0.04	34.04	36.85	32.18	0.41	1.07	1.04	1.07	1.03
700	4.94	4.89	4.93	0.05	30.02	41.73	28.45	0.34	1.14	1.07	1.12	1.06
737.5	5.07	5.00	5.06	0.07	27.72	35.61	26.26	0.22	1.16	1.10	1.12	1.09
775	4.96	4.86	4.97	0.11	26.26	31.53	24.77	0.29	1.25	1.07	1.14	1.07
812.5	5.10	5.02	5.12	0.10	25.41	29.00	23.87	0.41	1.29	1.14	1.20	1.13
850	5.05	4.92	5.06	0.13	24.90	27.30	23.19	0.05	1.27	1.11	1.15	1.11
900	5.15	5.02	5.19	0.16	24.96	26.09	22.94	0.53	1.36	1.14	1.23	1.14
937.5	5.12	4.97	5.16	0.19	25.24	25.53	22.90	0.27	1.28	1.13	1.18	1.13
962.5	5.02	4.83	5.06	0.23	25.47	25.28	22.85	0.41	1.31	1.08	1.16	1.09
1000	5.09	4.90	5.13	0.23	26.05	25.22	23.01	0.69	1.34	1.13	1.22	1.13

Total loss = Insertion loss + 4.8dB splitter loss





Z1100-8 and Z1280

Omni-directional mast mount data collinear

ADS-B In/Out or UHF 1.0-1.29 GHz



The Z1100-8 and Z1280 are omnidirectional mast mount collinears, designed and manufactured for communications in the 1.0-1.1 GHz or 1.27-1.29 GHz frequency range.

The Z1100-8 can be used as a high gain Automatic Dependence Surveillance - Broadcast (ADS-B) fixed position collinear utilising the set frequency 1090MHz.

Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.

	Z1100-8	Z1280
Construction	White fibreglass parallel radome, 304 grade stainless steel mount section and external termination	
Frequency range	1.0-1.1 GHz - UHF including ADS-B at 1090 MHz	1.27-1.29 GHz - UHF
Bandwidth	Full frequency range stated above	
VSWR	<1.5:1	
Tuning	Factory	
Gain	10 dBi	
Maximum power	50 Watts	
Impedance - nominal	50 Ohms	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	360° omni-directional	
Connector	N-type female jack at base of mount section, no cable	
Height	1.7m	1.24m
Weight	750grams	700grams
Wind load at 160kph	0.038kN, 3.918kg	0.028kN, 2.858kg
Projected area	0.032m ²	0.024m ²
Mount section	240mm x 25mmø - 304 stainless steel	
Mounting hardware order separate	Parallel: 2 x EB1- SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS	
Mounting position recommended	Mount as high on your structure or tower as possible using appropriate mounting hardware. Ensure not obstructions around antenna by minimum 500mm	



Z1100-8



Z1280



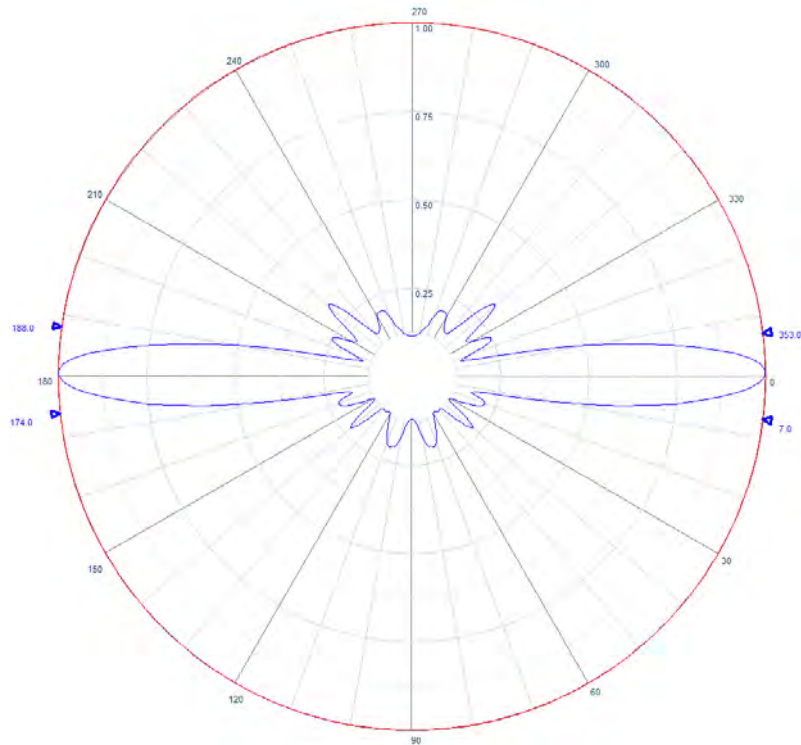
Stainless steel mount section at base of radome.



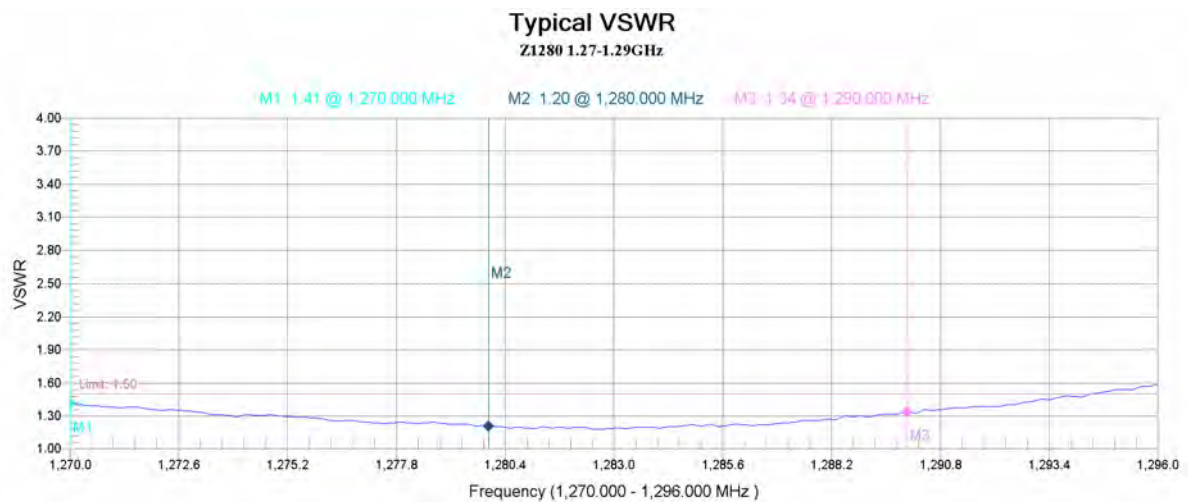
N-type female jack at base of mount section.

Z1100-8 and Z1280

Omni-directional mast mount data collinear
ADS-B In/Out or UHF 1.0-1.29 GHz



Example radiation pattern - Z1280



Typical VSWR - Z1280

Z1100-8 and Z1280

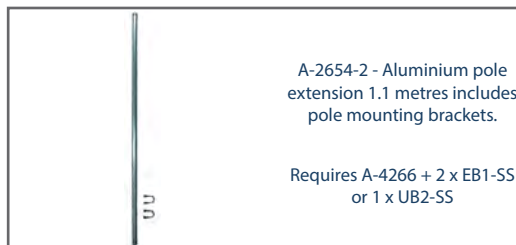
Omni-directional mast mount data collinear

ADS-B In/Out or UHF 1.0-1.29 GHz



CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS



A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.

Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS

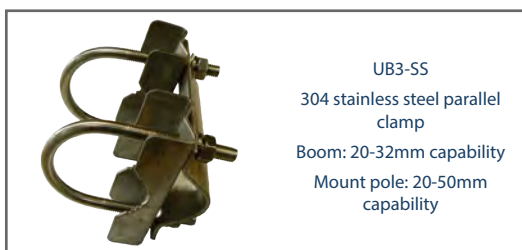


SFB Series - galvanised steel pole extension 0.9-2.0 metres
Roof or overhang mounting

Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS



EB1-SS - requires 2
304 stainless steel parallel clamp
Boom: 20-40mm capability
Mount pole: 25-45mm capability



UB3-SS
304 stainless steel parallel clamp
Boom: 20-32mm capability
Mount pole: 20-50mm capability



UB2-SS
304 stainless steel steel right-angle clamp
Boom: 20-50mm capability
Mount pole: 20-50mm capability

Suitable feeder coaxial cable and connectors



RU400 Solid copper conductor, low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(™ times microwave)
P/N 7890
Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU400 low loss, solid conductor
P/N 8226
Tri-metal plated



1/2" super flexible helical shielded, foam dielectric coaxial cable
P/N ZCG1250SF
Available in per metre, 500m roll or alternatively request a custom cable assembly



N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable
P/N NM1250SF
Tri-metal plated



1/2" corrugated shielding, foam dielectric coaxial cable
P/N ZCG1250
Available in per metre, 500m roll or alternatively request a custom cable assembly



N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable
P/N NM1250
Tri-metal plated



SG1400

Omnidirectional wireless data collinear

UHF 1.35-1.4 GHz



The SG-1400 is a ruggedised collinear specifically designed and manufactured for use within the UHF 1.35-1.4 GHz frequency range. The ruggedised mount ferrule is suitable for structure or tower mounting utilising appropriate parallel or right-angle mounting brackets.

Alternative mounting options, adaptors, connectors and other installation accessories are all available separately.

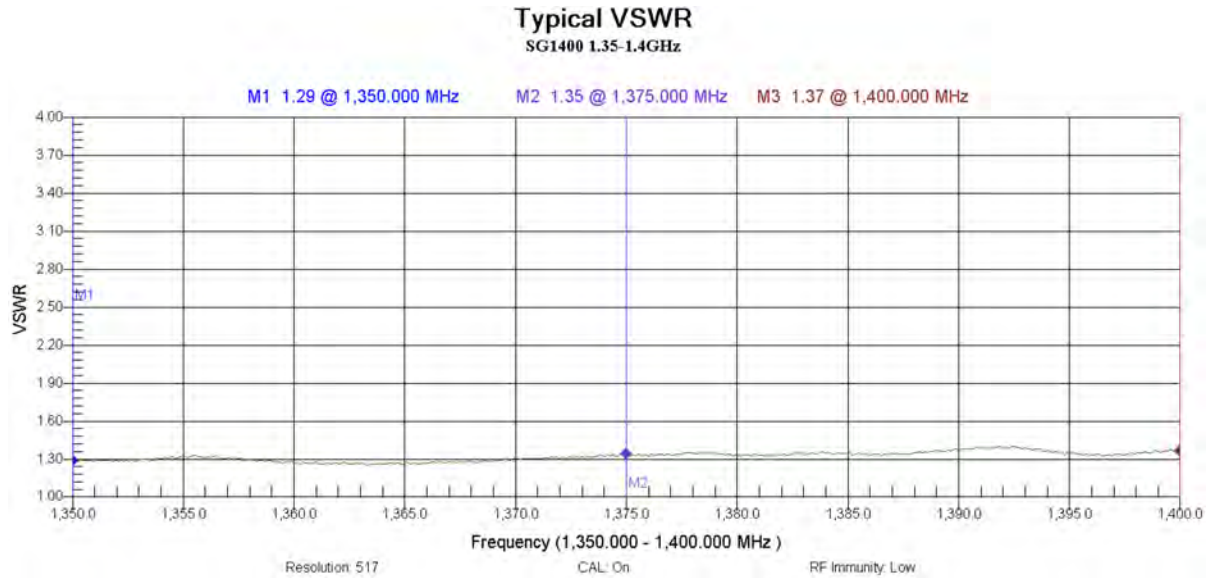
Construction	Ruggedised parallel fibreglass radome, aluminium mount ferrule and external termination
Frequency range	1.35-1.40 GHz - UHF
Bandwidth	Full frequency range stated - 50 MHz
Tuning	Factory
Gain	5.2 dBi
Impedance	50 Ohms
Polarisation	Vertical
DC grounding	Yes
H Plane	360° omnidirectional
E Plane	20°
Connector	N-type female at base of mount section
Height	520mm
Weight	900grams
Mount section	100mm x 42mm diameter - aluminium
Projected area	0.0011m ²
Wind load at 160kph	1.3kg, 0.013kN
Mounting hardware order separate	Parallel: 1 x UB3-SS Right-angle: 1 x UB2-SS



SG1400

Omnidirectional wireless data collinear

UHF 1.35-1.4 GHz









Typical VSWR

SG1400

Omnidirectional wireless data collinear

UHF 1.35-1.4 GHz

Suitable mounting hardware

 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>
 <p>SFB900 - Galvanised steel straight extension brackets - 900mm or specify length requirements</p> <p>Requires 2 x EB1-SS or 1 x UB2-SS for antenna mounting</p>	 <p>A-2307 - 6-piece aluminium & fibreglass mast - 6.68m</p> <p>Includes: insulated top, guy wires, spigots and base bracket.</p>
 <p>UB3-SS 304 stainless steel parallel clamp Boom: 20-32mm capability Mount pole: 20-50mm capability</p>	 <p>UB2-SS 304 stainless steel right-angle clamp Boom: 20-50mm capability Mount pole: 20-50mm capability</p>

Suitable coaxial cable and connectors

 <p>MIL-SPEC RG213 stranded copper conductor coaxial cable P/N 7800</p> <p>Available in 100m or 300m rolls or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for MIL-SPEC RG213 P/N 7937 Tri-metal plated</p>
 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (* times microwave) P/N 7890</p> <p>Available in 100m, 300m or 500m rolls or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor P/N 8226 Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, or 500m rolls or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable P/N NM1250SF Tri-metal plated</p>



CFD1420

Omni-directional spread spectrum dipole

Fixed Mobile/UHF 1.42-1.52 GHz



The CFD1420 spread spectrum dipole is specifically designed for Fixed mobile or UHF applications utilising the 1.42-1.52 GHz range. No metal ground plane is necessary for the antenna to operate effectively.

Mounting hardware, coaxial feeder cable, adaptors and other installation accessories are all available separately.

Construction	Black fibreglass radome, aluminium ferrule and cable assembly
Frequency range	1.42-1.52 GHz - UHF
Bandwidth	Full frequency range stated - 100 MHz
VSWR	<1.6:1
Tuning	Factory
Gain	2.1 dBi
Impedance - nominal	50 Ohms
Maximum power	20 Watts
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional
Cable	3 metres RG58 low loss, solid core - side exit from ferrule
Connector	SMA male fitted to cable as standard or specify requirements
Height	220mm
Weight	300grams
Wind load at 160kph	0.005kN, 0.490kg
Mounting hardware order separate	Any 13mm hole or bracket with 13mm hole Bracket: GM1, GM2, GM5 or A-6211 Mount: BBM-SS, BBML-SS, BBMXL-SS, MRM-SS or BBKB-B Spring base: A-1269 'barrel' or A-1270 'parallel'
Mounting position recommended	Mount as high on your structure, mast or tower as possible using an appropriate mounting bracket
Installation tools required	19mm or 3/4" spanner for nut securing

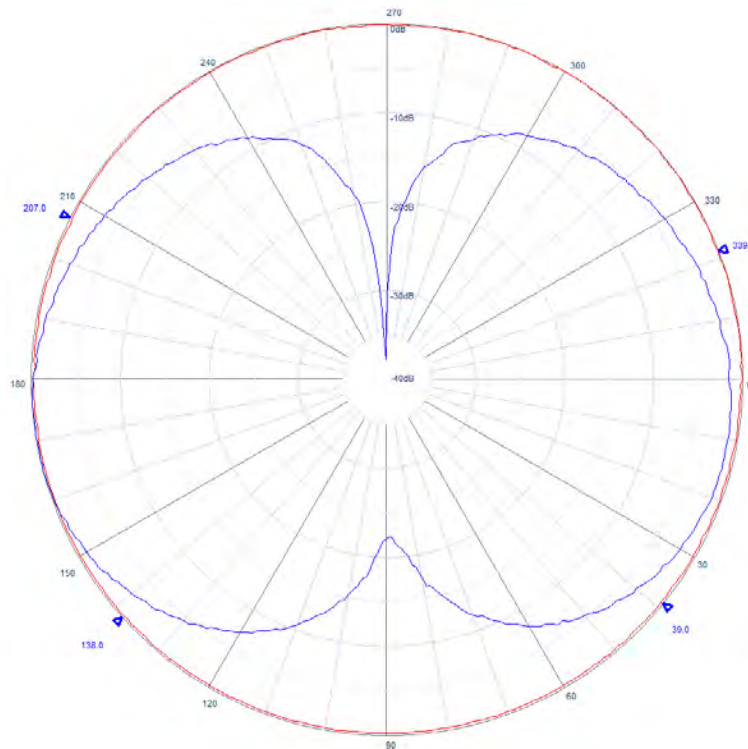


Gold plated SMA male fitted as standard

CFD1420

Omni-directional spread spectrum dipole

Fixed Mobile/UHF 1.42-1.52 GHz



Example polar radiation pattern

CFD1420

Omni-directional spread spectrum dipole

Fixed Mobile/UHF 1.42-1.52 GHz



A-4266 series - aluminium mast mount adaptor

Requires 2 x EB1-SS, 1 x UB3-SS or 2 x RB8 or 1 x UB2-SS

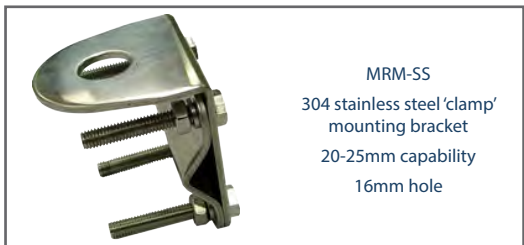
Can be used with CFB series or A-2654-2



GM1 - 304 stainless steel 'L' fascia mount bracket

16mm hole

Requires mounting screws/ bolts - not supplied



MRM-SS

304 stainless steel 'clamp' mounting bracket

20-25mm capability

16mm hole

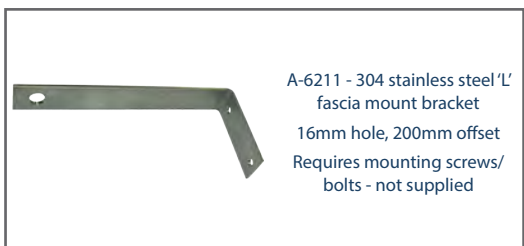


BBM-SS series

304 stainless steel 'wrap around' mounting bracket

50-76mm capability depending on model

16mm hole



A-6211 - 304 stainless steel 'L' fascia mount bracket

16mm hole, 200mm offset

Requires mounting screws/ bolts - not supplied



MGB

Powdercoated black internal magnet mount base

16mm hole

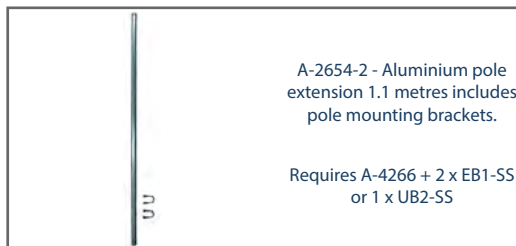
105mm diameter

Can be fitted during manufacture
includes scratch reduction pad on base



CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS



A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.

Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS



Alternate Spring base

A-1269 - 'Barrel' stainless steel spring base with 1/2" bolt and spring washer

Can be fitted during manufacture

Requires 19mm spanner



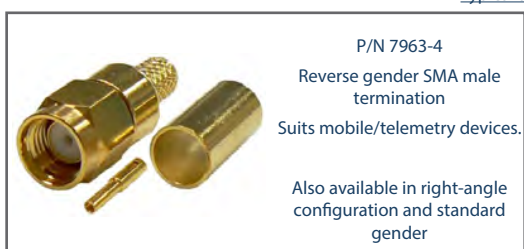
Alternate Spring base

A-1270 - Parallel heavy-duty mount spring, includes base mount bolt

Can be fitted during manufacture

Requires 19mm spanner

Typical alternate connectors

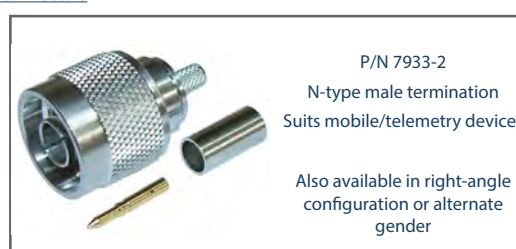


P/N 7963-4

Reverse gender SMA male termination

Suits mobile/telemetry devices.

Also available in right-angle configuration and standard gender



P/N 7933-2

N-type male termination

Suits mobile/telemetry devices

Also available in right-angle configuration or alternate gender

MD1800B & MD1800B-MGB

Omni-directional stud mount or magnetic base mount collinear

Fixed Mobile/UHF 1.7-1.8 GHz

These ground independent omni-directional fixed mobile/data link collinears are specifically designed for wireless data transmit and receive in either a stud mount or magnetic base mount configuration.

The MD1800B-MGB can be mounted in an interior inverted polarisation if required.

Mounting hardware, coaxial feeder cable, adaptors and other installation accessories are all available separately.

	MD1800B*	MD1800B-MGB
Construction	Black fibreglass radome, aluminium mount ferrule, external cable assembly and termination	
Frequency range	1.7-1.8 GHz - UHF	
Bandwidth	Full frequency range stated - 100 MHz	
VSWR	<1.5:1	
Tuning	Factory	
Gain	2.1 dBi	
Impedance - nominal	50 Ohms	
Maximum power	10 Watts	
DC grounding	Yes	
Polarisation	Vertical	
Cable	5.0m RG58 low loss, solid core, side exit from ferrule or specify length	
Connector	SMA male fitted as standard - or specify requirements	
Height	320mm	340mm
Weight	340grams	1.05kg
Mounting hardware order separate	Hole: minimum 13mm Bracket: GM1, GM2, GM5, A-6211 or A-4115-2	Magnetic base fitted
Mounting position recommended	Mount as high on your vehicle, structure, mast or tower as possible using the appropriate mounting bracket or magnetic base	
Installation tools required	19mm or 3/4" spanner for nut securing	N/A



MD1800B



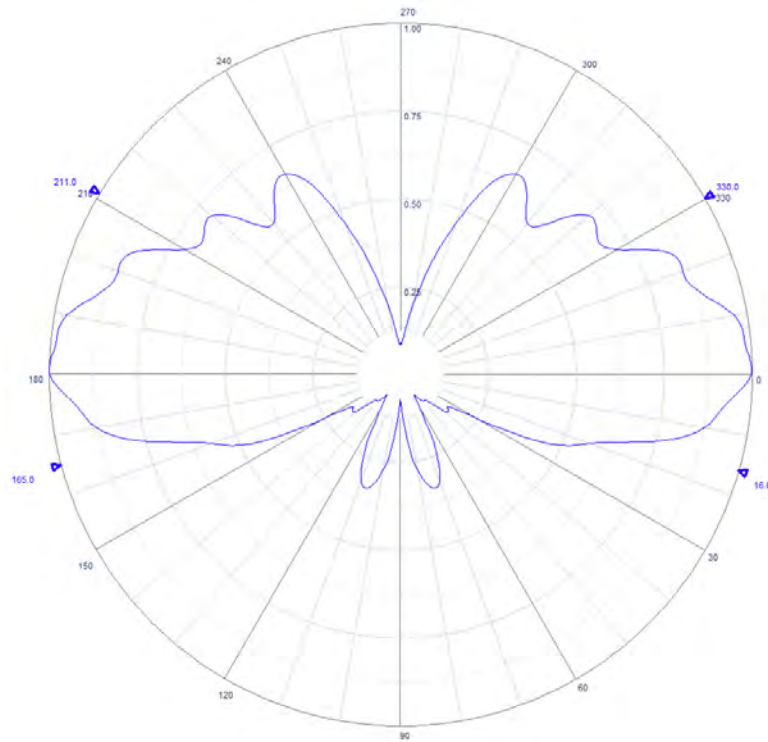
MD1800B-MGB



MD1800B & MD1800B-MGB

Omni-directional stud mount or magnetic base mount collinear

Fixed Mobile/UHF 1.7-1.8 GHz



Example radiation pattern

MD1800B & MD1800B-MGB

Omni-directional stud mount or magnetic base mount collinear

Fixed Mobile/UHF 1.7-1.8 GHz

 <p>GM1 - 304 stainless steel 'L' fascia mount bracket 16mm hole Requires mounting screws/bolts - not supplied</p>	 <p>GM2 - 304 stainless steel 'Z' fascia mount bracket 16mm hole Requires mounting screws/bolts - not supplied</p>
 <p>MRM-SS 304 stainless steel 'clamp' mounting bracket 20-25mm capability 16mm hole</p>	 <p>GM6 - 304 stainless steel 'L' fascia mount bracket 16mm slot Requires mounting screws/bolts - not supplied</p>
 <p>BBM-SS series 304 stainless steel 'wrap around' mounting bracket 50-76mm capability depending on model 16mm hole</p>	 <p>A-6211 - 304 stainless steel 'L' fascia mount bracket 16mm hole, 200mm offset Requires mounting screws/bolts - not supplied</p>
 <p>MGB Single magnet mount base 16mm hole Diameter: 105mm Protective pad on base of magnet</p>	 <p><u>Alternate Magnetic bases</u> A-2845-2 Tri-magnet mount base 13mm hole Footprint: 165mm Santoprene coating on magnets</p>
 <p><u>Alternate Spring base</u> A-1269 - 'Barrel' stainless steel spring base with 1/2" bolt and spring washer <u>Can be fitted during manufacture</u> Requires 19mm spanner</p>	 <p><u>Alternate Spring base</u> A-1270 - Parallel heavy-duty mount spring, includes base mount bolt <u>Can be fitted during manufacture</u> Requires 19mm spanner</p>

Typical alternate connectors

 <p>P/N 7963-4 Reverse gender SMA male crimp termination Also available in standard gender or right-angle</p>	 <p>P/N 7933-2 N-type male crimp termination Also available in alternate gender</p>
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SG1885-TPM

Omni-directional wireless data collinear

UHF 1.885-1.905 GHz



The SG1885-TPM omni-directional data link collinear is specifically designed and manufactured for use within the fixed mobile/UHF 1.885-1.905 GHz range.

The SG1885-TPM is ideal for external mounting to a mast, building or alternatively onto a vehicle using a mounting spring.

Mounting hardware, coaxial feeder cable, adaptors and other installation accessories are all available separately.

Construction	White fibreglass radome, aluminium mount ferrule and cable assembly
Frequency range	1.885-1.905 GHz - UHF & Wireless broadband compatible
Bandwidth	Full frequency range stated - 20 MHz
VSWR	<1.5:1
Tuning	Factory
Gain	5.14 dBi
Impedance - nominal	50 Ohms
Maximum power	10 Watts
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional
Cable	3 metres RG58 low loss, solid core, side exit from ferrule
Connector	TNC male fitted as standard, or specify requirements
Height	500mm
Weight	350grams
Mounting hardware order separate	Bracket: GM1, GM2, GM6 or A-6211 Mount: ATLM series, BBM-SS, MRM-SS or BBKB-B Alternate spring mounting: A-1269, A-1269-14 or A-1270
Mounting position recommended	Mount as high on your structure, mast or tower as possible using the appropriate minimum 13mm hole or mounting hardware with 13mm hole.
Installation tools required	19mm or 3/4" spanner for nut securing

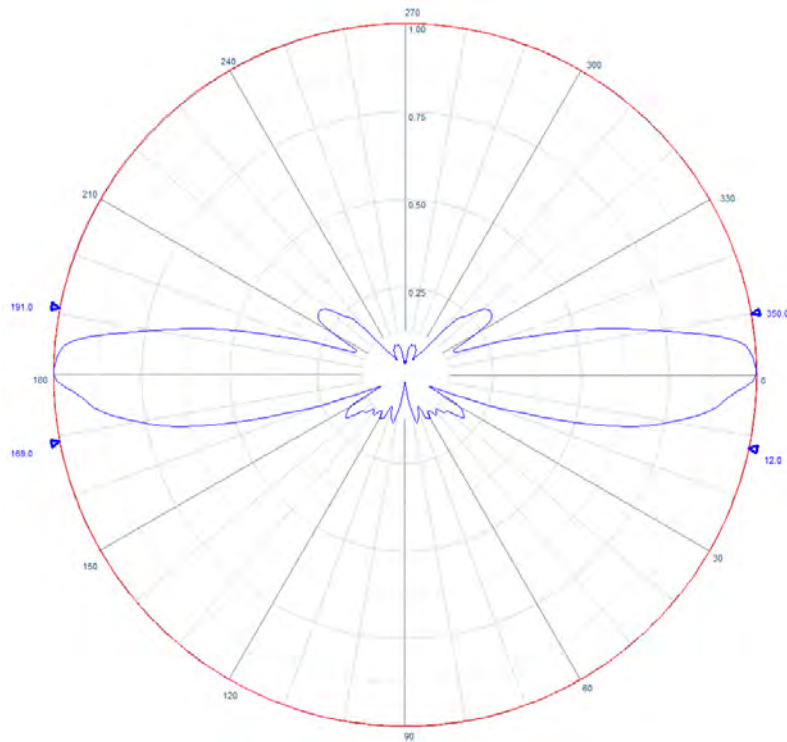


TNC male fitted as standard or specify requirements.

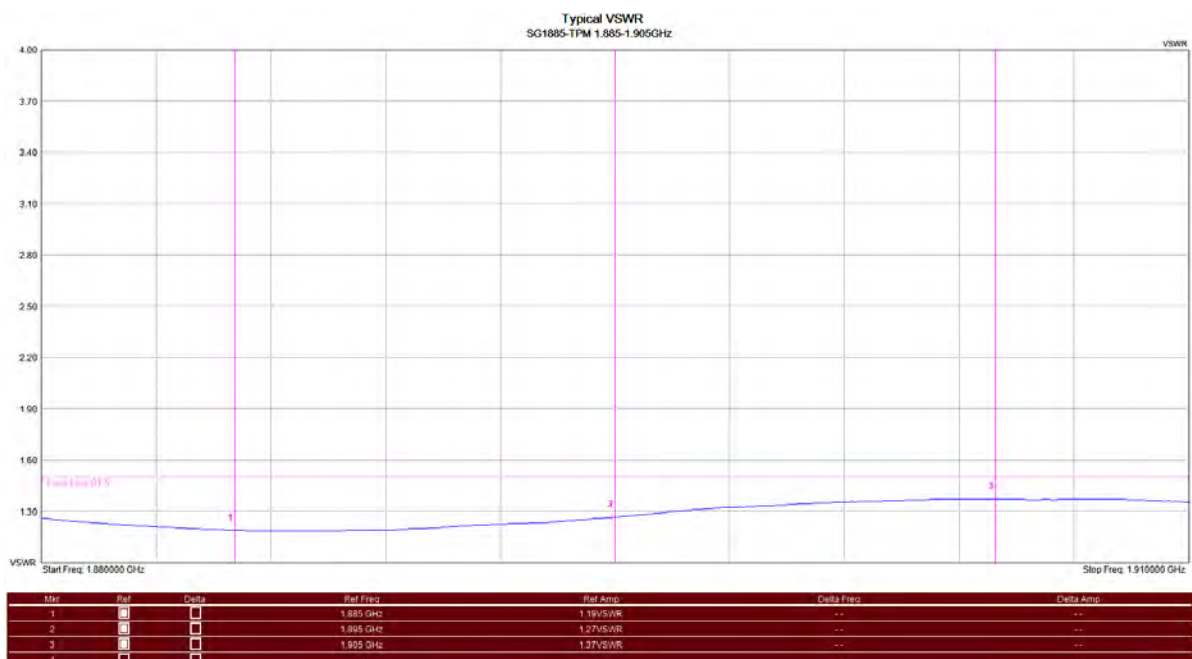
SG1885-TPM

Omni-directional wireless data collinear

UHF 1.885-1.905 GHz



Example radiation pattern

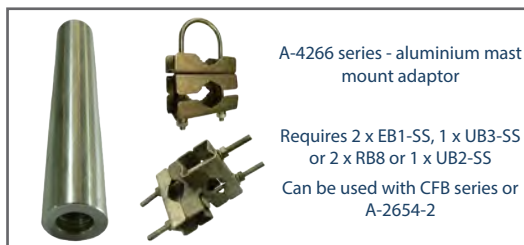


Typical VSWR

SG1885-TPM

Omni-directional wireless data collinear

UHF 1.885-1.905 GHz



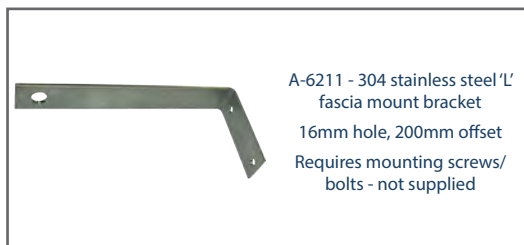
A-4266 series - aluminium mast mount adaptor

Requires 2 x EB1-SS, 1 x UB3-SS or 2 x RB8 or 1 x UB2-SS
Can be used with CFB series or A-2654-2



GM1 - 304 stainless steel 'L' fascia mount bracket

16mm hole
Requires mounting screws/ bolts - not supplied



A-6211 - 304 stainless steel 'L' fascia mount bracket

16mm hole, 200mm offset
Requires mounting screws/ bolts - not supplied



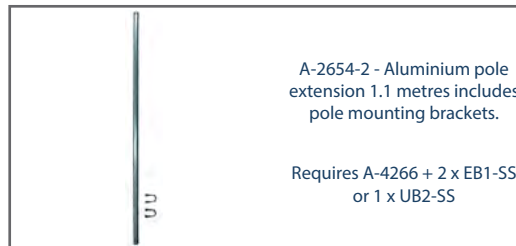
MGB

Powdercoated black internal magnet mount base
16mm hole
105mm diameter
includes scratch reduction pad on base



CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS



A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.

Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS



Alternate Spring base

A-1269 - 'Barrel' stainless steel spring base with 1/2" bolt and spring washer

Requires 19mm spanner



Alternate Spring base

A-1270 - Parallel heavy-duty mount spring, includes base mount bolt

Requires 19mm spanner



Alternate Spring base

A-1269-12 - 'Barrel' stainless steel spring base with threaded stud and split nut

Requires 19mm spanner



Alternate Spring base

A-1269-14 - 'Barrel' stainless steel spring base with 50mm base extension. Suitable for behind bull bar mounting or wing mirror bracket mounting

Requires 19mm spanner

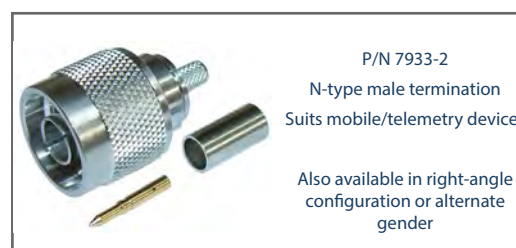
Typical alternate connectors



P/N 7963-7

SMA male termination
Suits mobile/telemetry devices.

Also available in right-angle configuration, alternate gender or reverse polarity



P/N 7933-2

N-type male termination
Suits mobile/telemetry devices

Also available in right-angle configuration or alternate gender

SGL1900-TPM series

Omnidirectional broadband wireless data collinear

UHF 1.88-1.92 GHz

The SGL-1900-TPM series are specifically designed for use within the UHF 1880-1920 MHz frequency range, and offers consistent and dependable performance with maximum efficiency, suitable for wireless data transfer applications.

Coaxial cable, adaptors, alternate connectors and other installation accessories are all available separately.

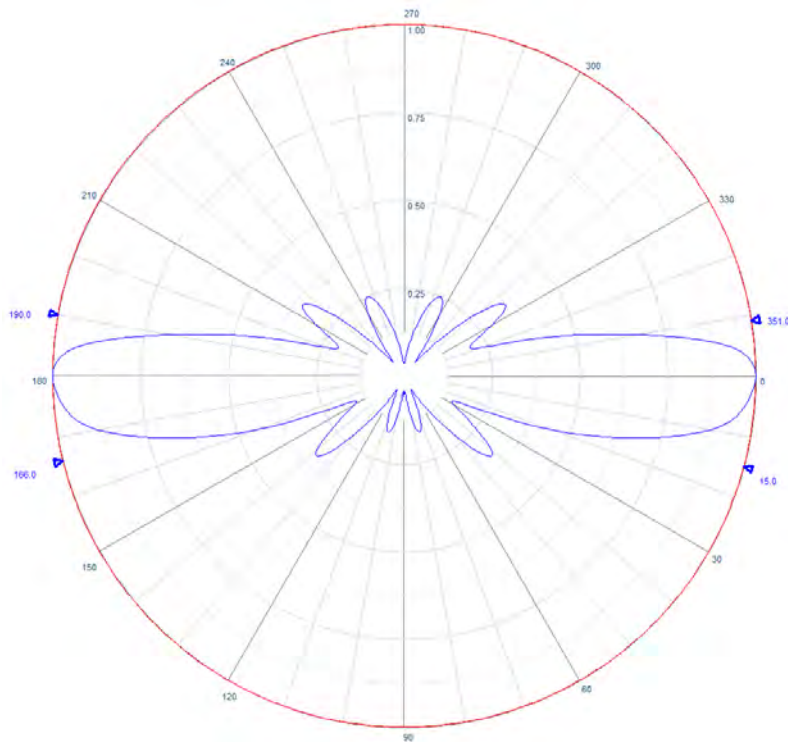
	SGL1900-TPM	SGL1900-TPM-58
Construction	White parallel fibreglass radome, aluminium mount ferrule , external coaxial cable and termination	
Frequency range	1880-1920 MHz - UHF	
Bandwidth	Full frequency range stated - 40 MHz	
VSWR	<1.6:1	
Tuning	Factory	
Gain	6.2 dBi	
Maximum power	5 Watts	100 Watts
Impedance - nominal	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable	5 metres RG316 - side exit from ferrule	5 metres RG58 low loss, solid core - side exit from ferrule
Connector	MCX male fitted to cable or specify requirements	N-type female fitted to cable or specify requirements
Height	380mm	
Weight	600grams	
Mounting hardware - supplied	1/2"-12BSW male thread at base of ferrule with 1/2" nut, GM1 'L' mounting bracket with 16mm hole	
Alternate mounting hardware order separate	Bracket: BBM series, MRM-SS, BBKB-B, A-6211 or GM2 Spring base: A-1269, A-1269-14 or A-1270 Magnetic base: MGB Mast mount extension: A-4266 series + EB1-SS or UB3-SS	
Mounting position recommended	Mount as high on your structure or tower as possible to ensure a true omni-directional signal.	
Installation tools required	22mm spanner for nut securing	



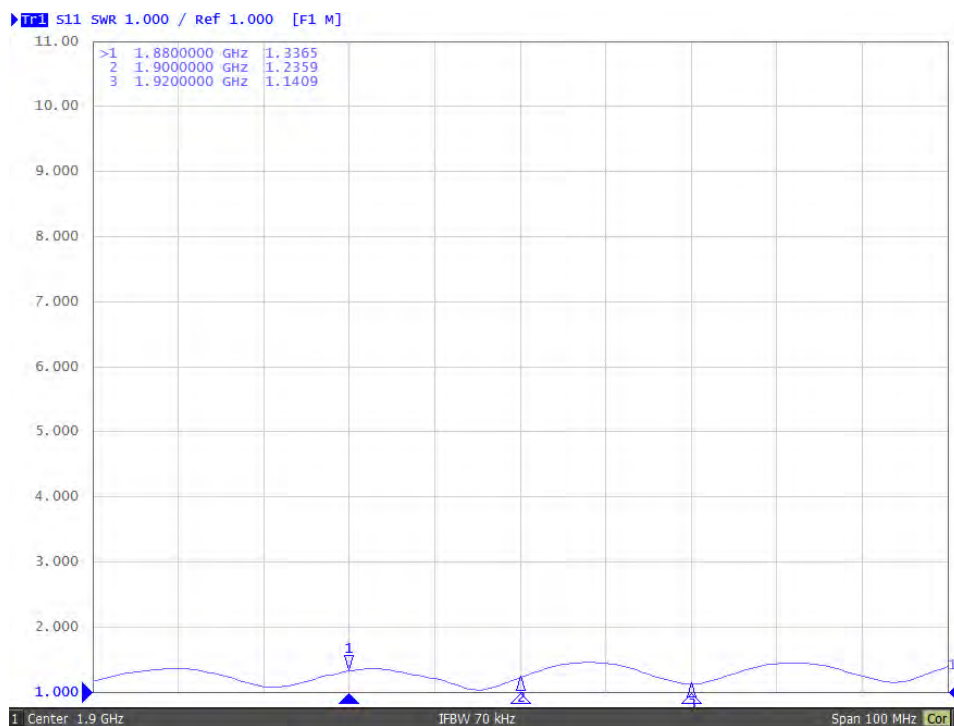
SGL1900-TPM series

Omnidirectional broadband wireless data collinear

UHF 1.88-1.92 GHz



Example radiation pattern



Typical VSWR

SGL1900-TPM series

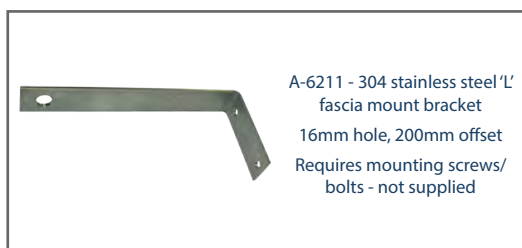
Omnidirectional broadband wireless data collinear

UHF 1.88-1.92 GHz

Included mounting bracket



Alternate mounting hardware



Typical alternate Connectors





MD1950

Omni-directional stud mount collinear

Fixed Mobile/UHF 1.8-2.1 GHz



The MD1950 ground independent omni-directional fixed data link collinear is specifically designed for wireless data transmit and receive in a stud mount configuration.

Mounting hardware, coaxial feeder cable, adaptors and other installation accessories are all available separately.

Construction	Black fibreglass radome, aluminium mount ferrule, external cable assembly and termination
Frequency range	1.8-2.1 GHz - UHF
Bandwidth	Full frequency range stated - 300 MHz
VSWR	<1.5:1
Tuning	Factory
Gain	2.1 dBi
Impedance - nominal	50 Ohms
Maximum power	10 Watts
DC grounding	Yes
Polarisation	Vertical
Cable	5.0m RG58 low loss, solid core as standard, side exit from ferrule or specify length requirements
Connector	SMA male fitted as standard - or specify requirements
Height	300mm
Weight	320grams
Mounting hardware order separate	Any bracket/hole with a 13mm hole such as GM1, GM2 or GM5
Mounting position recommended	Mount as high on your vehicle, structure, mast or tower as possible using the appropriate mounting bracket or magnetic base
Installation tools required	19mm or 3/4" spanner for nut securing



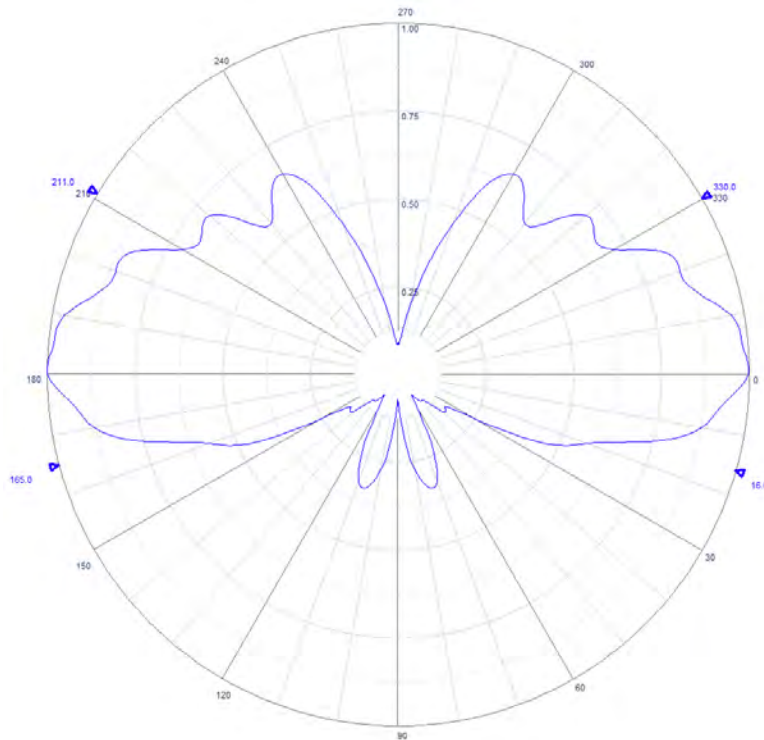
SMA male fitted as standard



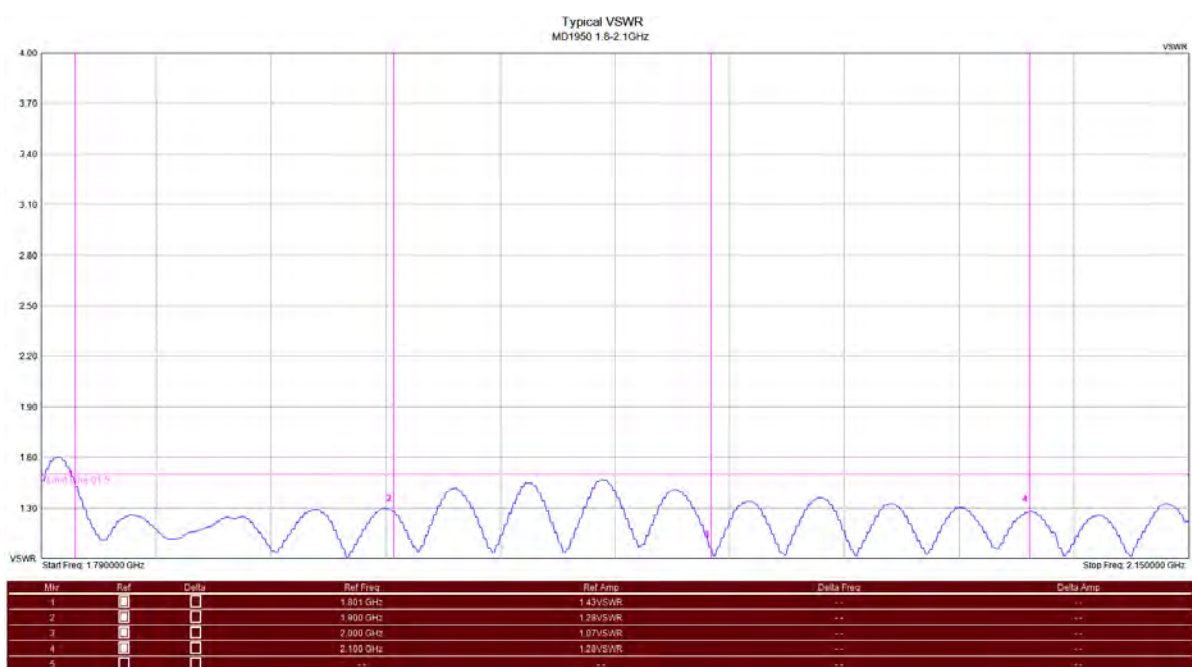
MD1950

Omni-directional stud mount collinear

Fixed Mobile/UHF 1.8-2.1 GHz



Example radiation pattern



Typical VSWR

MD1950

Omni-directional stud mount collinear

Fixed Mobile/UHF 1.8-2.1 GHz

 <p>GM1 - 304 stainless steel 'L' fascia mount bracket 16mm hole Requires mounting screws/bolts - not supplied</p>	 <p>GM2 - 304 stainless steel 'Z' fascia mount bracket 16mm hole Requires mounting screws/bolts - not supplied</p>
 <p>MRM-SS 304 stainless steel 'clamp' mounting bracket 20-25mm capability 16mm hole</p>	 <p>GM6 - 304 stainless steel 'L' fascia mount bracket 16mm slot Requires mounting screws/bolts - not supplied</p>
 <p>BBM-SS series 304 stainless steel 'wrap around' mounting bracket 50-76mm capability depending on model 16mm hole</p>	 <p>A-6211 - 304 stainless steel 'L' fascia mount bracket 16mm hole, 200mm offset Requires mounting screws/bolts - not supplied</p>
 <p>MGB Single magnet mount base 16mm hole Diameter: 105mm Protective pad on base of magnet</p>	 <p><u>Alternate Magnetic bases</u> A-2845-2 Tri-magnet mount base 13mm hole Footprint: 165mm Santoprene coating on magnets</p>
 <p><u>Alternate Spring base</u> A-1269 - 'Barrel' stainless steel spring base with 1/2" bolt and spring washer <u>Can be fitted during manufacture</u> Requires 19mm spanner</p>	 <p><u>Alternate Spring base</u> A-1270 - Parallel heavy-duty mount spring, includes base mount bolt <u>Can be fitted during manufacture</u> Requires 19mm spanner</p>

Typical alternate connectors

 <p>P/N 7963-4 Reverse gender SMA male crimp termination Also available in standard gender or right-angle</p>	 <p>P/N 7933-2 N-type male crimp termination Also available in alternate gender</p>
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ZYUE-WX-2000D

Straight SMA terminated UHF Whip

UHF 1800-2200 MHz



The ZYUE-WX-2000D whip is a straight vertical SMA male terminated whip. Suitable in locations where a low profile and highly flexible construction are required, such as locations where contact with the antenna is highly possible.

Adaptors, patch leads, water proofing and other installation accessories are all available separately.

Construction	Black moulded whip and internal termination
Frequency range	1800-2200 MHz
Bandwidth	Full frequency range stated
VSWR	<1.5:1
Tuning	Factory
Gain	3 dBi
Impedance	50 Ohms
Maximum power	50 Watts
Connector	SMA male plug connector as base
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
Dimensions	80mm
Mounting	Mount onto any SMA female terminated device, base or cable termination
Mounting position recommended	As high as possible, ensure no metallic obstructions inhibit the signal direction, this will lead to reduced performance.





Y1809-DECT

Radome Enclosed Directional Yagi UHF/D.E.C.T. and PHS 1.88-1.9 GHz



The Y1809-DECT is a directional point-to-point, data link mast mount Yagi, suitable for Digitally Enhanced Cordless Telecommunications (D.E.C.T.) UHF applications or PHS applications within the 1.88-1.9 GHz frequency range.

Coaxial feeder cable, water-proofing, bird proofing and other installation accessories are all available separately.

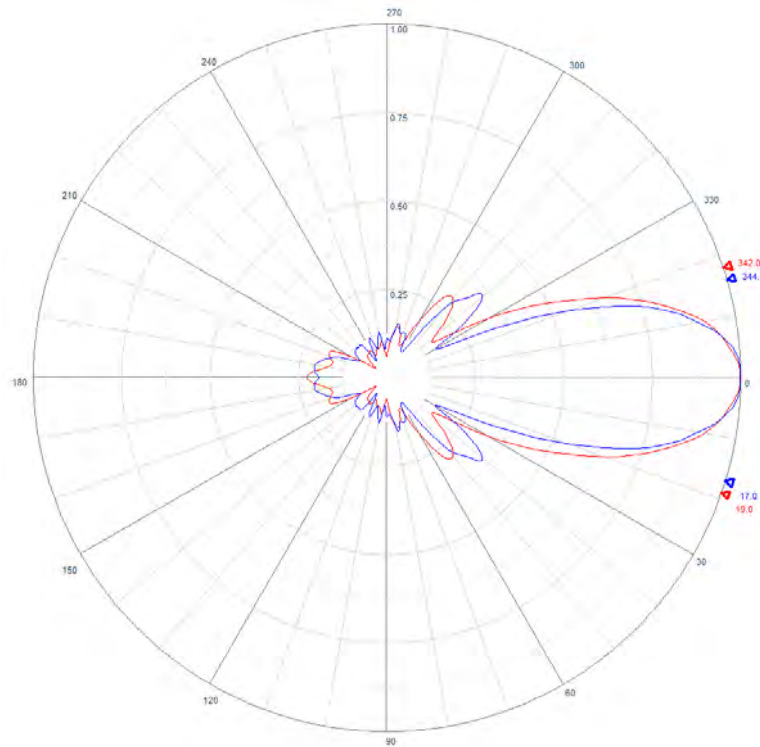
Construction	White fibreglass radome and aluminium mount plate	
Frequency range	D.E.C.T. or PHS 1.88-1.9GHz	
Bandwidth	Full frequency range	
VSWR	<1.5:1	
Tuning	Factory	
Number of elements	9	
Gain - nominal	11.3dBi	
Impedance	50 Ohms	
Maximum power	25 Watts	
Polarisation	Mount horizontal or vertical as required	
H Plane	36°	
E Plane	43°	
Front-to-back ratio	-20dB	
DC grounding	Yes	
Cable Tail	5.0 metres RG142B/U low loss	
Connector	N-type female fitted as standard - rear exit	
Dimensions	Length: 300mm, Width: 100mm, Height: 160mm	
Weight	2.0kg	
Projected area	0.016m ²	
.Wind load at 160kph	Side: 1.984kg, 0.019kN	Front: 3.504kg, 0.034kN
Mounting hardware supplied	Aluminium mount plate, 2 x galvanised steel V-blocks , 2 x 50mm diameter galvanised steel U-bolts	
Installation tools required	13mm spanner for U-bolt securing	



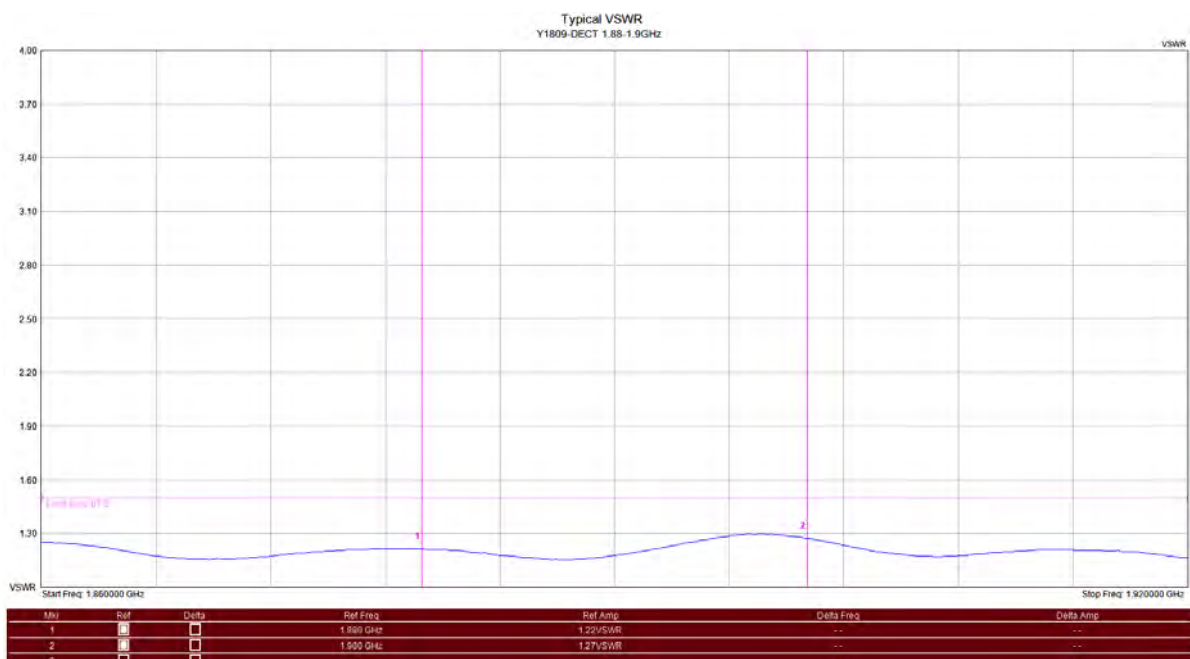
Y1809-DECT

Radome Enclosed Directional Yagi

UHF/D.E.C.T. and PHS 1.88-1.9 GHz



Example radiation pattern



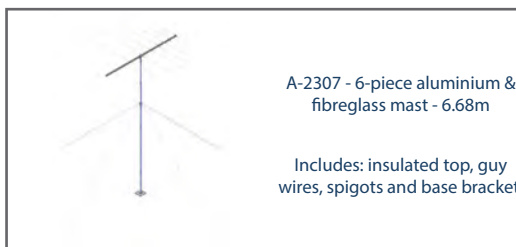
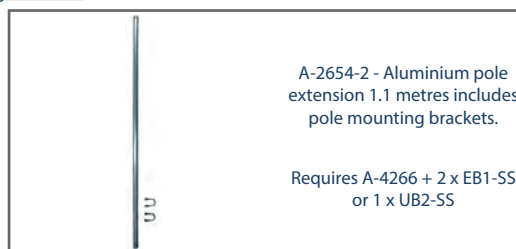
Typical VSWR

Y1809-DECT

Radome Enclosed Directional Yagi

UHF/D.E.C.T. and PHS 1.88-1.9 GHz

Suitable mounting hardware

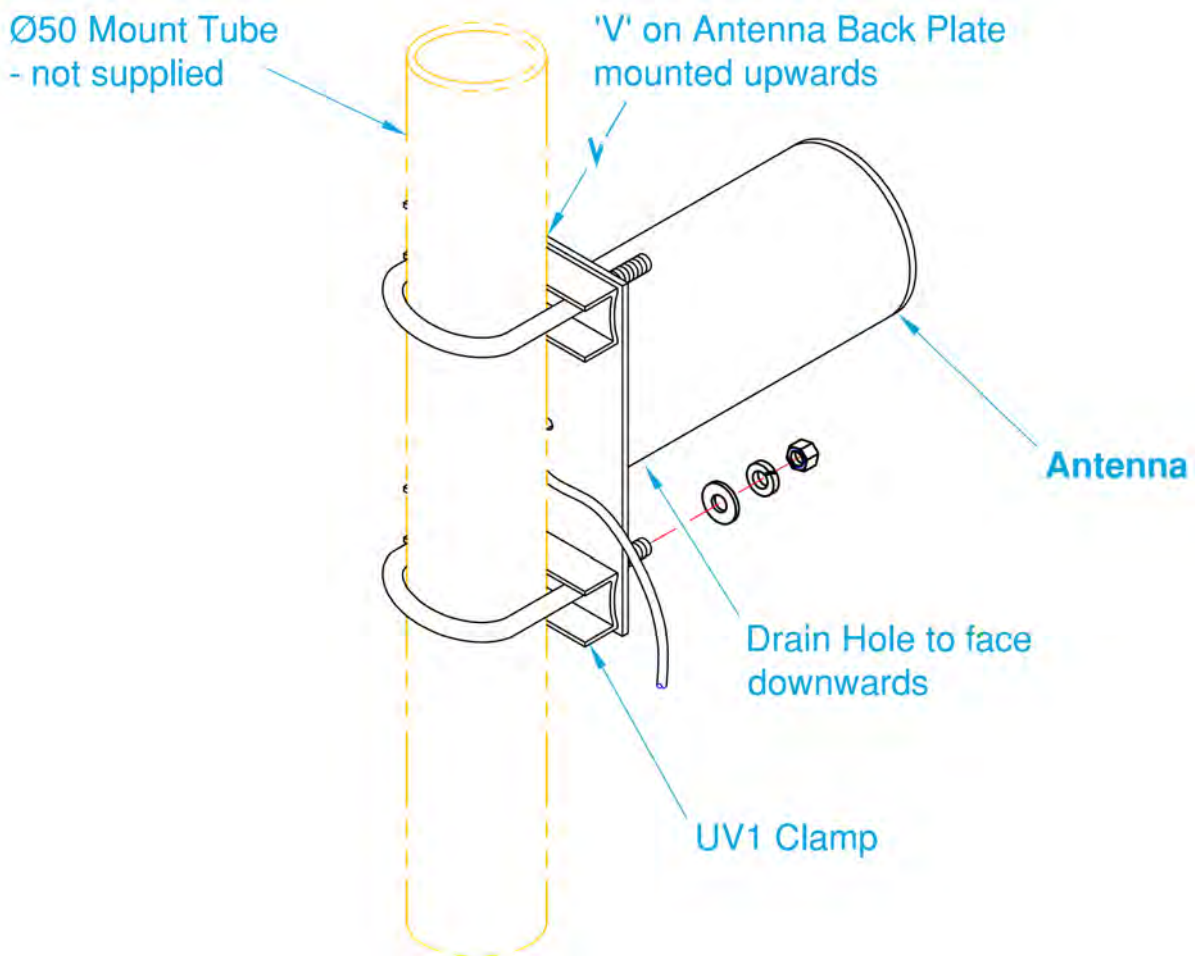


Suitable feeder coaxial cable and connectors



Y1809-DECT

Radome Enclosed Directional Yagi
UHF/D.E.C.T. and PHS 1.88-1.9 GHz



Vertical Polarisation:

Y1818-DECT

Radome Enclosed Directional Yagi

UHF/D.E.C.T. or PHS 1.8-1.9 GHz



The Y1818-DECT is a directional point-to-point, wireless data link mast mount Yagi, suitable for Digitally Enhanced Cordless Telecommunications (D.E.C.T.) UHF applications or PHS applications within the 1.88-1.9 GHz frequency range.

Coaxial feeder cable, water-proofing, bird proofing and other installation accessories are all available separately.

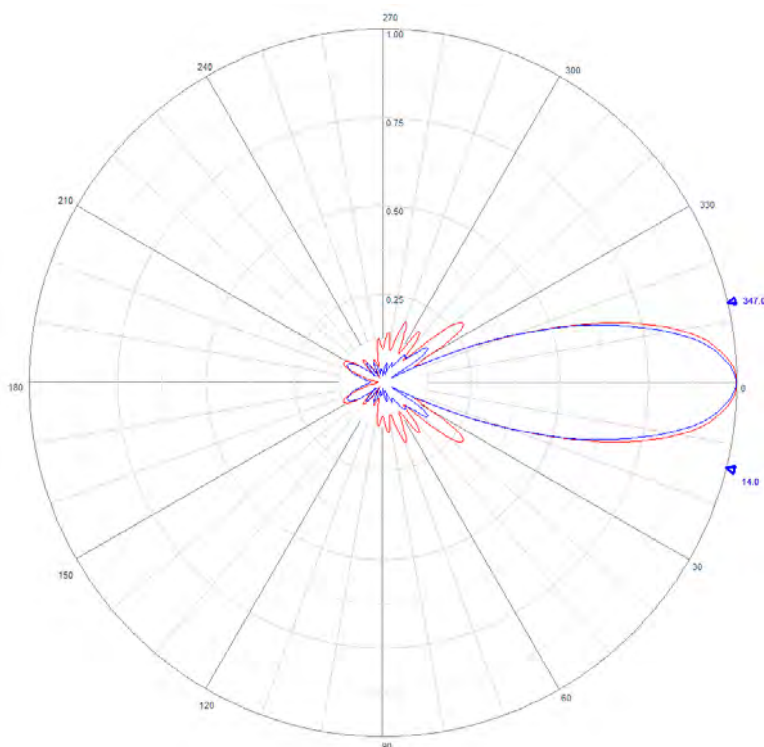
Construction	White fibreglass radome and aluminium mount plate	
Frequency range	1.8-1.9 GHz - UHF, D.E.C.T. or PHS compatible	
Bandwidth	Full frequency range stated - 100 MHz	
VSWR	<1.5:1	
Tuning	Factory	
Number of elements	18	
Gain	15.3 dBi	
Impedance	50 Ohms	
Maximum power	25 Watts	
Polarisation	Mount horizontal or vertical as required	
H Plane	23°	
E Plane	26°	
Front-to-back ratio	-20 dB	
DC grounding	Yes	
Cable	5 metres MIL-SPEC RG58 low loss - rear exit from plate	
Connector	N-type female fitted to cable	
Dimensions	Length: 950mm, Width: 100mm, Height: 160mm	
Weight	3.5kg	
Projected area	0.051m ²	
Wind load at 160kph	Side: 6.204kg, 0.061kN	Front: 3.504kg, 0.034kN
Mounting hardware supplied	Aluminium mount plate, 2 x galvanised steel V-blocks , 2 x 50mm diameter galvanised steel U-bolts	
Installation tools required	13mm spanner for mounting U-bolts	



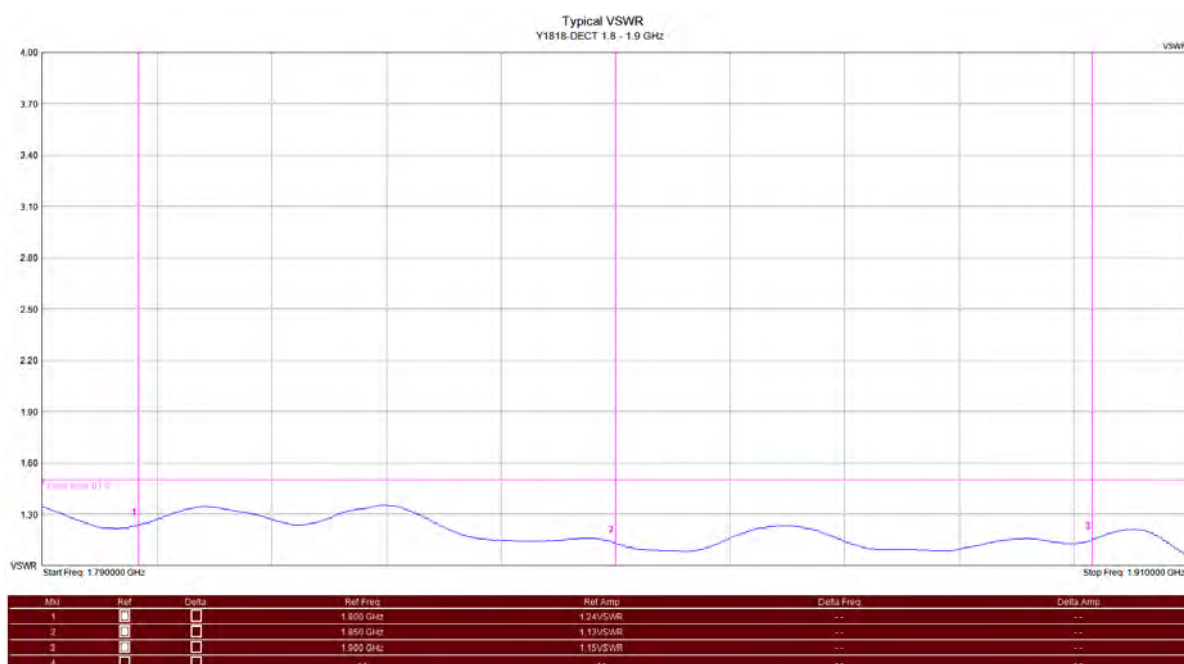
Y1818-DECT

Radome Enclosed Directional Yagi

UHF/D.E.C.T. or PHS 1.8-1.9 GHz



Example radiation pattern



Typical VSWR





Y1818-DECT

Radome Enclosed Directional Yagi

UHF/D.E.C.T. or PHS 1.8-1.9 GHz



Suitable mounting hardware

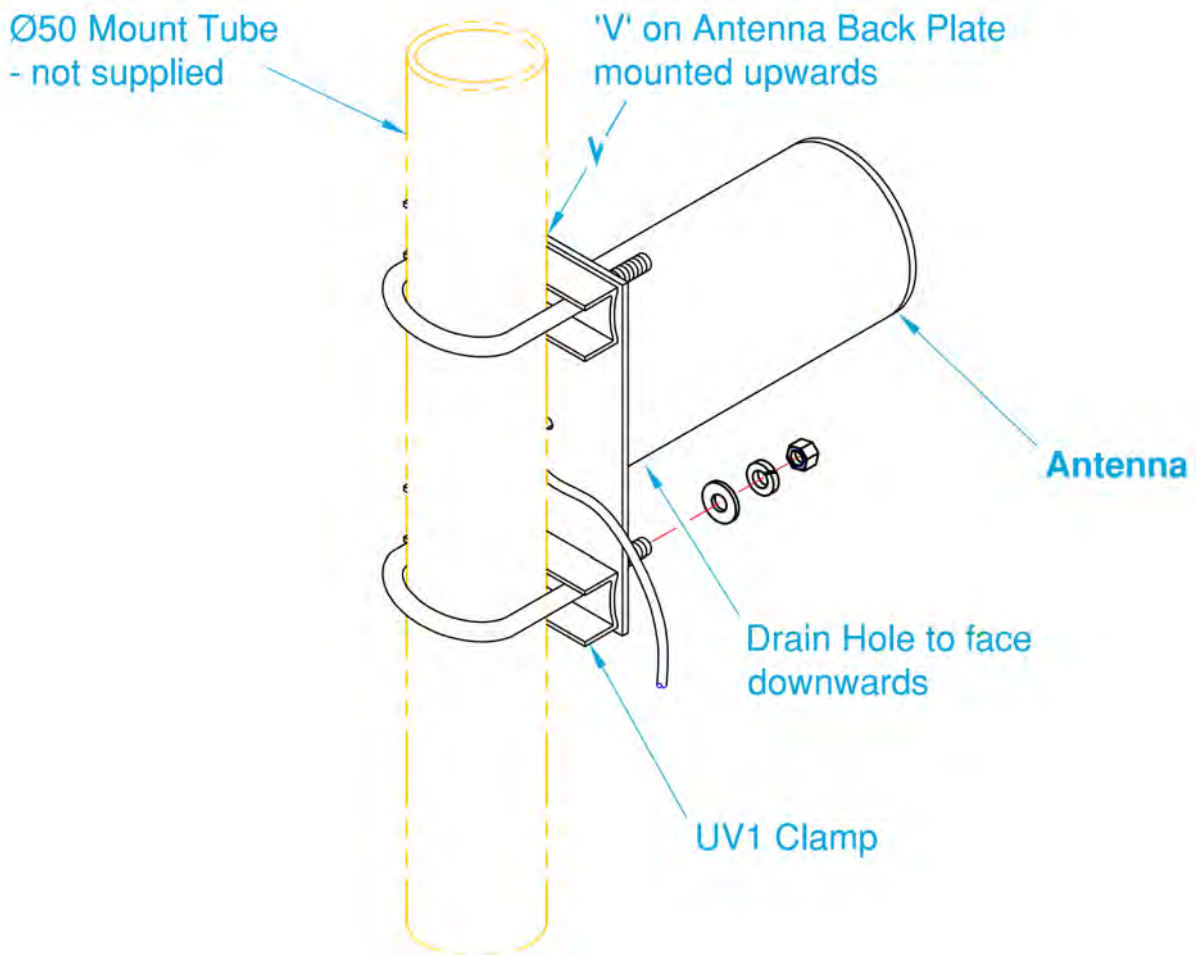
 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>
 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2307 - 6-piece aluminium & fibreglass mast - 6.68m</p> <p>Includes: insulated top, guy wires, spigots and base bracket.</p>

Suitable feeder coaxial cable and connectors

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave) P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor</p> <p>P/N 8226</p> <p>Tri-metal plated</p>
 <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (™ times microwave) P/N 7890-3</p> <p>Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU600 low loss, solid conductor</p> <p>P/N 8226-2</p> <p>Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable</p> <p>P/N NM1250SF</p> <p>Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable</p> <p>P/N NM1250</p> <p>Tri-metal plated</p>

Y1818-DECT

Radome Enclosed Directional Yagi
UHF/D.E.C.T. or PHS 1.8-1.9 GHz



Vertical Polarisation:



Y1000 Series 12.7mm Yagi's

High gain 12.7mm square boom aluminium Yagi's

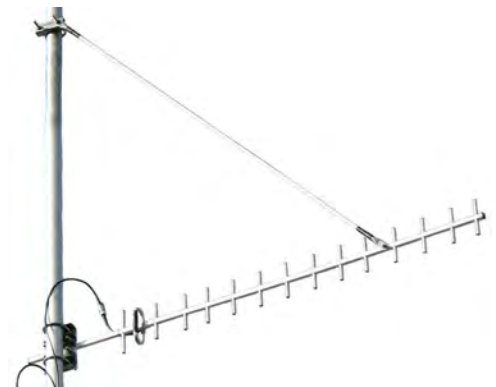
UHF 1090-1620 MHz



The Y1 series of 12.7mm RHS Yagi's are specifically designed and manufactured for highly directional applications in the UHF frequency range 1150-1620 MHz. Suitable for highly directional links or data transfer.

Please note: The Y1000 series below require an A-12 mounting clamp and will not fit into ZCG's standard range of Yagi mounting clamps.

Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.



	Y1115	Y1215	Y1315
Construction	Welded corrosion resistant aluminium boom, elements, dipole with external coaxial cable and termination		
Frequency range	1090 MHz -ADS-B	1200 MHz - UHF 1150-1250 MHz	1300 MHz - UHF 1250-1350 MHz
Bandwidth	Full specified frequency range		
VSWR	<1.5:1		
Tuning	Factory		
Gain	14 dBd		
Polarisation	Mount horizontal or vertical as required		
Maximum power	125 Watts		
Impedance	50 Ohms		
H Plane	28°		
E Plane	30°		
DC grounding	Yes		
Connector - fitted	N-type female		
Boom dimensions	12.7mm x 1.35m		12.7mm x 1.3m
Longest element	132mm		129mm
Weight	1.5kg		
Projected area	0.038m ²		
Wind load at 160kph	4.63kg, 0.04kN		
Mounting hardware order separate	1 x A12-7 for up to 50mm capable mount pole + strut kit, consult ZCG for suitable strut options.		
Mounting position recommended	Ensure the antenna is clear from obstructions or other installed antennas. If vertical polarisation, ensure drain hole faces down.		



N-type female fitted as standard or specify requirements



Y1000 Series 12.7mm Yagi's

High gain 12.7mm square boom aluminium Yagi's

UHF 1090-1620 MHz



The Y1 series of 12.7mm RHS Yagi's are specifically designed and manufactured for highly directional applications in the UHF frequency range 1150-1620 MHz. Suitable for highly directional links or data transfer.

Please note: The Y1000 series below require an A-12 mounting clamp and will not fit into ZCG's standard range of Yagi mounting clamps.

Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.

	Y1515	Y1615
Construction	Welded corrosion resistant aluminium boom, elements, dipole (enclosed Y1615) with external coaxial cable and termination	
Frequency range	1420-1520 MHz - UHF	1520-1620 MHz - UHF
Bandwidth	Full specified frequency range - 100 MHz	
VSWR	<1.5:1	
Tuning	Factory	
Gain	14 dBd	
Polarisation	Mount horizontal or vertical as required	
Maximum power	125 Watts	
Impedance	50 Ohms	
H Plane	28°	27°
E Plane	30°	29°
DC grounding	Yes	
Connector - fitted	N-type female	
Boom dimensions	12.7mm x 1.4m	12.7mm x 980mm
Longest element	105mm	90mm
Weight	1.35kg	1.2kg
Projected area	0.035m ²	0.033m ²
Wind load at 160kph	4.01kg, 0.04kN	3.98kg, 0.039kN
Mounting hardware order separate	1 x A12-7 for up to 50mm capable mount pole or consult ZCG for large capable options.	
Mounting position recommended	Ensure the antenna is clear from obstructions or other installed antennas. Mount the Yagi with the dipole enclosure on the top - applies to Y1615 model only.	

Y1215 / Y1315 & Y1515



Y1615



N-type female fitted as standard or specify requirements



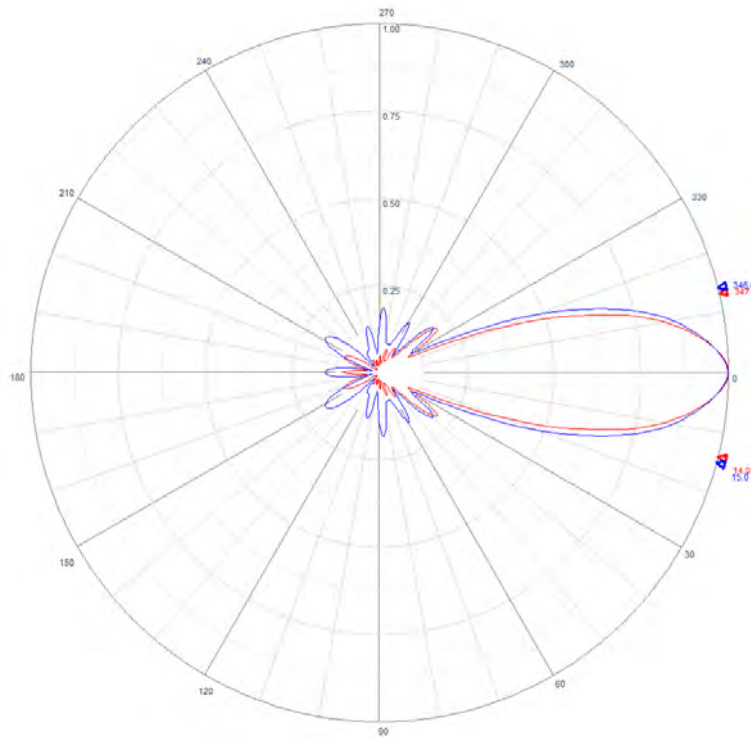
Radome enclosed radiating dipole on top of Yagi - Y1615 model only



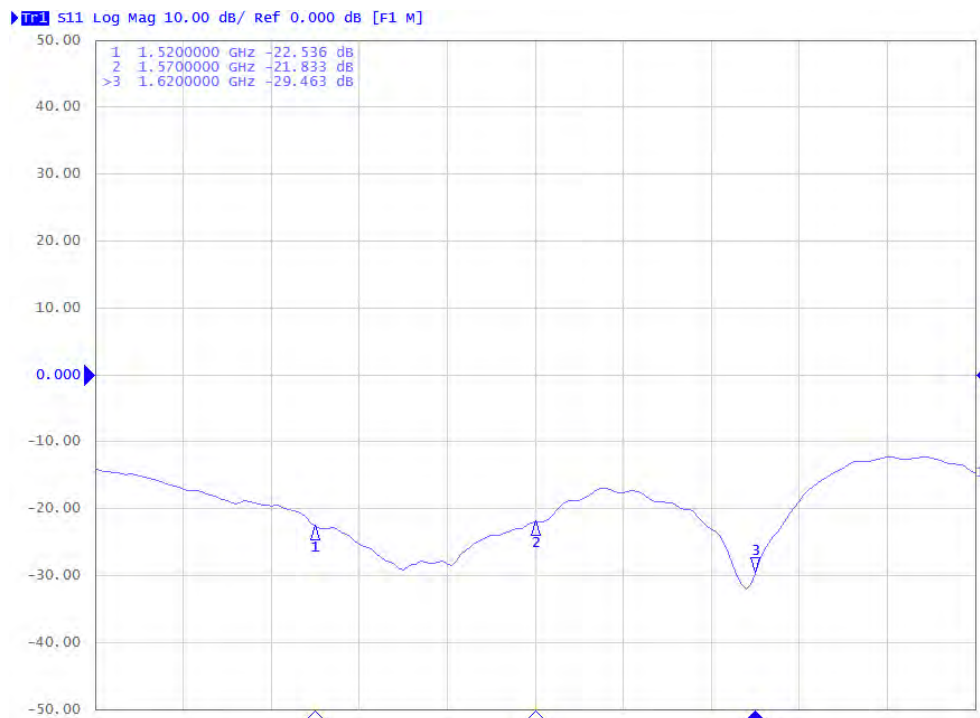
Y1000 Series 12.7mm Yagi's

High gain 12.7mm square boom aluminium Yagi's

UHF 1090-1620 MHz



Example radiation pattern - Y1615








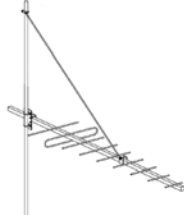
Typical return loss - Y1615

Y1000 Series 12.7mm Yagi's

High gain 12.7mm square boom aluminium Yagi's

UHF 1090-1620 MHz

Suitable mounting hardware

 <p>A12-7 - aluminium and galvanised steel Right-angle for 12.7mm RHS 30-50mm mount pole</p>	 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires mounting screws/ bolts and mounting hardware for antenna</p>
 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires mounting screws/ bolts and mounting hardware for antenna</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires mounting screws/ bolts and mounting hardware for antenna</p>
 <p>A-2307 - 6-piece aluminium & fibreglass mast - 6.68m</p> <p>Includes: insulated top, guy wires, spigots and base bracket.</p>	 <p>REQUIRES MODIFICATION</p> <p>YS1-48</p> <p>For 9-15 element Yagi's</p> <p>Single tension strut support</p> <p>Includes Yagi and mount pole mounting hardware.</p> <p>Mount pole not supplied</p>

Suitable feeder coaxial cable

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (* times microwave) P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor</p> <p>P/N 8226</p> <p>Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable</p> <p>P/N NM1250SF</p> <p>Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable</p> <p>P/N NM1250</p> <p>Tri-metal plated</p>



CP2400-15

End fire helical right-hand circular collinear

WiFi/WLAN & ISM 2.4-2.5 GHz



The CP2400-15 is a directional right-hand circular polarised, end fired helical collinear. A helically wound right-hand circular polarised antenna will reduce unwanted signal interference and reflections. The end fired design is particularly well suited for point-to-point data communications such as WiFi/WLAN, wireless broadband or data transfer applications

Mounting hardware, coaxial feeder cable, adaptors and other installation accessories are all available separately.



Construction	White fibreglass radome, stainless steel mount section and external termination
Frequency range	2.4-2.5 GHz - ISM & WiFi/WLAN compatible
Bandwidth	Full frequency range stated - 100 MHz
VSWR	<1.5:1
Tuning	Factory
Gain	17.1 dBi
Polarisation	Right-hand circular (RHCP)
Circularity	<2 dB
Impedance - nominal	50 Ohms
Maximum power	50 Watts
H Plane	17°
E Plane	19°
Front-to-back ratio	15dB
DC grounding	Yes
Connector	N-type female in rear of mount section - fitted as standard
Length	1.12 metres
Weight	1.5kg
Mount section	220mm x 50mm ø - 304 stainless steel
Mounting requirements	Mount the antenna in a horizontal configuration must like a Yagi
Mounting hardware order separate	Parallel: 1 x UB3-SS or 2 x EB1-SS Right-angle: 1 x UB2-SS or 2 x RB8 Side/Wall mounting: 1 x NSM-223

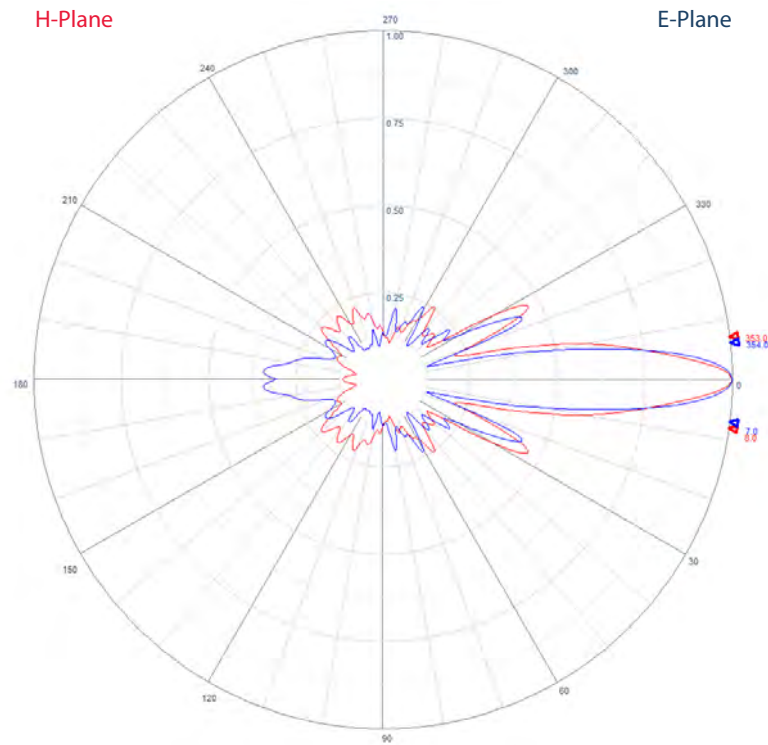


N-type female fitted to rear of antenna

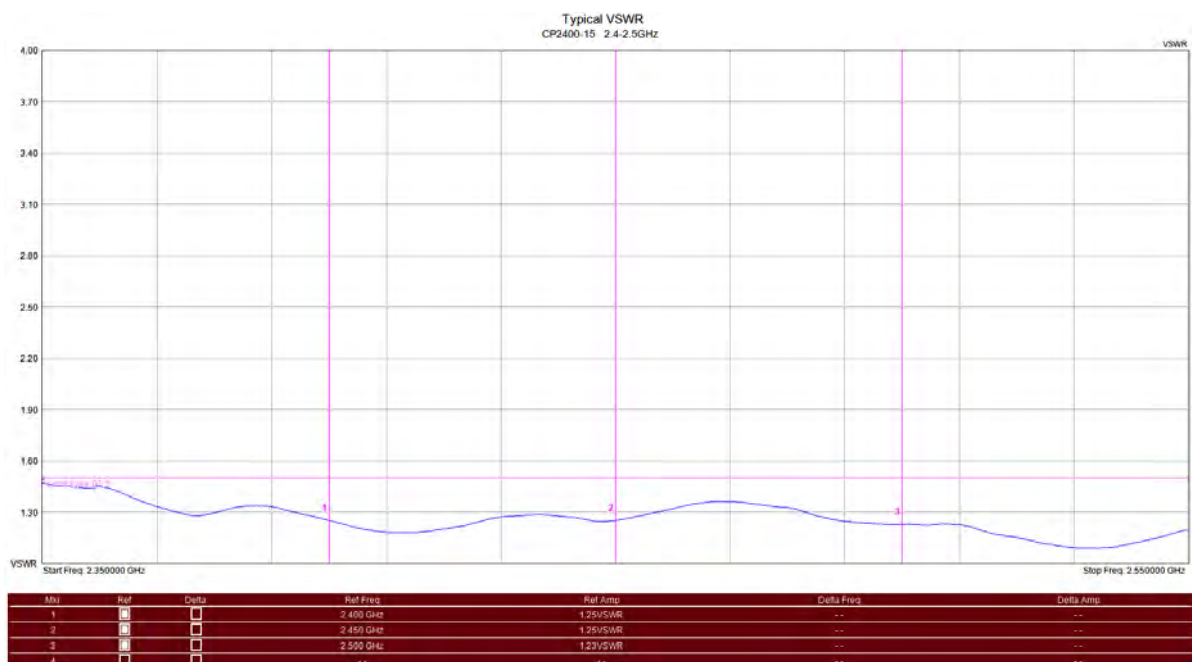


CP2400-15

End fire helical right-hand circular collinear
WiFi/WLAN & ISM 2.4-2.5 GHz



Example radiation pattern










Typical VSWR

CP2400-15

End fire helical right-hand circular collinear

WiFi/WLAN & ISM 2.4-2.5 GHz

 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>
 <p>SFB900 - Galvanised steel straight extension brackets - 900mm or specify length requirements</p> <p>Requires 2 x EB1-SS or 1 x UB2-SS for antenna mounting</p>	 <p>EB1-SS - requires 2 304 stainless steel parallel clamp</p> <p>Boom: 20-40mm capability</p> <p>Mount pole: 25-45mm capability</p>
 <p>RB8 - requires 2 Galvanised steel right-angle clamp</p> <p>Boom: 20-40mm capability</p> <p>Mount pole: 20-40mm capability</p>	 <p>UB2-SS 304 stainless steel right-angle clamp</p> <p>Boom: 20-50mm capability</p> <p>Mount pole: 20-50mm capability</p>
 <p>NSM-223 - requires 2 Toughened white nylon side/wall mount clamp</p> <p>Boom: 50mm capability</p> <p>Mount requirements: 16mm hole</p>	

Suitable coaxial feeder cables

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave)</p> <p>P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor</p> <p>P/N 8226</p> <p>Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable</p> <p>P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable</p> <p>P/N NM1250</p> <p>Tri-metal plated</p>



DLD2400

Omni-directional stud mount dipole

WiFi/WLAN & ISM 2.4-2.5 GHz



The DLD2400 is a stud mount dipole specifically designed for 2.4 GHz ISM or WiFi band. The small profile of this antenna allows for it to covertly be installed with minimal visual impact.

Mounting hardware, coaxial feeder cable, adaptors and other installation accessories are all available separately.

Construction	Black PVC radome, black delrin ferrule, internal PCB, external coaxial cable and termination
Frequency range	2.4-2.5 GHz - ISM & WiFi/WLAN compatible
Bandwidth	Full frequency range stated - 100 MHz
VSWR	<2.45:1 - 2.4-2.42 GHz <1.8:1 - 2.42-2.5 GHz
Tuning	Factory
Gain	2.1 dBi
Impedance - nominal	50 Ohms
Maximum power	20 Watts
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional
Cable	600mm RG316, bottom exit - or specify length requirements
Connector	SMA male fitted as standard - or specify requirements
Height	115mm
Weight	40grams
Mounting hardware order separate	Bracket: GM1, GM2, GM6, A-6211, A-4115 or A-4115-2 Hole: 12.7mm diameter
Mounting position recommended	Mount as high on your structure, pole or mast as possible using the appropriate mounting brackets. Do not mount near any vertical metallic objects.
Installation tools required	19mm or 3/8" spanner for base nut securing



Black delrin mount ferrule with securing nut and external coaxial cable.

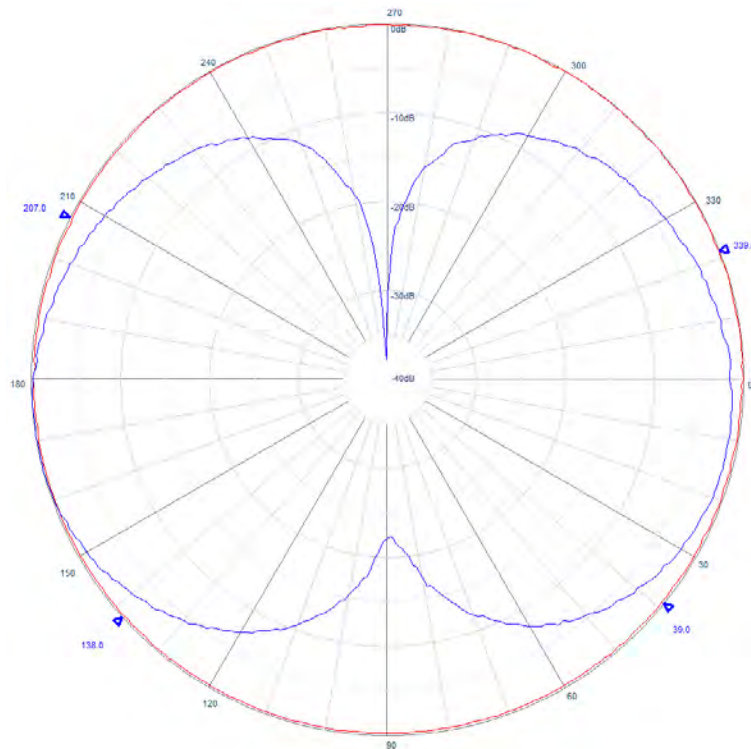


SMA male plug connector fitted to RG316 coaxial cable

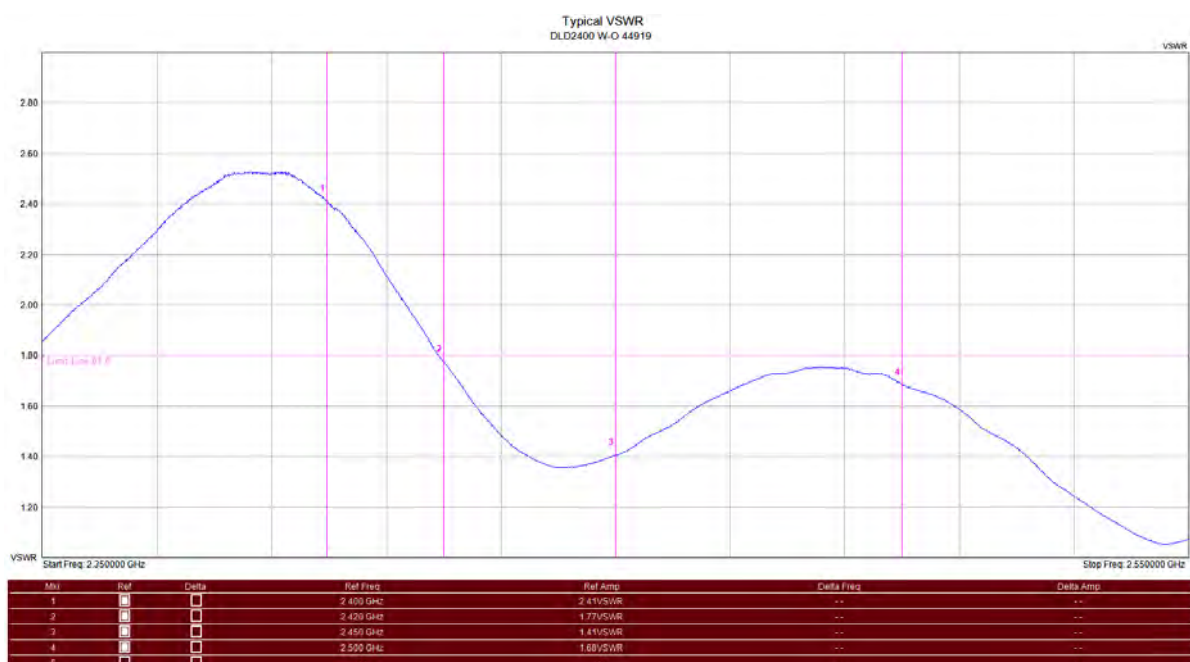
DLD2400

Omni-directional stud mount dipole

WiFi/WLAN & ISM 2.4-2.5 GHz



Example radiation pattern



Typical VSWR

DLD2400

Omni-directional stud mount dipole

WiFi/WLAN & ISM 2.4-2.5 GHz

 <p>GM1 - 304 stainless steel 'L' fascia mount bracket 16mm hole Requires mounting screws/bolts - not supplied</p>	 <p>GM2 - 304 stainless steel 'Z' fascia mount bracket 16mm hole Requires mounting screws/bolts - not supplied</p>
 <p>MRM-SS 304 stainless steel 'clamp' mounting bracket 20-25mm capability 16mm hole</p>	 <p>GM6 - 304 stainless steel 'L' fascia mount bracket 16mm slot Requires mounting screws/bolts - not supplied</p>
 <p>MRM-SS 304 stainless steel 'clamp' mounting bracket 20-25mm capability 16mm hole</p>	 <p>BBM-SS series 304 stainless steel 'wrap around' mounting bracket 50-76mm capability depending on model 16mm hole</p>
 <p>A-4115-2 - aluminium 'L' fascia mount bracket 12.7mm hole, 35mm offset Requires mounting screws/bolts - not supplied</p>	 <p>A-6211 - 304 stainless steel 'L' fascia mount bracket 16mm hole, 200mm offset Requires mounting screws/bolts - not supplied</p>
 <p>MGB Powdercoated black internal magnet mount base 16mm hole 105mm diameter Can be fitted during manufacture includes scratch reduction pad on base</p>	

Typical alternate connectors

 <p>P/N 7963-10 Reverse gender SMA male crimp termination Also available in standard gender and opposite gender</p>	 <p>P/N 8278 N-type male termination Suits mobile/telemetry devices Also available in alternate gender</p>
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MD2400 series

Omni-directional broadband stud mount collinear

ISM & WiFi/WLAN 2.4-2.5 GHz



The MD2400 series of ground independent omni-directional data link collinears are specifically designed for ISM2.4 or Wifi applications within the UHF 2.4-2.5 GHz frequency range.



Mounting hardware, coaxial feeder cable, adaptor and other installation accessories are all available separately.

	MD2400-B	MD2400-W*
Radome colour	Black	White
Construction	Fibreglass radome, aluminium ferrule, aluminium cap, external cable assembly and termination	
Frequency range	2.4-2.5 GHz - ISM & WiFi/WLAN compatible	
Bandwidth	Full frequency range stated - 100 MHz	
VSWR	<1.5:1	
Tuning	Factory	
Gain	2.1 dBi	
Impedance - nominal	50 Ohms	
Maximum power	10 Watts	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	360° omnidirectional	
Cable	5 metres RG58 low loss, solid core - side exit from ferrule	
Connector	SMA male fitted as standard - or specify requirements	
Height	230mm	
Weight	150grams	
Mounting hardware order separate	Hole: minimum 13mm Bracket: GM1, GM2, A-6211, A-4115 or A-4115-2 Mount: ATLM series, BBM-SS or BBKB-B	
Mounting position recommended	Mount antenna as high as possible on your structure/building or tower as possible ensuring no obstructions.	
Installation tools required	19mm spanner for nut securing	

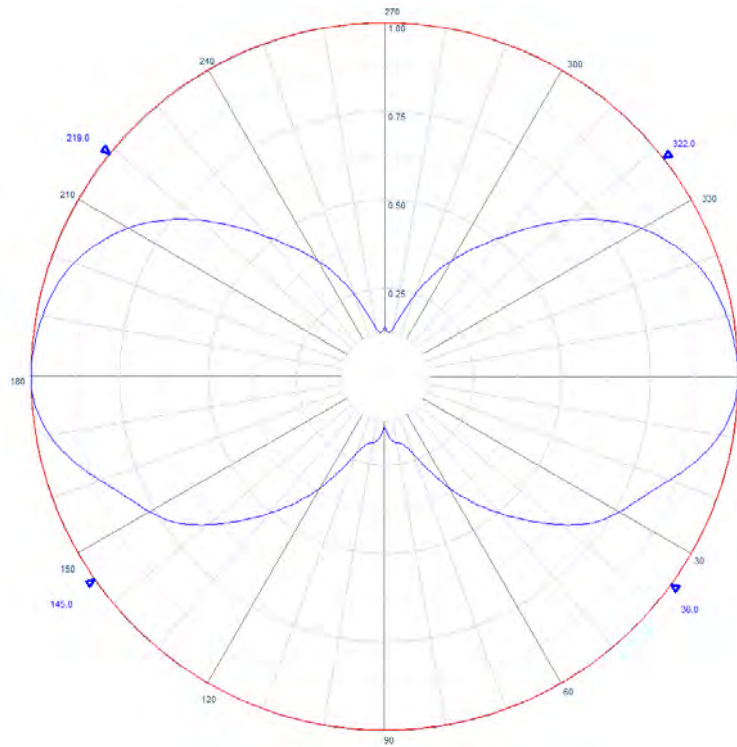


SMA male fitted as standard or specify requirements

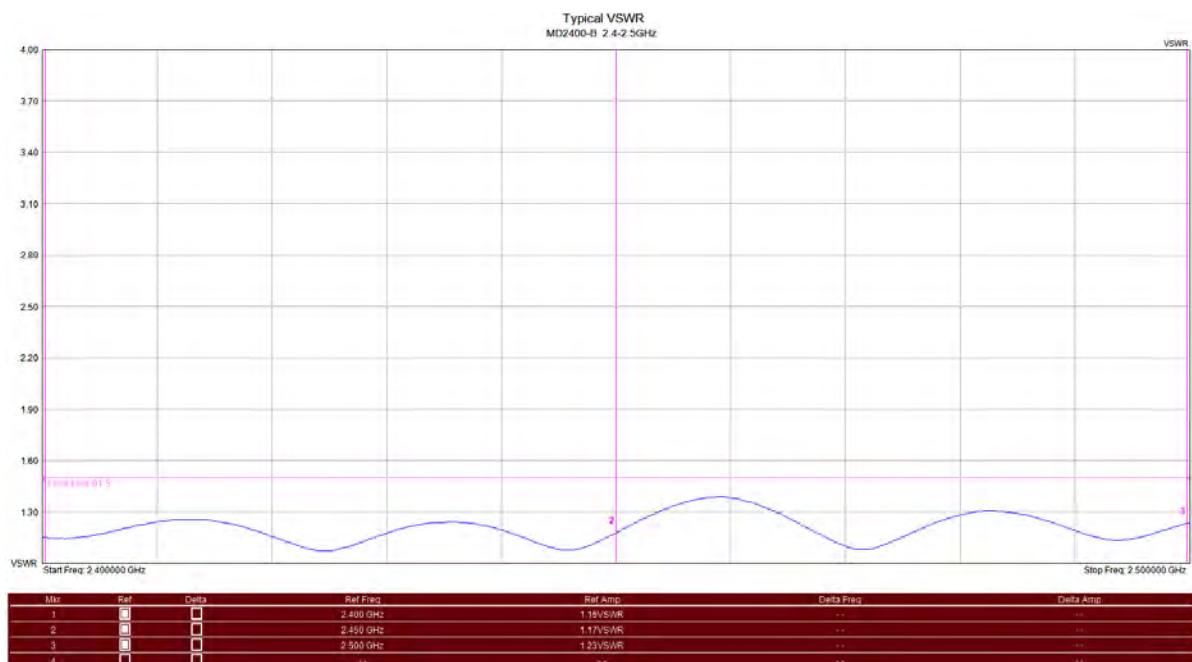
MD2400 series

Omni-directional broadband stud mount collinear

ISM & WiFi/WLAN 2.4-2.5 GHz



Example radiation pattern

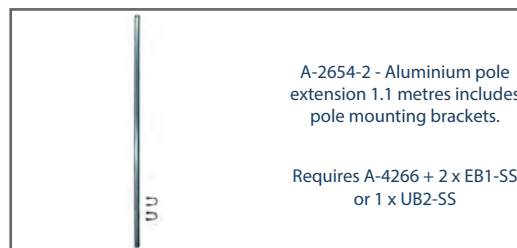
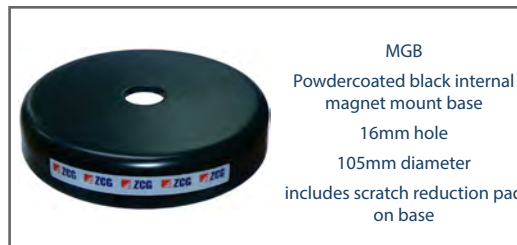
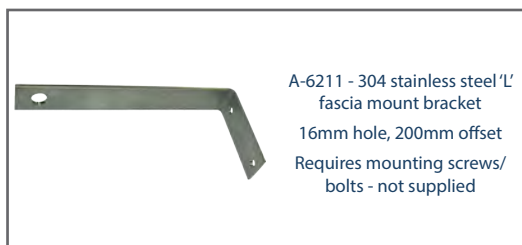
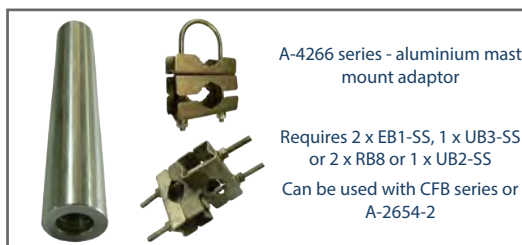


Typical VSWR

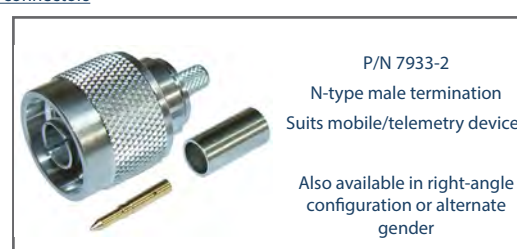
MD2400 series

Omni-directional broadband stud mount collinear

ISM & WiFi/WLAN 2.4-2.5 GHz



Typical alternate connectors





MD2400-SPB

Omni-directional parallel spring mount collinear

ISM & WiFi/WLAN 2.4-2.5 GHz



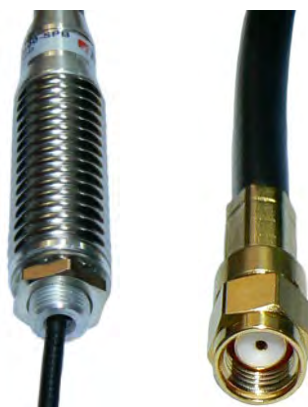
The MD2400-SPB is a spring mounted ground independent omni-directional data link collinear and is especially designed for the ISM and WiFi/WLAN 2.4-2.5 GHz frequency range.

This antenna is designed for vehicle mounting where vibration and movement causes problems.

Mounting hardware, water-proofing, alternative connectors and other installation accessories are all available separately.



Construction	Black fibreglass radome, aluminium ferrule, stainless steel light to medium-duty parallel spring base, external cable assembly and termination
Frequency range	2.4-2.5 GHz - ISM & WiFi/WLAN compatible
Bandwidth	Full frequency range stated - 100 MHz
VSWR	<1.5:1
Tuning	Factory
Gain	2.1 dBi
Impedance - nominal	50 Ohms
Maximum power	10 Watts
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional
Cable	5 metres RG58 low loss, bottom exit out of spring or specify length requirements
Connector	Reverse gender SMA male fitted to cable as standard or specify requirements
Height	300mm
Weight	250grams
Mounting hardware order separate	Hole: minimum 16mm Bracket: GM1, GM2, GM6, ATLM series, BBM series, BBKB-B or MRM-SS
Mounting position recommended	Mount as high on your structure or vehicle as possible using any bracket or hole with a diameter of 16mm
Installation tools required	22mm spanner for nut securing



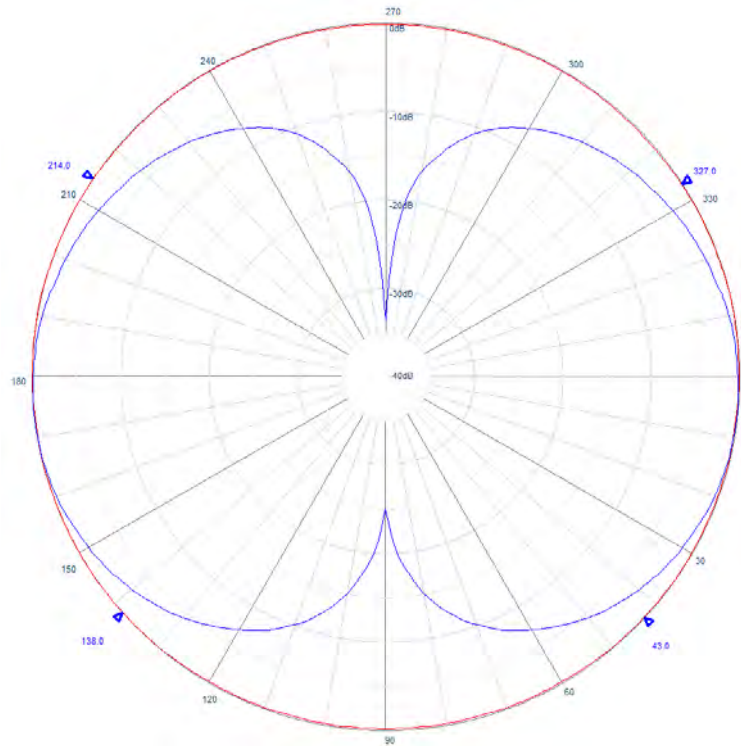
Parallel spring base with cable bottom exit

Reverse polarity SMA male fitted as standard

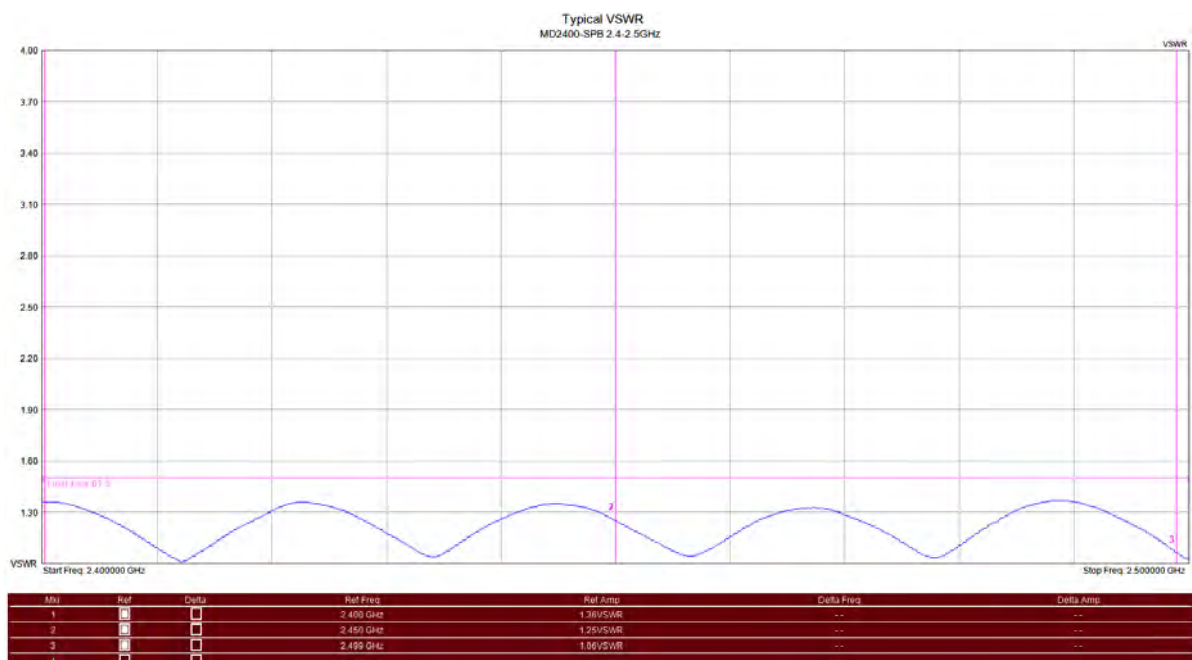


MD2400-SPB

Omni-directional parallel spring mount collinear
ISM & WiFi/WLAN 2.4-2.5 GHz



Example radiation pattern



Typical VSWR



SG2400-8

Omni-directional parallel spring base high gain collinear

ISM & WiFi/ WLAN 2.4-2.5 GHz



The SG2400-8 omni-directional WiFi/WLAN/ Industrial, Scientific and medical I.S.M. 2.4 data link collinear are suitable for light-duty vehicle or fixed position mounting via the light-duty parallel stainless steel spring base.

Mounting hardware, coaxial feeder cable, water-proofing, adaptors and other installation accessories are all available separately.



Construction	Parallel fibreglass radome, specify black or white, aluminium ferrule, parallel spring base, external cable and termination
Frequency range	2.4-2.5 GHz - ISM & WiFi/WLAN compatible
Bandwidth	Full frequency range stated - 100 MHz
VSWR	Average: <1.8:1, Maximum <2:1
Tuning	Factory
Gain	8 dBi
Impedance - nominal	50 Ohms
Maximum power	10 Watts
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional
E Plane	17°
Cable	5.0m RG58 low loss, solid core - bottom exit from spring
Connector	Reverse gender SMA male fitted as standard, or specify requirements
Height	630mm
Weight	295grams
Mounting requirements	Using the 16mm thread on base of spring
Mounting hardware order separate	Any bracket or hole with a diameter 16mm hole Bracket: GM1, GM2, GM6, BBKB-B, ATLM or A-6211 Bullbar/Mirror mount: BBM-SS, BBML-SS or MRM-SS
Installation tools required	22mm spanner for nut securing



Light to medium-duty parallel spring to maintain vertical polarisation

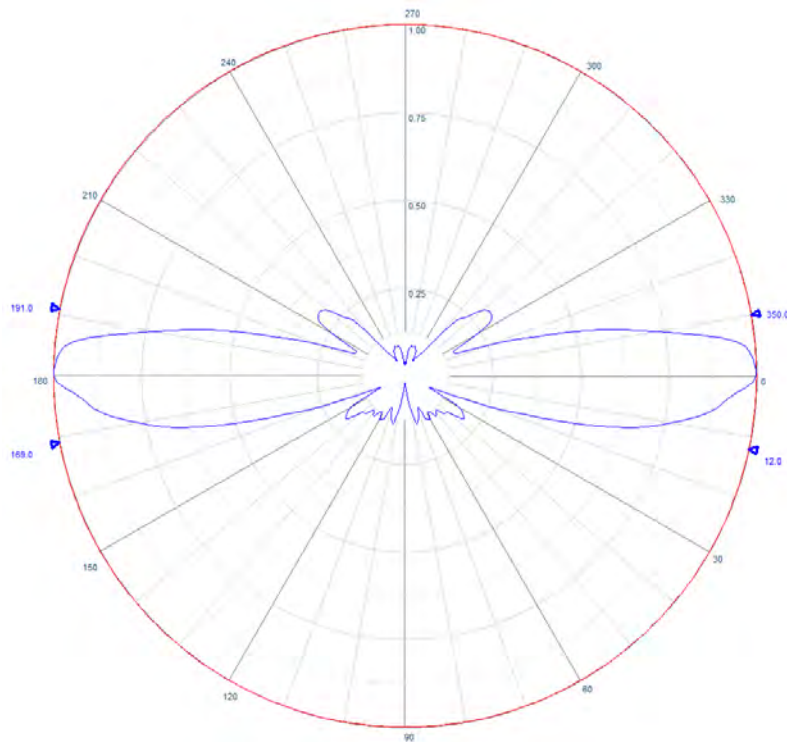


SMA male fitted as standard or specify requirements

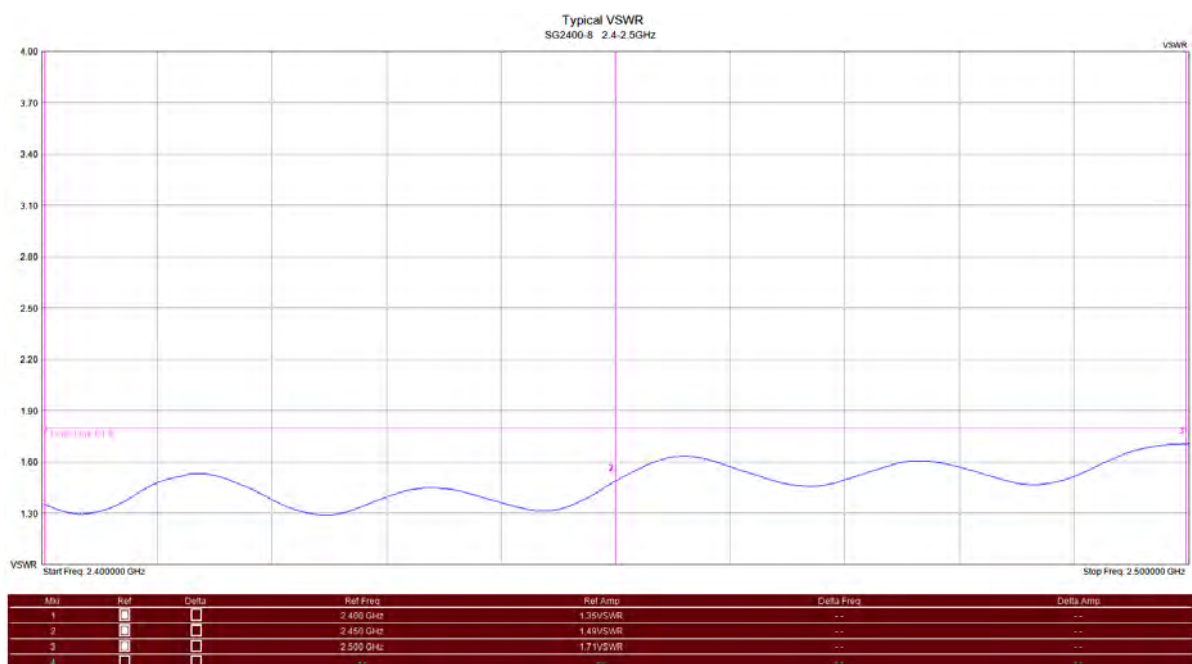


SG2400-8

Omni-directional parallel spring base high gain collinear
ISM & WiFi/ WLAN 2.4-2.5 GHz



Example radiation pattern



Typical VSWR at 825-960MHz

SG2400-8

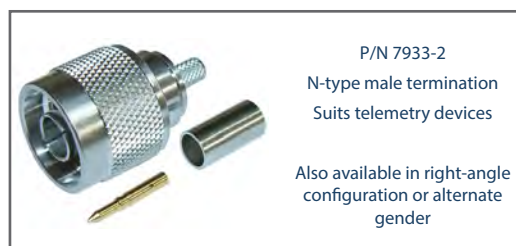
Omni-directional parallel spring base high gain collinear
ISM & WiFi/ WLAN 2.4-2.5 GHz



Recommended installation accessories



Typical alternate Connectors





SG2400 series

Omni-directional stud, flange or directional rear screen collinear

ISM & WiFi/ WLAN 2.4-2.5 GHz



These omni-directional WiFi/WLAN/ Industrial, Scientific and medical I.S.M. 2.4 data link collinears have models designed to be mounted either using a bracket or hole, or by the attached flange or rear screen, to suit any installation requirements.

Mounting hardware, coaxial feeder cable, water-proofing, adaptors and other installation accessories are all available separately.



	SG2400-TPM	SG2400-R	SG2400-RS*
Construction	White fibreglass radome, aluminium ferrule and termination	White fibreglass radome, grey PVC base and cable assembly	White fibreglass radome and aluminium rear screen
Frequency range	2.4-2.5 GHz - ISM & WiFi/WLAN compatible		
Bandwidth	Full frequency range stated - 100 MHz		
VSWR	<2:1		
Tuning	Factory		
Gain	5.14 dBi		8.1 dBi
Impedance - nominal	50 Ohms		
Maximum power	10 Watts		
DC grounding	Yes		
Polarisation	Vertical		
H Plane	360° omnidirectional		120°
Cable	500mm RG58 low loss, side exit or base exit or specify cable length requirements		No cable
Connector	TNC male fitted as standard, or specify requirements		N-type female in base of antenna
Height	550mm	380mm	495mm
Weight	220grams	320grams	480grams
Mounting requirements	Minimum 13mm hole for threaded base and nut	Using the 100mm flange base	Using supplied mounting hardware
Mounting hardware order separate	Any bracket or hole with a diameter 13mm hole Bracket: GM1, GM2, GM6 or A-6211	Secure 100mm flange to flat surface using 2 appropriate screws/bolts	2 x stainless steel u-bolts 50-80mm capability - supplied
Installation tools required	22mm spanner for nut securing	-	13mm or 1/2" spanner for U-bolt securing



SG2400-TPM



SG2400-R



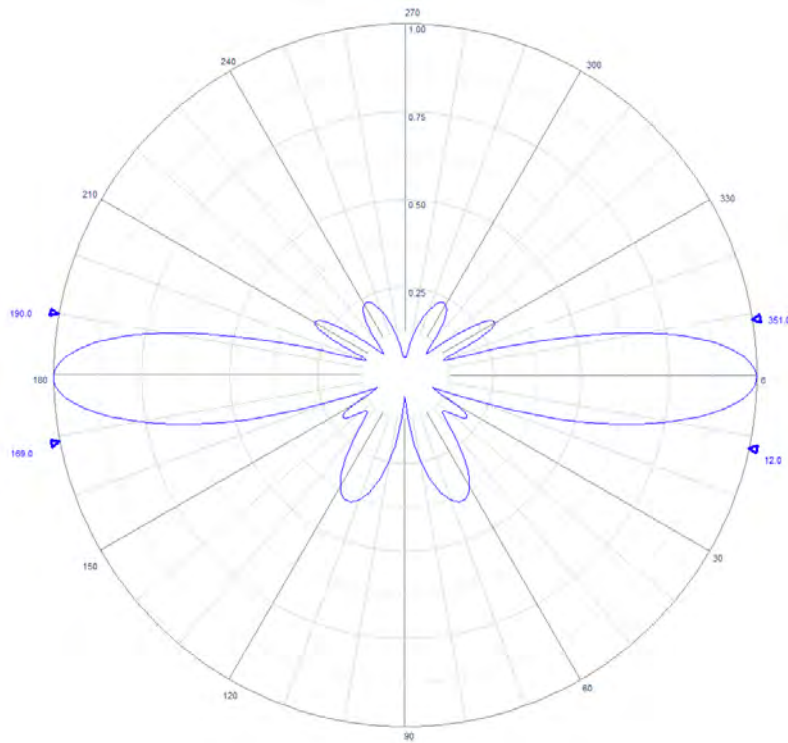
SG2400-RS



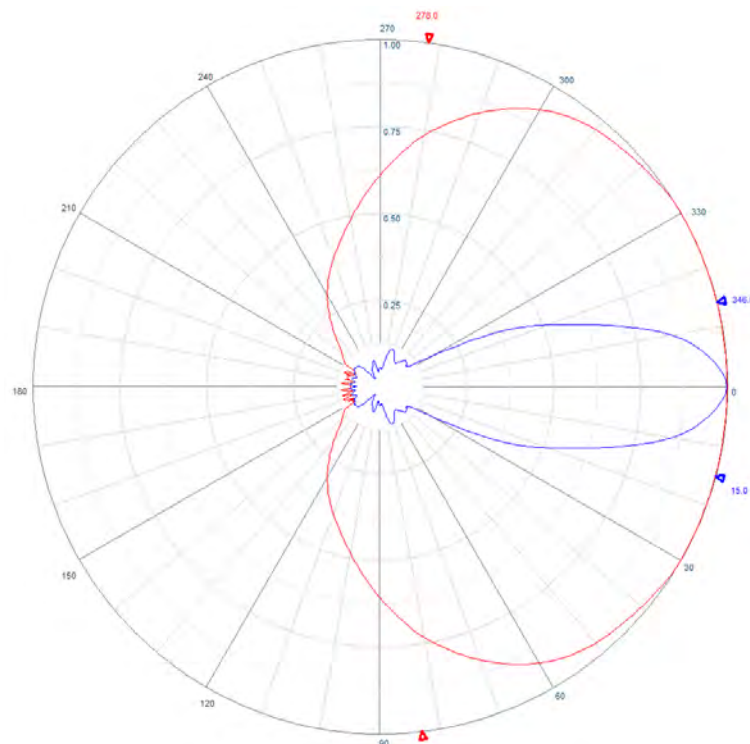
SG2400 series

Omni-directional stud, flange or directional rear screen collinear

ISM & WiFi/ WLAN 2.4-2.5 GHz



Example radiation pattern - SG2400-TPM



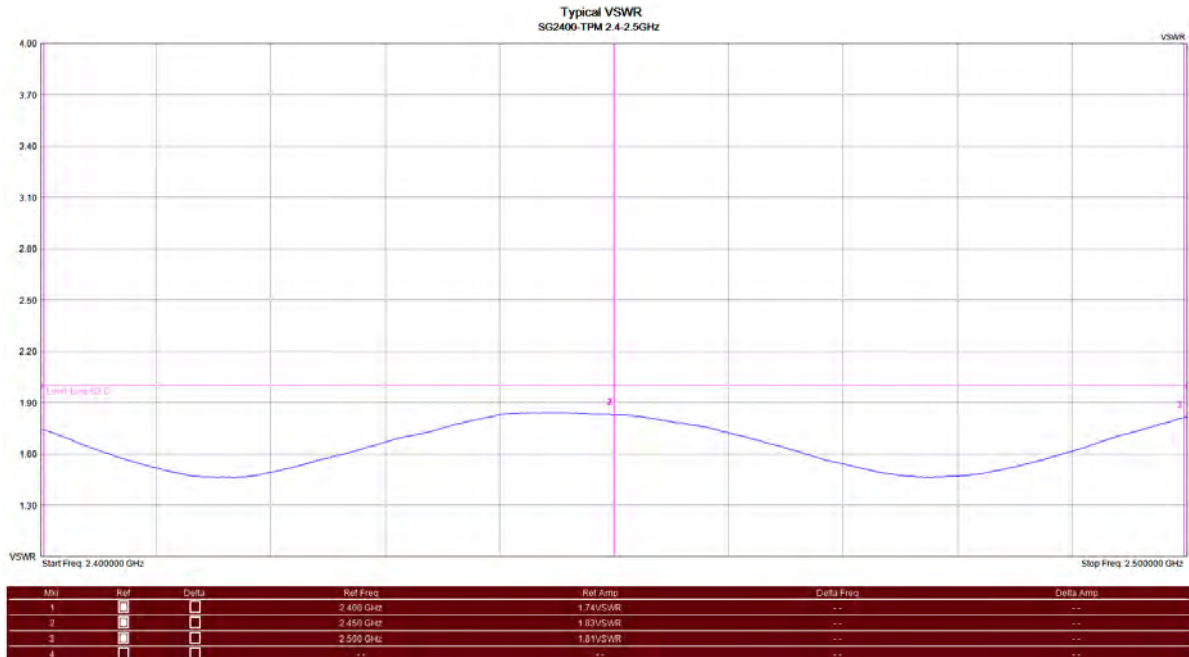
Example radiation pattern - SG2400-RS



SG2400 series

Omni-directional stud, flange or directional rear screen collinear

ISM & WiFi/ WLAN 2.4-2.5 GHz



Typical VSWR - SG2400-TPM

SG2400 series




Omni-directional stud, flange or directional rear screen collinear

ISM & WiFi/ WLAN 2.4-2.5 GHz

Recommended mounting hardware - SG2400-TPM ONLY

 <p>A-6211 - 304 stainless steel 'L' fascia mount bracket 16mm hole, 200mm offset Requires mounting screws/ bolts - not supplied</p>	 <p>GM1 - 304 stainless steel 'L' fascia mount bracket 16mm hole Requires mounting screws/ bolts - not supplied</p>
 <p>BBM series - wrap around bull bar mount, up to 50-76mm diameter bull bar tube 16mm mount hole Requires 10mm spanner</p>	 <p>MGB Powdercoated black internal magnet mount base 16mm hole 105mm diameter includes scratch reduction pad on base</p>
 <p>MRM-SS - 304 stainless steel clamp style mirror mount 16mm mount hole Requires 10mm spanner</p>	 <p>A-4266 series - mast mount adaptors, mount onto CFB series or A-2654-2 Requires 2 x EB1-SS or 1 x UB3-SS</p>
 <p>CFB series - galvanised steel 'J' style 'hockey stick' fascia mount brackets 1.1-2.7metres Requires A-4266 and EB1-SS or UB3-SS</p>	 <p>A-2654-2 - aluminium extension pole, 1.1metres tall, includes 2 x mounting U-bolts Requires A-4266 and EB1-SS or UB3-SS Requires 10mm spanner</p>

Typical alternate Connectors - SG2400-TPM or SG2400-R

 <p>FME female termination Suits mobile device or telemetry device. Also available in right-angle configuration or alternate gender</p>	 <p>N-type male termination Suits telemetry devices Also available in right-angle configuration or alternate gender</p>
 <p>Reverse polarity SMA male termination Suits telemetry devices</p>	



Z2400-8

Omni-directional mast mount high gain collinear

ISM & WiFi/WLAN 2.4-2.5 GHz



The Z2400-8 is an omni-directional mast mount collinear, designed for wireless data communications/WiFi or WLAN applications within the Industrial, Scientific and Medical ISM2.4 range.

Mounting hardware, coaxial feeder cable, water-proofing, bird proofing and other installation accessories are all available separately.

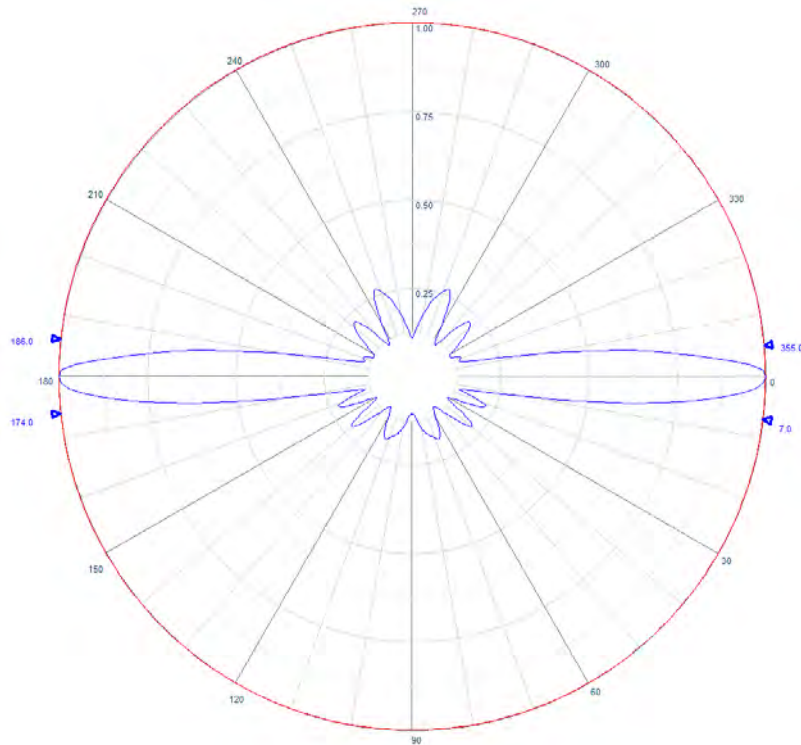
Construction	White fibreglass radome, 304 stainless steel mount section and tri-metal plated termination	
Frequency range	2.4-2.5 GHz - ISM & WiFi/WLAN compatible	
Bandwidth	Full frequency range stated - 100 MHz	
VSWR	Average: <1.5:1	Maximum: <1.8:1
Tuning	Factory	
Gain	10 dBi	
Impedance - nominal	50 Ohms	
Maximum power	50 Watts	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	360° omnidirectional	
E Plane	12°	
Connector	N-type female in base of mount section - no cable	
Height	850mm	
Weight	610grams	
Mount section	170mm x 25.4mm - 304 stainless steel	
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS Extension pole: CFB series or A-2654-2	
Mounting position recommended	Mount as high on your structure, mast or tower as possible using the appropriate mounting clamp/s	



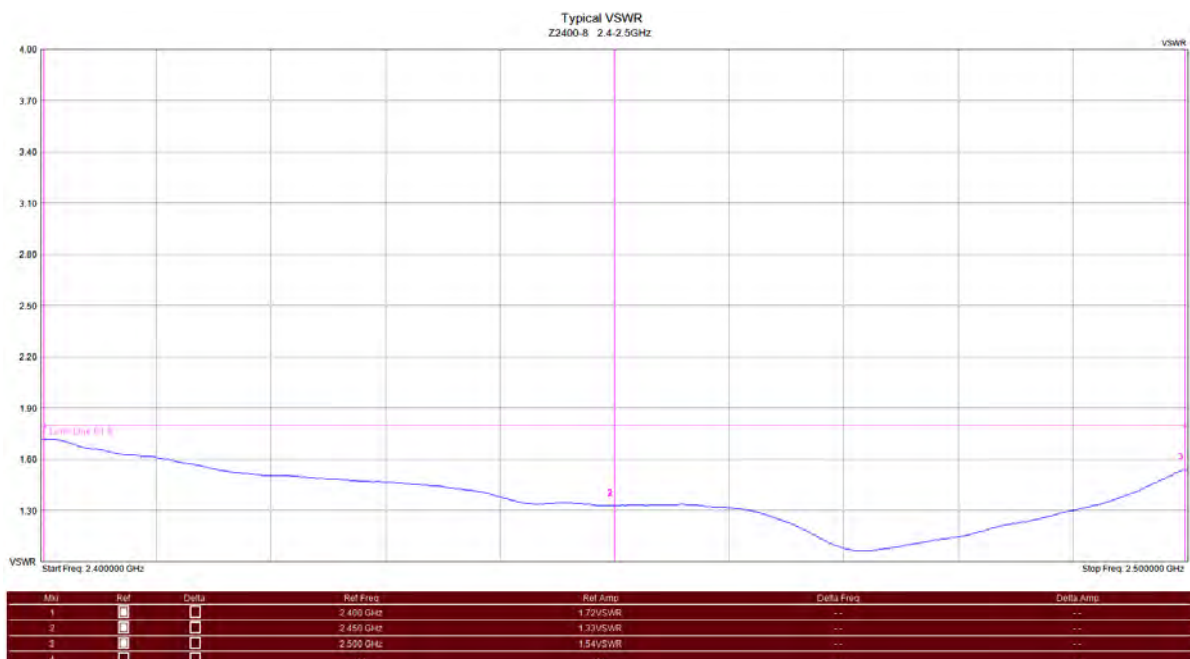
N-type female in base of mount section

Z2400-8

Omni-directional mast mount high gain collinear
ISM & WiFi/WLAN 2.4-2.5 GHz



Example radiation pattern









Typical VSWR

Z2400-8

Omni-directional mast mount high gain collinear

ISM & WiFi/WLAN 2.4-2.5 GHz

Recommended mounting hardware

 <p>EB1-SS - requires 2 304 stainless steel parallel clamp Boom: 20-40mm capability Mount pole: 25-45mm capability</p>	 <p>UB3-SS 304 stainless steel parallel clamp Boom: 20-32mm capability Mount pole: 20-50mm capability</p>
 <p>RB8 - requires 2 Galvanised steel right-angle clamp Boom: 20-40mm capability Mount pole: 20-40mm capability</p>	 <p>UB2-SS 304 stainless steel right- angle clamp Boom: 20-50mm capability Mount pole: 20-50mm capability</p>
 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres. Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets. Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>

Suitable feeder coaxial cable and connectors

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave) P/N 7890 Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor P/N 8226 Tri-metal plated</p>
 <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (™ times microwave) P/N 7890-3 Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU600 low loss, solid conductor P/N 8226-2 Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250 Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable P/N NM1250 Tri-metal plated</p>



Z2400-8RS

Directional rear screened high gain collinear

ISM & WiFi/WLAN 2.4-2.5 GHz



The Z2400-8RS is a mast mount collinear with a rear screen fitted, designed for directional wireless data link applications in the WiFi ISM 2.4-2.5GHz range.

The rear reflector screen restricts the radiation pattern emitted at the rear of the antenna, directing more of the signal in the forward direction.

Coaxial feeder cable, water-proofing, bird proofing and other installation accessories are all available separately.



Construction	White fibreglass radome, aluminium mount ferrules, aluminium rear reflector screen and external termination
Frequency range	2.4-2.5 GHz - ISM2.4, WiFi/WLAN & bluetooth compatible
Bandwidth	Full frequency range stated - 100 MHz
VSWR	<1.6:1
Tuning	Factory
Gain	13 dBi
Impedance - nominal	50 Ohms
Maximum power	50 Watts
DC grounding	Yes
Polarisation	Vertical
H Plane	17°
E Plane	170°
Front-to-back ratio	-20 dB
Connector	N-type female in base of mount section - no cable
Dimensions	Height: 850mm x Rear screen width: 150mm
Weight	1.25kg
Projected area	0.125m ²
Wind load at 160kph	15.173kg, 0.149kN
Mounting hardware supplied	2 x 30- 50mm capability U-bolts and 3 x welded mount fittings on back of rear screen
Mounting position recommended	Mount as high on your structure, mast or tower as possible using the U-Bolts and stand-offs supplied
Installation tools required	13mm spanners for U-bolt securing Amalgamation butyl rubber tape and PVC tape for sealing

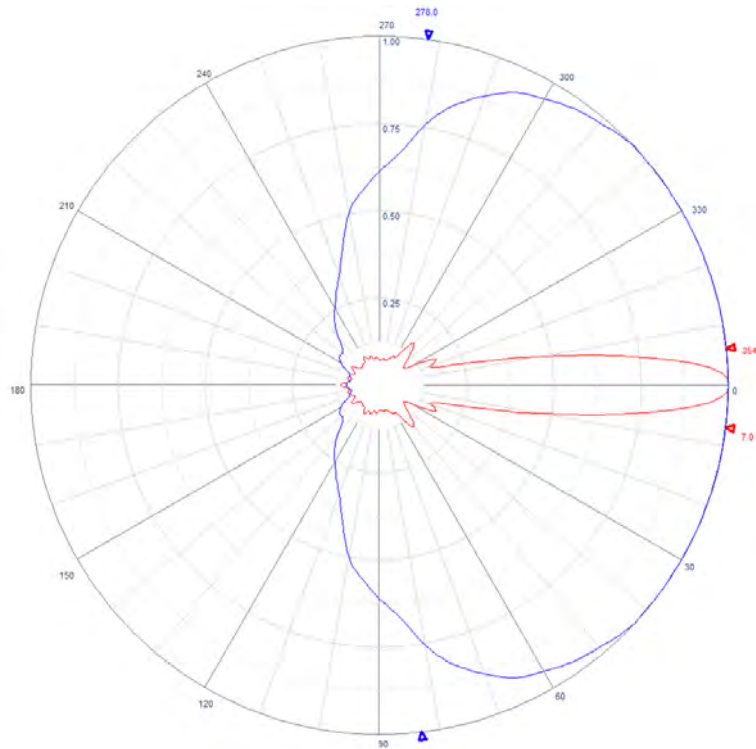


N-type female jack termination in base of antenna



Z2400-8RS

Directional rear screened high gain collinear
ISM & WiFi/WLAN 2.4-2.5 GHz



Example radiation pattern at 2.4GHz

Z2400-8RS

Directional rear screened high gain collinear

ISM & WiFi/WLAN 2.4-2.5 GHz

Suitable feeder coaxial cable and connectors

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave) P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor P/N 8226 Tri-metal plated</p>
 <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (™ times microwave) P/N 7890-3</p> <p>Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU600 low loss, solid conductor P/N 8226-2 Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable P/N NM1250SF Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable P/N NM1250 Tri-metal plated</p>



Z2500-8 & Z2600-8

Omni-directional high gain mast mount collinear

UHF 2.46-2.58 GHz or 2.62-2.68 GHz



The Z2500-8 and Z2600-8 are omni-directional mast mount collinears designed for wireless data communications within 2.46-2.58 GHz or 2.62-2.68 GHz.

Mounting hardware, coaxial feeder cable, water-proofing, bird proofing and other installation accessories are all available separately.



	Z2500-8	Z2600-8
Construction	White fibreglass radome and 304 stainless steel mount section with external termination	
Frequency range	2.46-2.58 GHz - UHF	2.62-2.68 GHz - UHF
Bandwidth	Full frequency range stated	
VSWR	<1.5:1	
Tuning	Factory	
Gain	10 dBi	
Impedance - nominal	50 Ohms	
Maximum power	50 Watts	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	360° omnidirectional	
E Plane	14°	
Connector	N-type female in base of mount section - as standard	
Height	820mm	810mm
Weight	600grams	590grams
Mount section	240mm x 25.4mm - 304 stainless steel	
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS	
Mounting position recommended	Mount as high on your structure, mast or tower as possible using the appropriate mounting clamp/s. Ensure the antenna is mounted away from any vertical metallic objects	



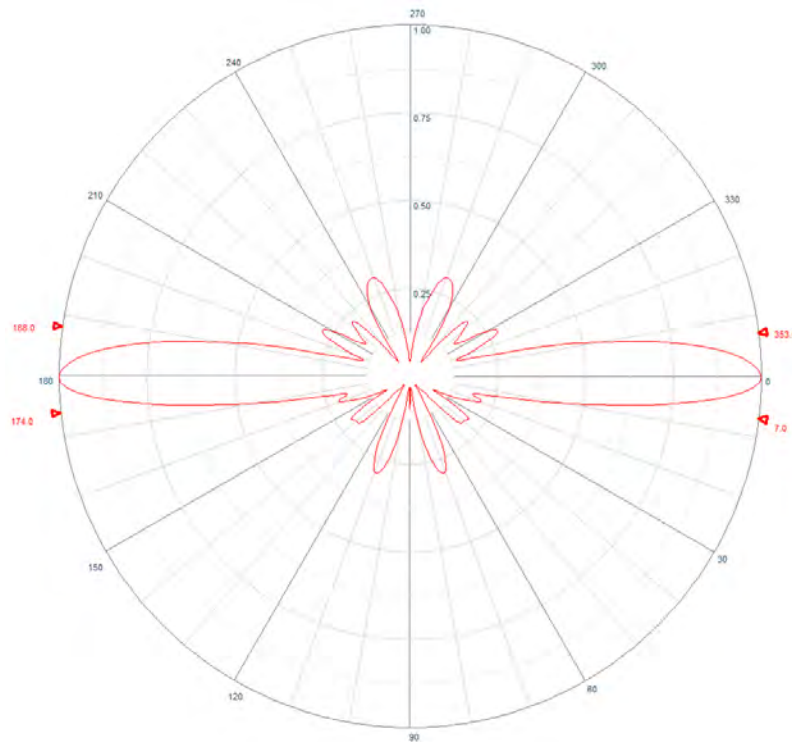
N-type female in base of mount section



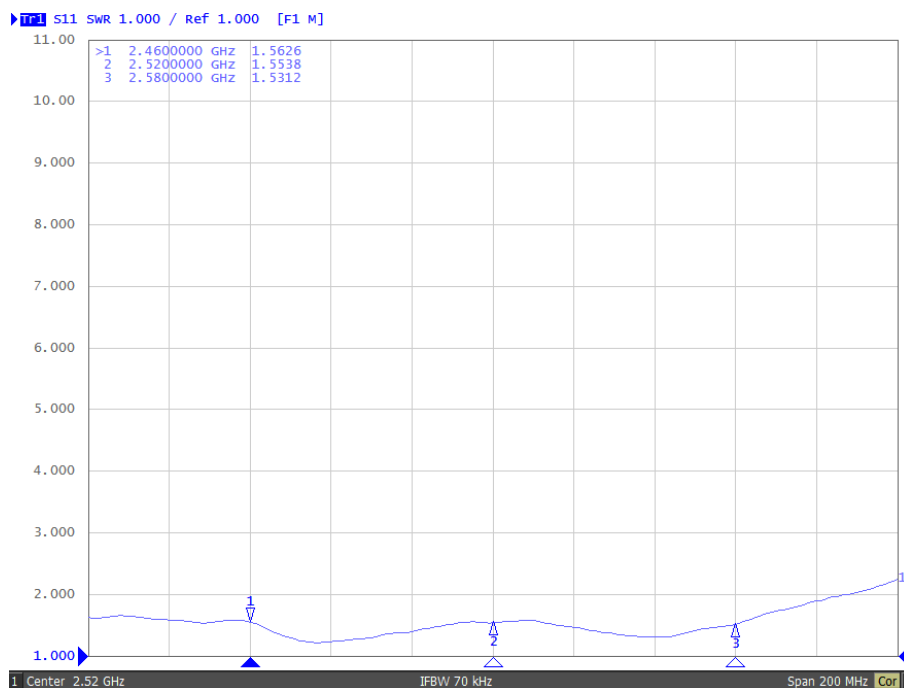
Z2500-8 & Z2600-8

Omni-directional high gain mast mount collinear

UHF 2.46-2.58 GHz or 2.62-2.68 GHz



Example radiation pattern - Z2500-8



Typical VSWR - Z2500-8

Z2500-8 & Z2600-8

Omni-directional high gain mast mount collinear

UHF 2.46-2.58 GHz or 2.62-2.68 GHz



CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS



A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.

Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS



SFB Series - galvanised steel pole extension 0.9-2.0 metres
Roof or overhang mounting

Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS



EB1-SS - requires 2
304 stainless steel parallel clamp
Boom: 20-40mm capability
Mount pole: 25-45mm capability



UB3-SS
304 stainless steel parallel clamp
Boom: 20-32mm capability
Mount pole: 20-50mm capability



RB8 - requires 2
Galvanised steel right-angle clamp
Boom: 20-40mm capability
Mount pole: 20-40mm capability



UB2-SS
304 stainless steel right-angle clamp
Boom: 20-50mm capability
Mount pole: 20-50mm capability

Suitable feeder coaxial cable and connectors



RU400 Solid copper conductor, low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(™ times microwave)

P/N 7890

Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU400 low loss, solid conductor

P/N 8226

Tri-metal plated



RU600 Solid copper conductor, low loss coaxial cable
LMR-600™ equivalent
(™ times microwave)

P/N 7890-3

Available in 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU600 low loss, solid conductor

P/N 8226-2

Tri-metal plated



Y2400 series

Point-to-point radome enclosed highly directional Yagi

ISM & WiFi/WLAN 2.4-2.5 GHz



These radome enclosed Yagi's are specifically designed for directional point-to-point WiFi/WLAN or ISM 2.4-2.5 GHz wireless data link transmit and receive applications.

The enclosed design ensures protection from damage or water ingress, increasing the service life of these antennas.

Coaxial feeder cable, water-proofing, bird proofing, adaptors and other installation accessories are all available separately.



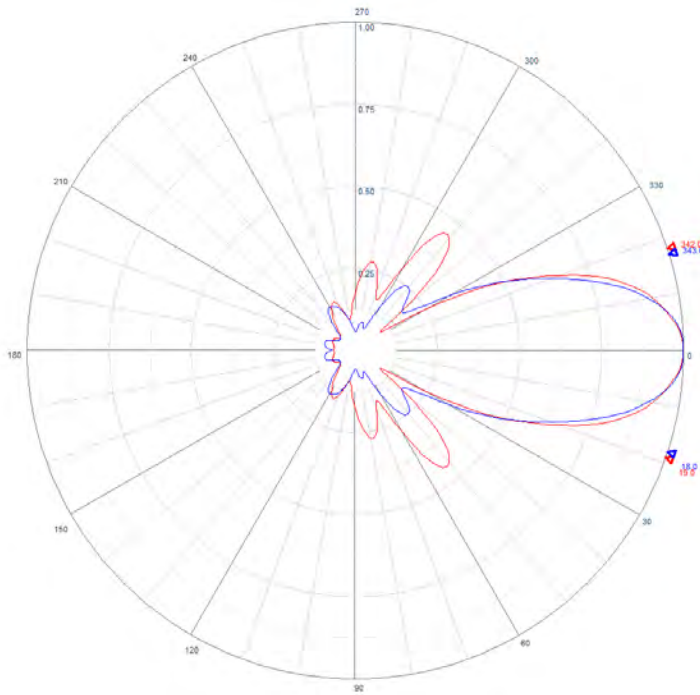
	Y2400-9	Y2400-18
Construction	White or Black fibreglass parallel radome, aluminium mount plate and external coaxial cable and termination	
Frequency range	2.4-2.5 GHz - UHF, ISM & WiFi/WLAN compatible	
VSWR	<1.5:1	
Tuning	Factory	
Number of elements	9	18
Gain	11.3 dBi	17.8 dBi
Maximum power	25 Watts	
Impedance	50 Ohms	
Polarisation	Mount horizontal or vertical as required	
H Plane	36°	23°
E Plane	43°	26°
Front-to-back ratio	-20 dB	
DC grounding	Yes	
Cable	200mm RG58 low loss - rear exit from mount plate	
Connector	N-type female fitted to cable as standard, or specify requirements	
Dimensions	300mm x 80mm	700mm x 80mm
Weight	1.5kg	2.0kg
Projected area	0.015m	0.035m
Wind load at 160kph	1.82kg	4.26kg
Mounting hardware supplied	Aluminium mount plate, 2 x galvanised steel V-blocks and 2 x 50mm diameter galvanised steel U-bolts	
Installation tools required	13mm spanner for U-bolt securing	



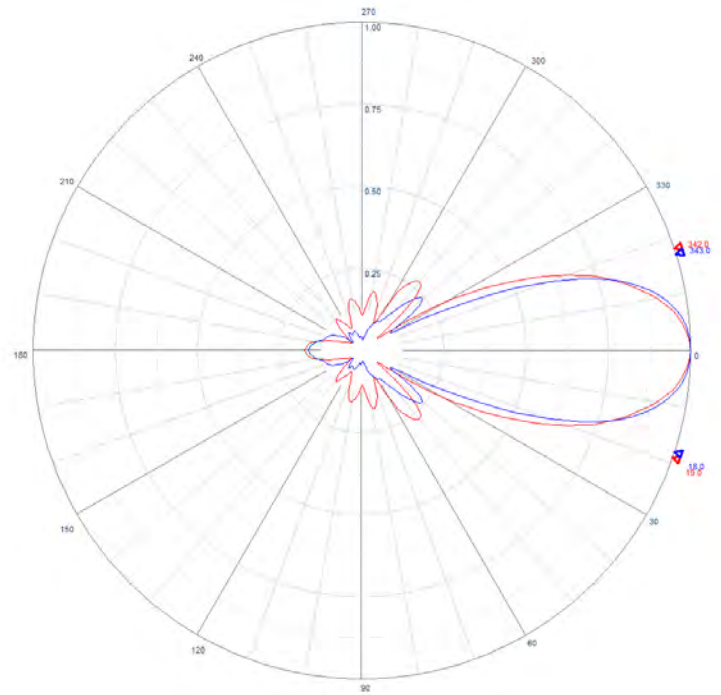
Y2400 series

Point-to-point radome enclosed highly directional Yagi

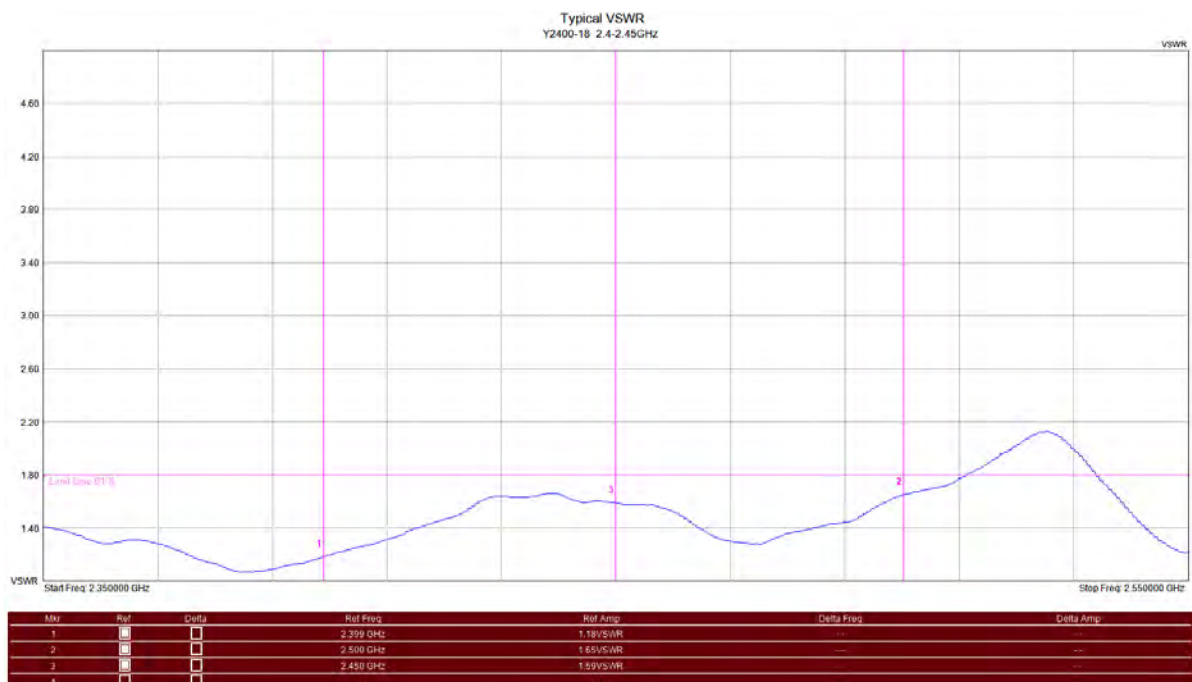
ISM & WiFi/WLAN 2.4-2.5 GHz



Example radiation pattern - Y2400-9



Example radiation pattern - Y2400-18



Typical VSWR - Y2400-18

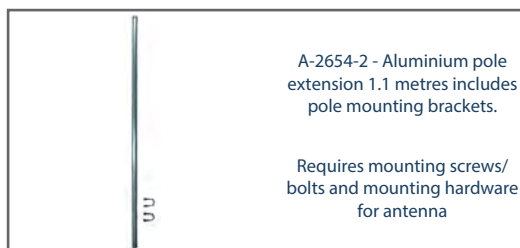
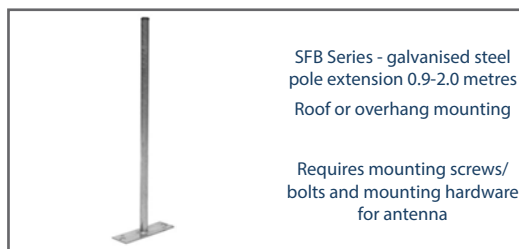
Y2400 series

Point-to-point radome enclosed highly directional Yagi

ISM & WiFi/WLAN 2.4-2.5 GHz



Suitable mounting hardware

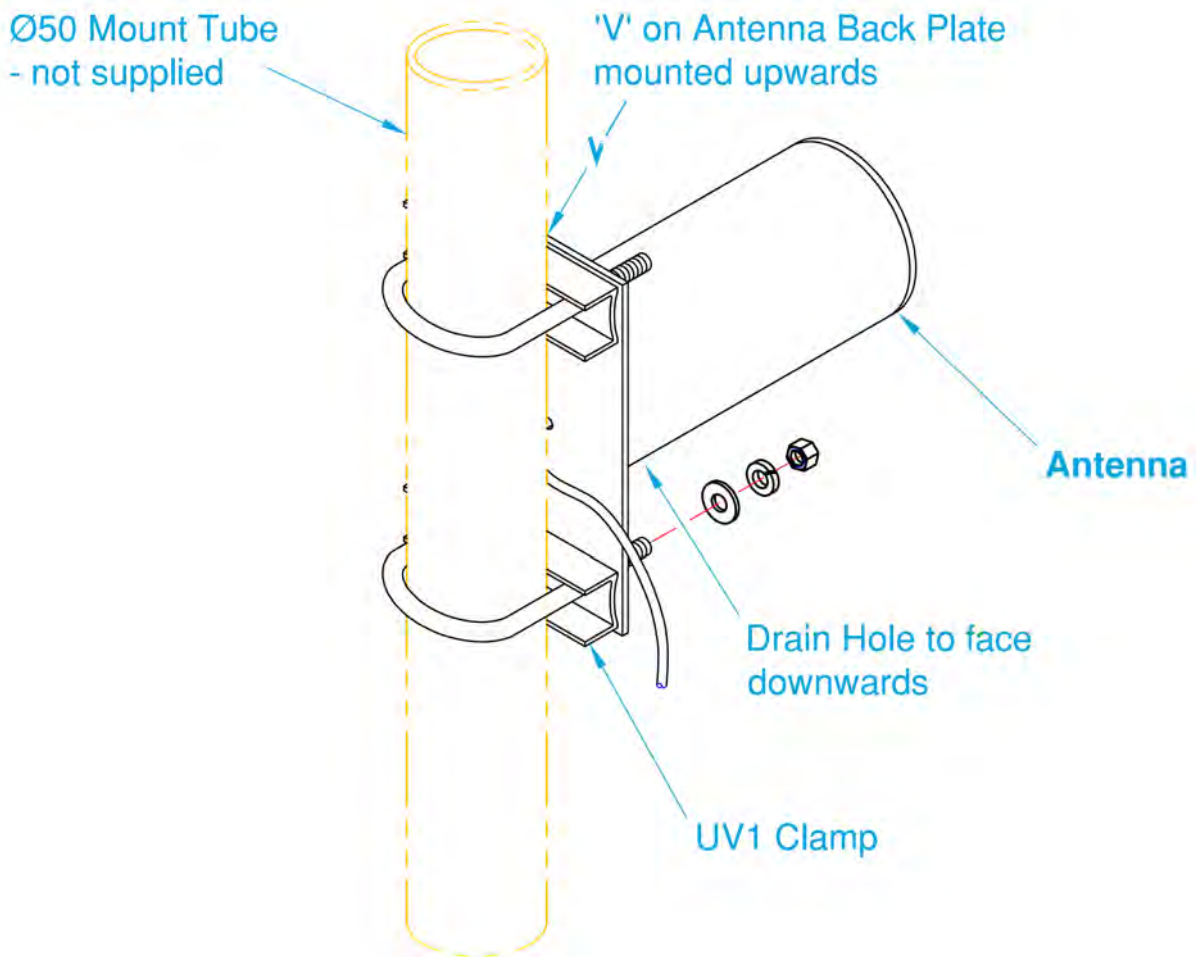


Suitable feeder coaxial cable and connectors



Y2400 series

Point-to-point radome enclosed highly directional Yagi
ISM & WiFi/WLAN 2.4-2.5 GHz



Vertical Polarisation:



WH series

Interior low profile data link whip

ISM 2.4 & WiFi/WLAN 2.4 GHz or ISM5.8 & WiFi/WLAN 5.8 GHz



The WH series are specifically designed for internal use on low power data link devices operating in the WiFi/WLAN Industrial, Scientific and Medical ISM2.4 or ISM5.8 range.

The WH series suit any device with a protruding SMA female connector. The small profile of this antenna allows for it to covertly be installed with minimal visual impact.

Coaxial feeder cable, adaptors and other installation accessories are all available separately.



	WH2400-2	WH2400-3	WH5800-2-R
Construction	Black UV resistant PVC and brass		
Frequency range	ISM2.4/WiFi/WLAN 2.4 GHz	WiFi/WLAN 2.4835 GHz	ISM5.8/WiFi/WLAN 5.8 GHz
VSWR	<1.5:1		
Tuning	Factory		
Gain	2.1 dBi		
Polarisation	Vertical		
Maximum power	5 Watts		
Impedance - nominal	50 Ohms		
H Plane	360° omnidirectional		
Connector	SMA male plug, gold plated as base		
Height	70mm	85mm	73mm
Weight	9grams	15grams	4grams
Mounting	Onto any device or cable with SMA female termination		
Mounting position recommended	Mount as high on your device or hand-held device as possible, if mounting inside structure ensure no metallic obstructions impede signal path.		



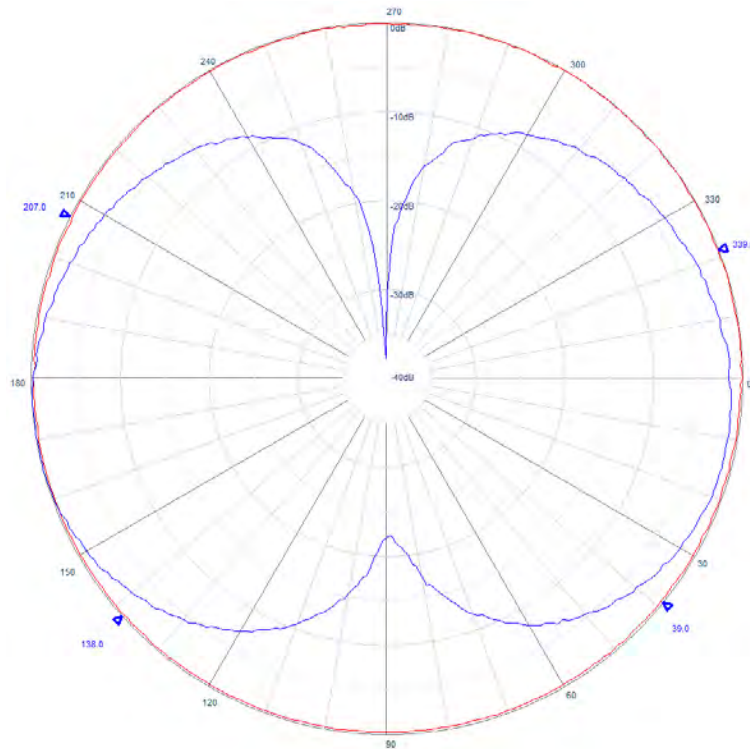
SMA male termination as base of whip



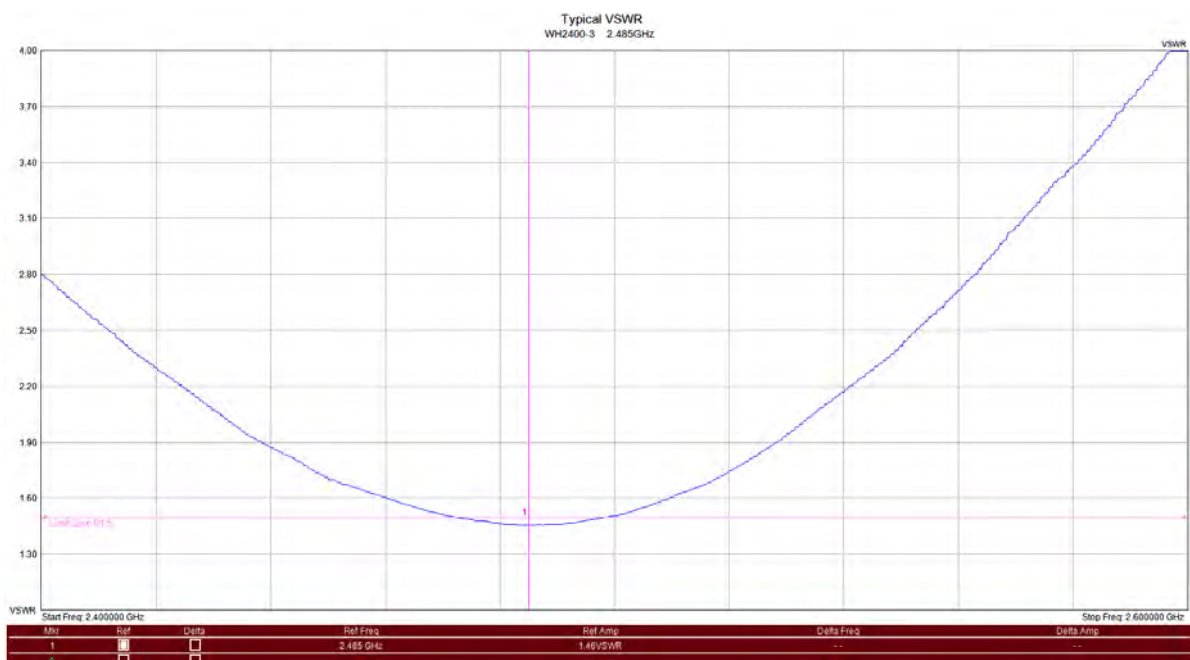
WH series

Interior low profile data link whip

ISM 2.4 & WiFi/WLAN 2.4 GHz or ISM5.8 & WiFi/WLAN 5.8 GHz



Example radiation pattern



Typical VSWR - WH2400-3 at 2.485GHz

ZYUE-WX-2400D

Straight SMA terminated UHF Whip

UHF 2300-2700 MHz



The ZYUE-WX-2400D whip is a straight vertical SMA male terminated whip. Suitable in locations where a low profile and highly flexible construction are required, such as locations where contact with the antenna is highly possible.

Adaptors, patch leads, water proofing and other installation accessories are all available separately.

Construction	Black moulded whip and embedded internal termination
Frequency range	2300-2700 MHz - UHF
Bandwidth	Full frequency range stated - 400 MHz
VSWR	<1.5:1
Tuning	Factory
Gain	3 dBi
Impedance	50 Ohms
Maximum power	50 Watts
Connector	SMA male plug connector as base
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
Dimensions	100mm
Mounting	Mount onto any SMA female terminated device, base or cable termination
Mounting position recommended	As high as possible, ensure no metallic obstructions inhibit the signal direction, this will lead to reduced performance.



ZYUE-WX-2400 series

90 degree swivel whip

ISM2.4/WiFi/WLAN 2.4 - 2.5 GHz


In-stock
Ready to
Ship
* Signifies build to
order item



The ZYUE-WX-2400 series of whips have the added ability to be either set straight, or on a 90 degree bend for those space saving requirements.

The ZYUE-WX-2400F and ZYUE-WX-2400F-RPSMA are both designed for WiFi use using the ISM2.4 frequency range.

Adaptors, patch leads, water proofing and other installation accessories are all available separately.

	ZYUE-WX-2400F	ZYUE-WX-2400F-RPSMA*
Construction	Black moulded whip, 90 degree swivel chrome connector	
Frequency range	2.4-2.5 GHz - WiFi/WLAN and ISM2.4 compatible	
Bandwidth	Full frequency range stated - 100 MHz	
VSWR	<2.0:1	
Tuning	Factory	
Gain	5.5 dBi	
Impedance	50 Ohms	
Maximum power	50 Watts	
Connector	SMA male plug connector as base	Reverse polarisation SMA male plug connector as base
Polarisation	Vertical, or 90° vertical to your equipment	
H Plane	360° omnidirectional	
Height	220mm	
Weight	26grams	
Mounting	SMA male plug fits to any SMA female jack terminated device.	Reverse SMA male plug fits to any reverse SMA female jack termination device
Mounting position recommended	Mount as high on your structure as possible. If using on a hand-held device, ensure device is not enclosed within metallic material or within a metallic lined structure.	



SMA male termination in ZYUE-WX-2400F



GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

Page 1 of 5



The GCRFA low profile all-in-one antenna will improve mobile phone/ wireless data, L1 GPS and WiFi/WLAN reception, including 4G LTE and dualband 4G/3G.

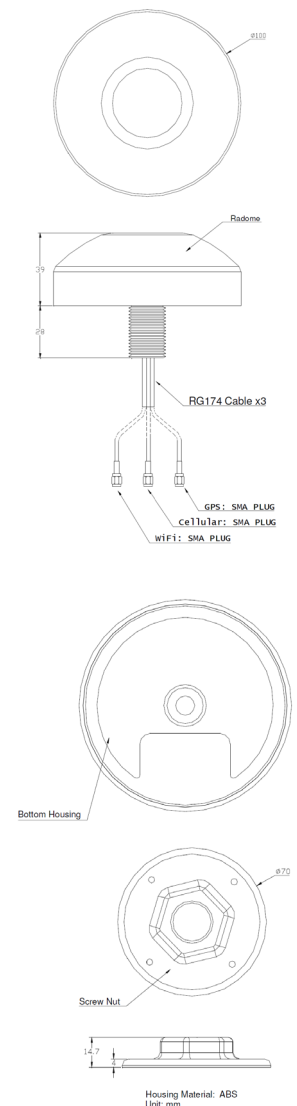
The GCRFA is suitable for mobile or fixed position installations for all environments, with the internal enclosed inside a robust ABS enclosure.

Mounting hardware, adaptors and other installation accessories are all available separately.



Construction	White ABS polycarbonate enclosure,		
Mobile phone coverage	698-800 MHz, 824-960 MHz & 1710-2170 MHz - 4G LTE, 4G/3G		
GPS frequency	1575.42 MHz - L1 GPS		
WiFi ability	2.4-2.5 GHz & 4.7-5.9 GHz - WiFi/WLAN		
Tuning	Factory		
VSWR	Cellular: 3.0:1	L1 GPS: 1.5:1	WiFi 2.4: 2.0:1 WiFi 5.8: 3.0:1
Impedance	50 Ohms		
H Plane	360° omnidirectional		
Weight	280grams		
Dimensions	Diameter: 100mm, Height: 39mm, Thread length: 28mm		
Cable	3 x 5 metre RG174/U		
Connector - fitted	3 x SMA male or specify		
Mounting requirements	Any bracket or flat surface with 20mm hole using cream ABS nut and attached rubber gasket supplied		
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 20mm hole or bracket with 20mm hole.		
Alternate models	GCRFA-10 - GCRFA with 10m cable lengths , specify terminations GCRFA-GP - GCRFA with 102mm diameter ground plane for non metallic mounting such as fibreglass or plastic.		
Installation tools required	20mm spanner for nut securing		
RoHS compliant	Yes		
Waterproof rating	IP56		

[Detailed specifications on next page...](#)





GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

Page 2 of 5



GPS active patch antenna

Frequency coverage	L1 GPS 1575.42 MHz \pm 3 MHz				
VSWR	1.5:1 - maximum				
Bandwidth	20 MHz min. at -10dB				
Gain coverage	-4dBic at -90°C 90°(over 75% volume)				
Polarisation	Right-hand circular polarised - RHCP				
Amplifier module	Amplifier gain without cable	Noise Figure	Output VSWR	DC voltage	DC current
	27dB - typical	1.8dB - typical	2.0:1 - maximum	DC 2.7V to 6.0V	8.5 \pm 4.5mA

LTE, 4G/3G Cellular module

Frequency		696-800 MHz	824-960 MHz	1710-1990 MHz	1990-2170 MHz
VSWR - maximum		3.0:1	3.0:1	3.0:1	3.0:1
Average gain	With GP*	-1.5 dBi	-2.33 dBi	-1.86 dBi	-1.52 dBi
	Without GP	-2.15 dBi	-3.33 dBi	-2.75 dBi	-2.07 dBi
Average Efficiency	With GP*	71.07%	61.60%	65.36%	70.87%
	Without GP	61.36%	48.47%	53.23%	62.58%
Peak gain	With GP*	3.79 dBi	4.11 dBi	4.94 dBi	5.91 dBi
	Without GP	3.74 dBi	3.61 dBi	2.34 dBi	4.21 dBi

WiFi module

Frequency		2.4-2.5 GHz	4.7-5.0 GHz	5.0-5.4 GHz	5.4-5.9 GHz
VSWR		2.4-2.5 GHz - 2.0:1		4.7-5.9 GHz - 3.0:1	
Impedance		50 Ohms			
Polarisation		Omnidirectional - Linear			
Power handling		25 Watts			
Average gain	With GP*	-2.15 dBi	-4.63 dBi	-3.76 dBi	-3.34 dBi
	Without GP	-2.70 dBi	-5.16 dBi	-4.31 dBi	-3.71 dBi
Average Efficiency	With GP*	61.07%	35.27%	42.87%	47.69%
	Without GP	53.88%	31.13%	37.53%	43.67%
Peak gain	With GP*	2.49 dBi	6.31 dBi	6.28 dBi	6.38 dBi
	Without GP	1.19 dBi	5.63 dBi	5.79 dBi	6.22 dBi

GP = Ground Plane
* ground plane dimensions 400mm x 400mm

Improved
Product

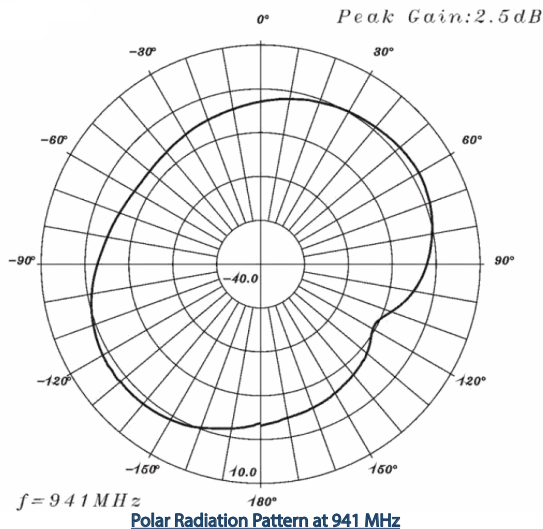
GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

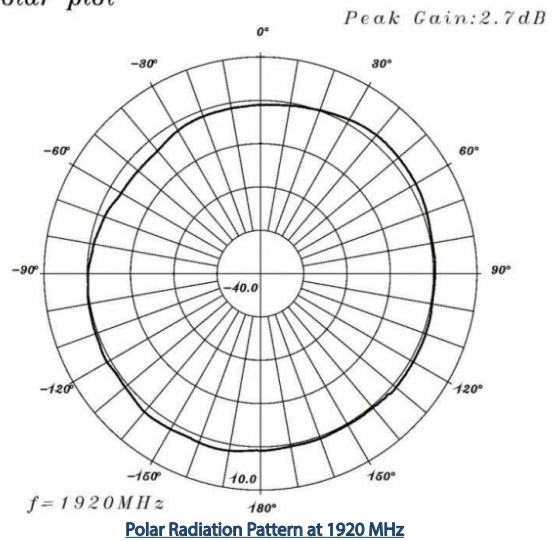
Page 3 of 5

 In-stock
Ready to
Ship

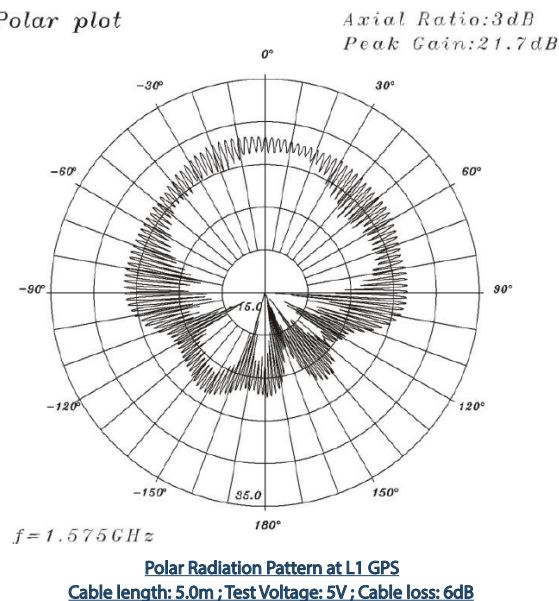
Polar plot



Polar plot



Polar plot



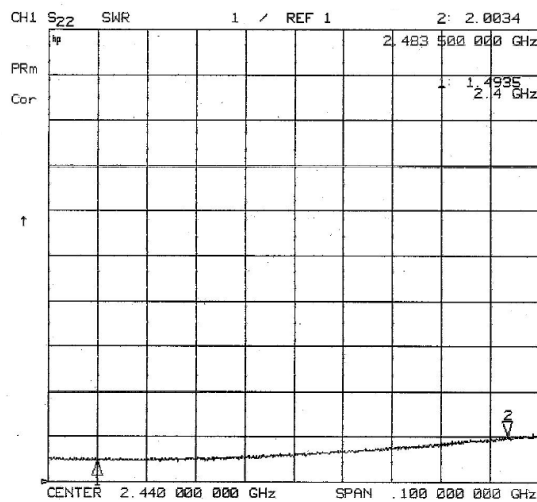
Improved
Product

GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

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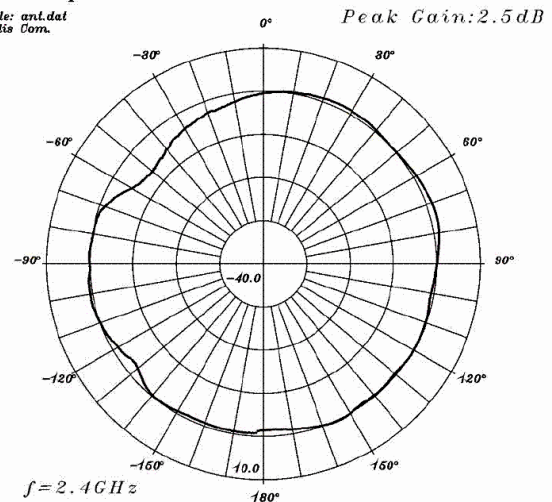
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Ready to
Ship



VSWR plot and Polar Radiation Pattern at 2.4 - 2.4835 GHz

Polar plot

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Improved
Product

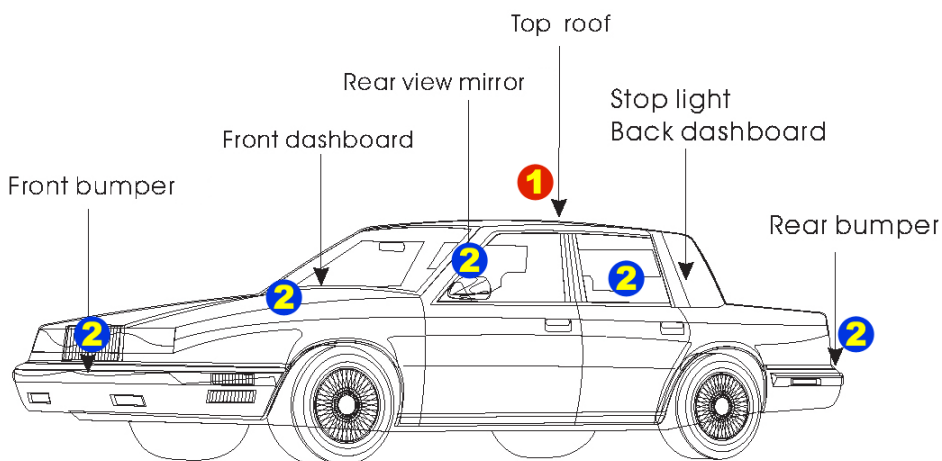
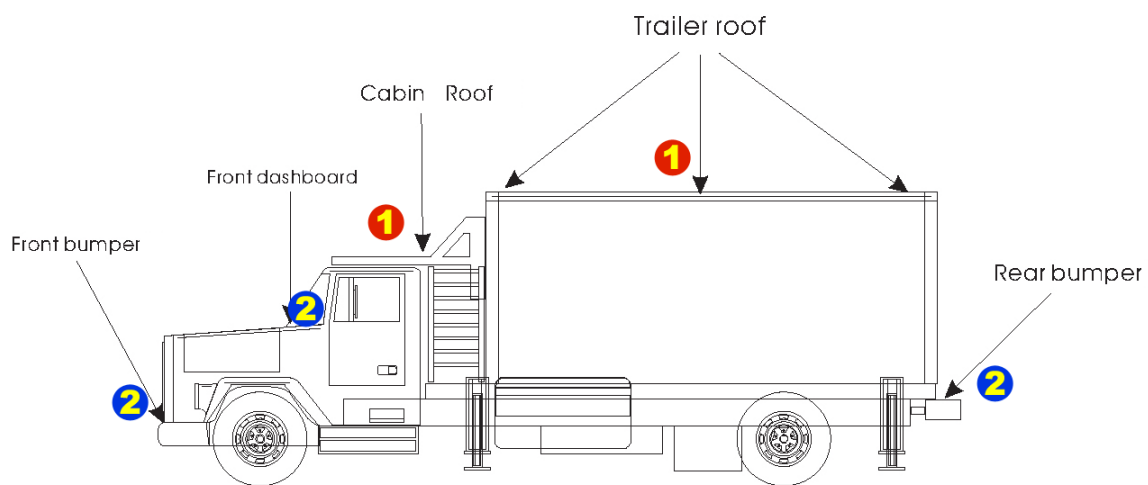
GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

Page 5 of 5


In-stock
Ready to
Ship

1 indicates an ideal location for best omnidirectional performance



ZAW-WiFi-4S

Broadband Low profile 'Hockey Puck' antenna

ISM & WiFi/WLAN 2.4-2.5 GHz



The ZAW-WiFi-4S is designed and manufactured for WiFi or ISM2.4 communications all within a low profile radome.

The ZAW-WiFi-4S incorporates an internal PCB design to achieve a low profile. Suitable for portable ATM's or meter boxes or any situation where a low profile is required.

Adaptors, connectors, patch leads and other installation accessories are all available separately.



Construction	Black ABS radome, adhesive base and cable assembly
Frequency range	2.4-2.5 GHz - ISM & WiFi/WLAN compatible
Bandwidth	Full frequency range stated - 100 MHz
Peak Gain	0 dBi
Polarisation	Linear
VSWR	<2.0:1 across bandwidth
Impedance	50 Ohm
Power supply	Power handling capacity: 10 Watts
Connector	Fakra pastel green 6019 type fitted as standard or specify requirements
Cable	3.0m RG174A/U side exit from radome
Dimensions	Diameter: 64.5mm, Height: 15mm
Weight	80grams
Operating temperature	-40°C to +85°C
Storage temperature	-45°C to +90°C
Mounting hardware supplied	Remove the adhesion cover from the base and adhere the antenna where required.
Mounting position recommended	Mount the antenna a high on your vehicle, caravan or structure as possible to achieve stated performance levels

FAKRA Type N Pastel green fitted as standard or specify requirements

ZCG-EEH-201

Broadband fixed cable low profile antenna
Dualband WiFi/WLAN 2.4-2.485 GHz & 5.15-5.85 GHz



The ZCG-EEH-201 fixed cable low profile antenna will improve WiFi coverage reception and transmission range. Being an enclosed unit, the internals are weatherproofed to IP67 ratings to ensure a long service life.

Unique specifications for the ZCG-EEH-201 are:

- WiFi data communication
- Dual band at both 2.4 and 5.8 GHz
- Rugged and waterproof design
- Ground independent

Adaptors, coaxial cable, connectors and other installation accessories are all available separately.



Construction	Black ASA radome, chrome fittings and cable assembly
Frequency range	2.4-2.485 GHz and 5.15-5.85 GHz IEEE.802.11b/g/n/ WiFi/WLAN, Bluetooth, ISM2.4 & ISM5.8
Bandwidth	Full frequency ranges stated
VSWR	<2.0:1
Tuning	Factory
Gain	2.4 GHz: 4.0 dBi - peak 5.85 GHz: 0.97 dBi - peak
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Linear, Vertical
Cable	3m x RG58 bottom exit - or specify length requirements
Connector	No connector fitted as standard, specify when ordering
Operating temperature	-40°C to +80°C
Storage temperature	-40°C to +85°C
Dimensions	Diameter: 41.5mm, Height: 78.4mm
Weight	85grams
Mounting hardware	10.5mm mounting thread, rubber gasket, washer and nut supplied
Installation tools required	19mm spanner for nut securing
Rating	IP67 / RoHS compliant



Cable exits through mounting thread



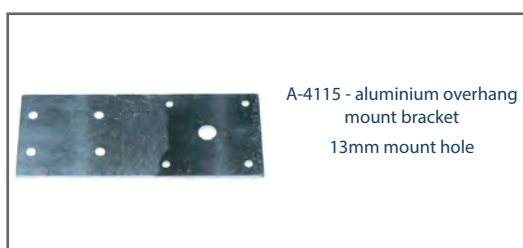
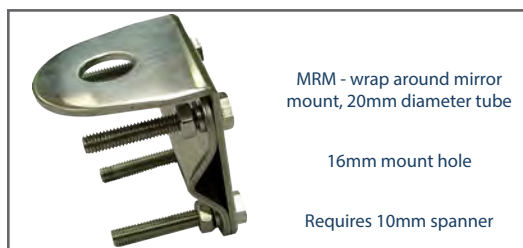
Rubber gasket and mounting hardware supplied

ZCG-EEH-201

Broadband fixed cable low profile antenna
Dualband WiFi/WLAN 2.4-2.485 GHz & 5.15-5.85 GHz



Recommended installation accessories



Typical connectors/terminations



ZRPM

Road embedded low profile data antenna

ISM 915 MHz and ISM/WiFi 2.4 GHz

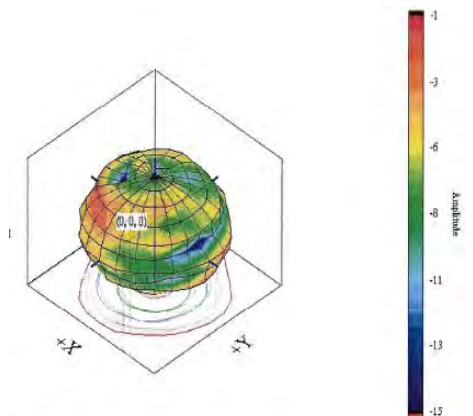
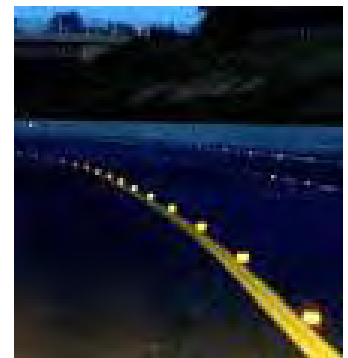


The ZRPM is a raised pavement marker data antenna. Currently in use for data collection from highway monitoring equipment. It is designed and manufactured to ensure long term survival and will deliver reliable performance, low profile and vandal resistant.

These antenna's perform at high efficiencies in a small package. Designed to be mounted directly onto the road pavement, just like a standard road marker.

These antennas have been potted with the same epoxy that secures the road marker to the road surface. No air gaps inside the road marker to maintain the mechanical integrity.

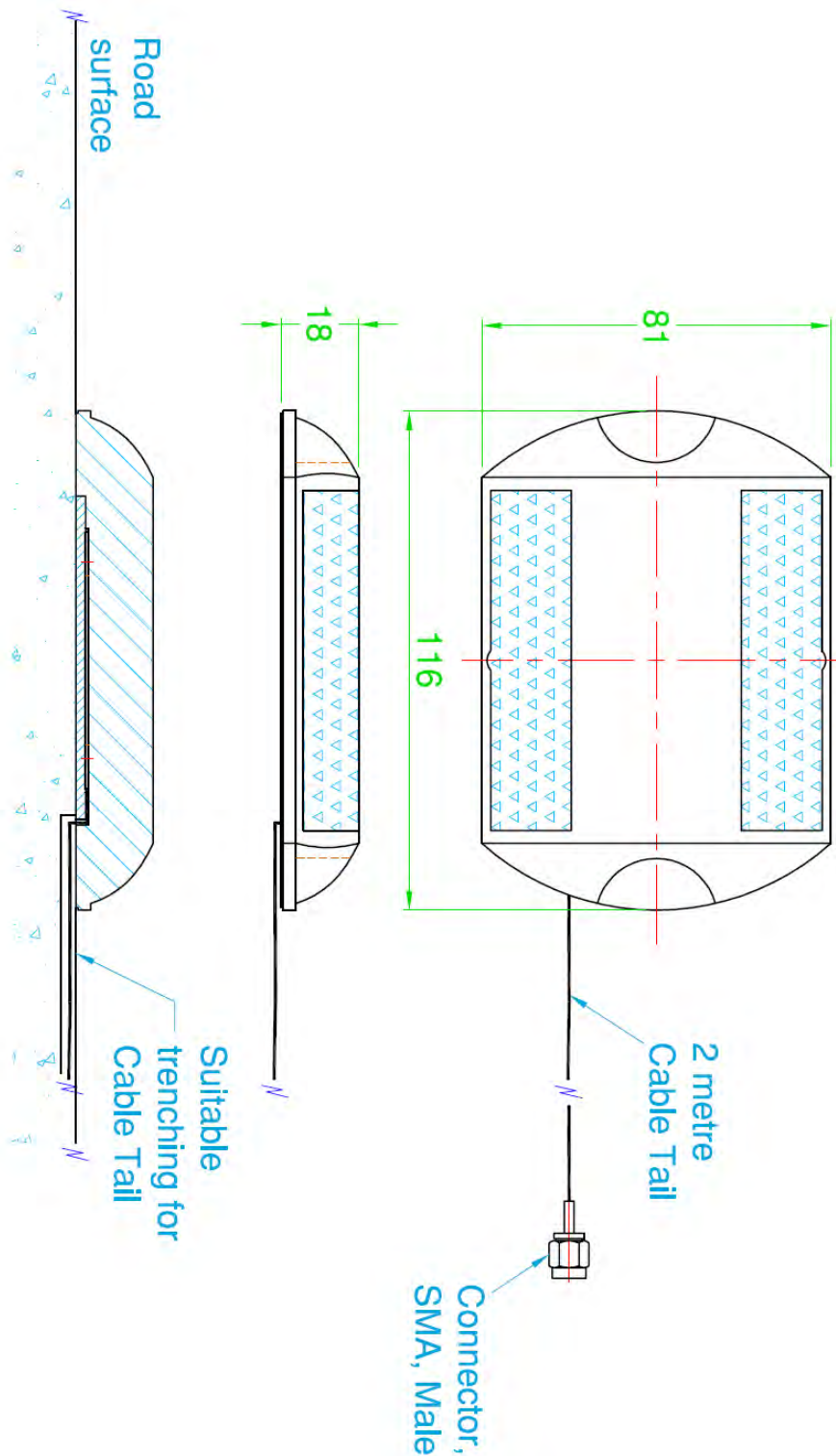
Colours available	Red, white or yellow - or specify requirements
Construction	High impact PVC , FR4 PCB,
Frequency range	915 MHz - ISM, IoT and LoRa compatible and 2.4 GHz - WiFi/WLAN
Tuning	Factory
Gain	3 dBd
Maximum power	10 Watts
Impedance - nominal	50 Ohms
DC grounding	Yes
Polarisation	Vertical
Connector	SMA male fitted as standard - or specify requirements
Cable	2.0 metres H100 side exits from PVC or specify length requirements
Height	18mm
Weight	250grams
Installation requirements	4mm x 4mm trench for coaxial cable clearance



ZRPM

Road embedded low profile data antenna

ISM 915 MHz and ISM/WiFi 2.4 GHz



ZCG-MIMO-6

Multiple In, Multiple Out 6-port Dome Collinear
Dualband WiFi/WLAN 2.4-2.5 GHz & 5.15-5.85 GHz


In-stock
Ready to
Ship

The ZCG-MIMO-6 6-port radome enclosed multiple in, multiple out (M.I.M.O) collinear will improve WiFi/WLAN range in external or internal locations.

Unique specifications for the ZCG-MIMO-6 are:

- Dual band at both 2.4 and 5.8GHz
- 6-port terminations - 3 for 2.4GHz and 3 for 5.8GHz
- Ground independent
- Supplied, attached mounting hardware

Adaptors, coaxial cable, connectors and other installation accessories are all available separately.



6 port N-type females in base of antenna

Construction	White radome, chrome terminations and anodised aluminium mounting hardware
Frequency range	2.4-2.485 GHz and 5.15-5.85 GHz - ISM & WiFi/WLAN - M.I.M.O.
Bandwidth	Full frequency ranges stated
VSWR	<1.8:1
Tuning	Factory
Gain	7dBi peak
Maximum power	100 Watts per port
Impedance	50 Ohms
Polarisation	Linear, Vertical
Connector	6 x N-type females, 3 per frequency range - M.I.M.O.
Operating temperature	-40°C to +80°C
Storage temperature	-40°C to +85°C
Dimensions	Height: 340mm, Diameter: 150mm - excl. mounting
Weight	1.3kg
Mounting hardware supplied	120mm stand-off mounting bracket with 2 x 50mm capable U-bolts and V-blocks at base of antenna
Mounting positions recommended	Mount as high on your tower, structure or pole as possible to ensure
Installation tools required	Phillips head/star screw driver for bracket to antenna securing 13mm spanner for U-bolt bracket securing

ZCG-MIMO-6

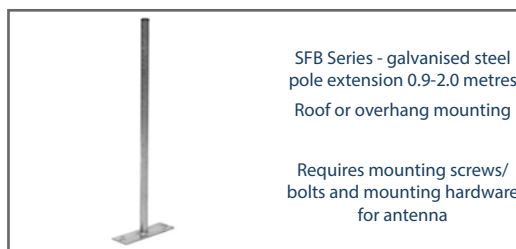
Multiple In, Multiple Out 6-port Dome Collinear
Dualband WiFi/WLAN 2.4-2.5 GHz & 5.15-5.85 GHz


In-stock
Ready to
Ship



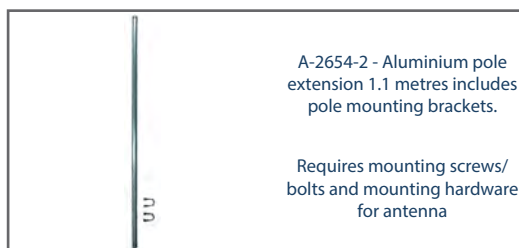
CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires mounting screws/ bolts and mounting hardware for antenna



SFB Series - galvanised steel pole extension 0.9-2.0 metres
 Roof or overhang mounting

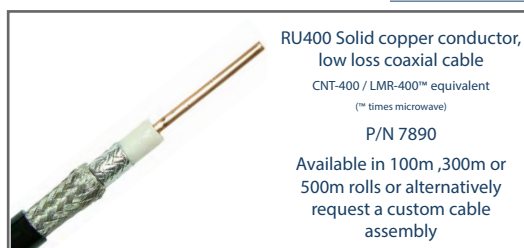
Requires mounting screws/ bolts and mounting hardware for antenna



A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.

Requires mounting screws/ bolts and mounting hardware for antenna

Suitable feeder coaxial cable and connectors



RU400 Solid copper conductor, low loss coaxial cable
 CNT-400 / LMR-400™ equivalent
 (™ times microwave)

P/N 7890

Available in 100m, 300m or 500m rolls or alternatively request a custom cable assembly



N-type male crimp connector for RU400 low loss, solid conductor

P/N 8226

Tri-metal plated



RU600 Solid copper conductor, low loss coaxial cable
 LMR-600™ equivalent
 (™ times microwave)

P/N 7890-3

Available in 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU600 low loss, solid conductor

P/N 8226-2

Tri-metal plated



1/2" super flexible helical shielded, foam dielectric coaxial cable

P/N ZCG1250SF

Available in per metre, or 500m rolls or alternatively request a custom cable assembly



N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable

P/N NM1250SF

Tri-metal plated



1/2" corrugated shielding, foam dielectric coaxial cable
 P/N ZCG1250

Available in per metre, or 500m rolls or alternatively request a custom cable assembly



N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable

P/N NM1250

Tri-metal plated

WiFi M.I.M.O Panels

Multiple In, Multiple Out broadband panel

WiFi/WLAN 2.3-2.7 GHz



These WiFi panels were designed for Multiple In, Multiple Out (M.I.M.O) wireless data applications within the 2.3-2.7 GHz frequency range. The low profile design allows for reduced space requirements.

Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.



	ZMP-1724-DP	ZMP-1924-DP	ZMP-1924F-DP
Construction	UV protected ABS radome, aluminium reflector plate and chrome termination		
Frequency range	2.3-2.7 GHz - ISM & WiFi/WLAN M.I.M.O		
Bandwidth	Full frequency range stated - 400 MHz		
VSWR	Typical <1.5:1 - max. 2.0:1		
Tuning	Factory		
Gain - nominal	17 dBi - each plane	19 dBi - each plane	
Polarisation	Vertical and horizontal		
Maximum power	100 Watts	50 Watts	
Front-to-back ratio	>28dB		>25dB
Impedance	50 Ohms		
H Plane	23°	18°	
E Plane	23°	18°	
Connector	2 x reverse polarisation SMA fitted to rear of panel	2 x N-type female fitted to rear of panel	2 x reverse polarisation SMA fitted to rear of panel
Panel dimensions	Height: 305mm Width: 305mm Depth: 75mm	Height: 371mm Width: 371mm Depth: 40mm	
Weight	3.0kg	2.0kg	3.5kg
Wind load 160kph	Front: 11.268kg, 0.110kN Side: 2.771kg, 0.027kN	Front: 16.673kg, 0.163kN Side: 1.798kg, 0.018kN	Front: 16.673kg, 0.163kN Side: 2.022kg, 0.020kN
Mounting positions recommended	Adjustable rear mount U-bolt and bracket 30-50mm capability		



ZMP-1724-DP



ZMP-1924-DP



ZMP-1924F-DP

4x4 M.I.M.O. panels

Cross, vertical and horizontal polarised dualband panels

WiFi/WLAN 2.3-2.7 GHz and 4.9-5.9 GHz



The ZMP-172458 series of directional panels are available in either slant or vertical and horizontal polarised configurations. All of the models come supplied with an adjustable/tilt mounting hardware for ease of installation.

Coaxial cable, connectors, filtering and other installation accessories are all available separately.



	ZMP-172458-90XXP		ZMP-172458-90V2H2	
Construction	UV protected ABS radome, aluminium back screen and adjustable mounting bracket			
Frequency range	2.3-2.7 GHz and 4.9-5.9 GHz - dualband WiFi/WLAN & ISM compatible			
Bandwidth	Full frequency ranges stated			
VSWR	1.5:1 - typical			
Tuning	Factory			
Gain - nominal	2.3-2.7 GHz: 14 dBi	4.9-5.9 GHz: 17 dBi	2.3-2.7 GHz: 17 dBi	4.9-5.9 GHz: 20 dBi
Polarisation	2.3-2.7 GHz: ±45°	4.9-5.9 GHz: ±45°	2.3-2.7 GHz: V and H	4.9-5.9 GHz: V and H
Port-to-port isolation	20dB - typical			
Cross pol-isolation	20dB - typical			
Front-to-back ratio	-25dB - typical			
Mechanical tilt	-28° to +12°		-10° to +3°	
Maximum power	20 Watts			
Impedance	50 Ohms			
H Plane at -3dB	90° - both freq.			
E Plane at -3dB	16° at 2.3-2.7 GHz	7° at 4.9-5.9 GHz	8° at 2.3-2.7 GHz	4° at 4.9-5.9 GHz
Connector	2 x N-type female rear exit panel		4 x N-type female rear exit panel	
DC grounding	Yes			
Panel dimensions	Height: 380mm, Width: 260mm, Depth: 25mm		Height: 700mm, Width: 260mm, Depth: 25mm	
Weight	3.0kg		5.0kg	
Working temperature range	-45°C to + 65°C			
Wind load 160kph	Front: 11.968kg, 0.117kN Side: 1.151kg, 0.011kN			
Mounting capability	30-70mm diameter			



ZMP-172458-90XXP



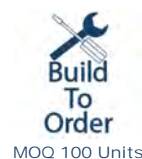
ZMP-172458-90V2H2

More models on following page...

4x4 M.I.M.O. panels

Cross, vertical and horizontal polarised dualband panels

WiFi/WLAN 2.3-2.7 GHz and 4.9-5.9 GHz



The ZMP-172458 series of directional panels are available in either slant or vertical and horizontal polarised configurations. All of the models come supplied with an adjustable/tilt mounting hardware for ease of installation.

Coaxial cable, connectors, filtering and other installation accessories are all available separately.



	ZMP-172458-90VHXP		ZMP-172458-90XPVH	
Construction	UV protected ABS radome, aluminium back screen and adjustable mounting bracket			
Frequency range	2.3-2.7 GHz and 4.9-5.9 GHz - dualband WiFi/WLAN & ISM compatible			
Bandwidth	Full frequency ranges stated			
VSWR	1.5:1 - typical			
Tuning	Factory			
Gain - nominal	2.3-2.7 GHz: 17 dBi & 4.9-5.9 GHz: 20 dBi			
Polarisation	2.3-2.7 GHz: V and H	4.9-5.9 GHz: ±45°	2.3-2.7 GHz: ±45°	4.9-5.9 GHz: V and H
Port-to-port isolation	20dB - typical			
Cross pol-isolation	20dB - typical			
Front-to-back ratio	-25dB - typical			
Mechanical tilt	-10° to +3°			
Maximum power	20 Watts			
Impedance	50 Ohms			
H Plane at -3dB	90° - both freq.			
E Plane at -3dB	8° at 2.3-2.7 GHz & 4° at 4.9-5.9 GHz			
Connector	4 x N-type female rear exit panel			
DC grounding	Yes			
Panel dimensions	Height: 700mm, Width: 260mm, Depth: 25mm			
Weight	5.0kg			
Working temperature range	-45°C to + 65°C			
Wind load 160kph	Front: 11.968kg, 0.117kN Side: 1.151kg, 0.011kN			
Mounting capability	30-70mm diameter			



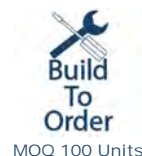
ZMP-172458-90VHXP



ZMP-172458-90V2H2

4x4 M.I.M.O. 90° panels

Dualband WiFi/WLAN cross, vertical and horizontal polarised
ISM & WiFi/WLAN 2.3-2.7 GHz and 4.9-5.9 GHz



The ZMP-202458-90 series of directional panels come in either slant, vertical and horizontal polarised configurations. All of the models come fitted with an adjustable tilt mounting bracket for ease of installation.

Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.



	ZMP-202458-90XXP	ZMP-202458-90V2H2
Construction	UV protected ABS radome, aluminium back screen and adjustable mounting bracket	
Frequency range	2.3-2.7 GHz and 4.9-5.9 GHz - dualband ISM & WiFi/WLAN - M.I.M.O	
Bandwidth	Full frequency ranges stated	
VSWR	1.5:1 - typical	
Tuning	Factory	
Gain - nominal	2.3-2.7 GHz: 17 dBi & 4.9-5.9 GHz: 20 dBi	
Polarisation	2.3-2.7 GHz: $\pm 45^\circ$ 4.9-5.9 GHz: $\pm 45^\circ$	2.3-2.7 GHz: V and H 4.9-5.9 GHz: V and H
Port-to-port isolation	20dB - typical	
Cross pol-isolation	20dB - typical	
Front-to-back ratio	-25dB - typical	
Mechanical downtilt	-10° to +3°	
Maximum power	20 Watts	
Impedance	50 Ohms	
H Plane at -3dB	90° - both freq.	
E Plane at -3dB	8° at 2.3-2.7GHz 4° at 4.9-5.9GHz	
Connector	4 x N-type female rear exit panel	
DC grounding	Yes	
Panel dimensions	Height: 700mm, Width: 260mm, Depth: 25mm	
Weight	5.0kg	
Working temperature range	-45°C to + 65°C	
Wind load 160kph	Front: 22.046kg, 0.216kN, Side: 2.12kg, 0.021kN	
Mounting capability	30-70mm diameter	



ZMP-202458-90XXP

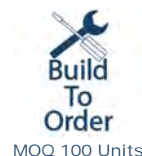


ZMP-202458-90V2H2

More models on following page...

4x4 M.I.M.O. 90° panels

Dualband WiFi/WLAN cross, vertical and horizontal polarised
ISM & WiFi/WLAN 2.3-2.7 GHz and 4.9-5.9 GHz



The ZMP-202458-90 series of directional panels come in either slant, vertical and horizontal polarised configurations. All of the models come fitted with an adjustable tilt mounting bracket for ease of installation.

Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.



	ZMP-202458-90VHXP	ZMP-202458-90XPVH
Construction	UV protected ABS radome, aluminium back screen and adjustable mounting bracket	
Frequency range	2.3-2.7 GHz and 4.9-5.9 GHz - dualband ISM & WiFi/WLAN - M.I.M.O	
Bandwidth	Full frequency ranges stated	
VSWR	1.5:1 - typical	
Tuning	Factory	
Gain - nominal	2.3-2.7 GHz: 17 dBi & 4.9-5.9 GHz: 20 dBi	
Polarisation	2.3-2.7 GHz: V and H 4.9-5.9 GHz: $\pm 45^\circ$	2.3-2.7 GHz: $\pm 45^\circ$ 4.9-5.9 GHz: V and H
Port-to-port isolation	20dB - typical	
Cross pol-isolation	20dB - typical	
Front-to-back ratio	-25dB - typical	
Mechanical downtilt	-10° to +3°	
Maximum power	20 Watts	
Impedance	50 Ohms	
H Plane at -3dB	90° - both freq.	
E Plane at -3dB	8° at 2.3-2.7 GHz 4° at 4.9-5.9 GHz	
Connector	4 x N-type female rear exit panel	
DC grounding	Yes	
Panel dimensions	Height: 700mm, Width: 260mm, Depth: 25mm	
Weight	5.0kg	
Working temperature range	-45°C to + 65°C	
Wind load 160kph	Front: 22.046kg, 0.216kN Side: 2.12kg, 0.021kN	
Mounting capability	30-70mm diameter	



ZMP-202458-90VHXP



ZMP-202458-90XPVH

WiFi 120°directional panels

Broadband dual or cross polarised panels

ISM & WiFi/WLAN 2.3-2.7 GHz



The ZMP-1324-120 series of 120° (degree) directional panels come in either dual or cross polarisation configuration. All of the models come fitted with an adjustable tilt mounting bracket for ease of installation.

Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.



	ZP-1324-120DP	ZP-1324-120XP
Construction	UV protected ABS radome, aluminium back screen and adjustable mounting bracket	
Frequency range	2.3-2.7 GHz - ISM & WiFi/WLAN compatible	
Bandwidth	Full frequency range stated - 400 MHz	
VSWR - typical	<1.5:1	
Tuning	Factory	
Gain - nominal	13 dBi - both planes	
Polarisation	Vertical and horizontal	+/- 45° slant/cross
Cross pol-isolation	>25dB	
Front-to-back ratio	≥21dB	
Maximum power	200 Watts	
Impedance	50 Ohms	
H Plane	120°	
E Plane	15°	
Connector	2 x N-type female bottom exit from panel	
DC grounding	Yes	
Panel dimensions	Height: 515mm, Width: 180mm, Depth: 60mm	
Weight	4.5kg	
Working temperature range	-40°C to + 60°C	
Wind load at 160kph	Front: 11.229kg, 0.110kN Side: 3.743kg, 0.037kN	
Mounting	Adjustable mounting bracket attached to rear of panel with 30-70mm capability	



ZP-1324-120DP



ZP-1324-120XP

ZP-1524-180

Vertically polarised WiFi panel
ISM & WiFi/WLAN 2.4-2.4835 GHz



The ZP-1524-180 directional panel is a vertically polarised enclosed panel. The ZP-1524-180 comes fitted with an adjustable tilt mounting bracket for ease of installation.



Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.

Construction	UV protected ABS radome, aluminium back screen and adjustable mounting bracket
Frequency range	2.4-2.4835 GHz - ISM & WiFi/WLAN compatible
Bandwidth	Full frequency range stated - 83.5 MHz
VSWR	<1.5:1
Tuning	Factory
Gain - nominal	15 dBi
Polarisation	Vertical
Intermodulation IM3	≤ -117dBm
Front-to-back ratio	≥25dB
Maximum power	200 Watts
Impedance	50 Ohms
H Plane	180° ± 10°
E Plane	12° ± 0.5°
Connector	N-type female bottom exits from panel
DC grounding	Yes
Panel dimensions	Height: 950mm, Width: 180mm, Depth: 60mm
Weight	5.0kg
Working temperature range	-40°C to + 60°C
Wind load 160kph	Front: 20.713kg, 0.203kN Side: 6.904kg, 0.068kN
Mounting capability	50-110mm diameter



ZP-1524-180

WiFi 120°directional panels

Single, Dual or cross polarised
ISM & WiFi/WLAN 2.3-2.7 GHz



The ZP-1624-120 series of 120° (degree) directional panels come in either single, dual or cross polarisation configuration. All of the models come fitted with an adjustable tilt mounting bracket for ease of installation.

Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.



	ZP-1624-120	ZP-1624-120DP	ZP-1624-120XP
Construction	UV protected ABS radome, aluminium back screen and adjustable mounting bracket		
Frequency range	2.3-2.7 GHz - ISM & WiFi/WLAN compatible		
Bandwidth	Full frequency range stated - 400 MHz		
VSWR	<1.5:1	<1.5:1 - max. 2.0:1	
Tuning	Factory		
Gain - nominal	16 dBi		
Polarisation	Vertical	Vertical and horizontal - dual polarised	Cross polarisation (XPOL) ±45°
Intermodulation IM3	≤107dBm	-	-
Cross pol-isolation	-	>25dB	
Front-to-back ratio	≥21dB		
Maximum power	50 Watts		
Impedance	50 Ohms		
H Plane	120° ± 5°	120°	
E Plane	9° ± 0.5°	9°	9°
Connector	N-type female bottom exits panel	2 x N-type female bottom exit from panel	
DC grounding	Yes		
Panel dimensions	Height: 890mm, Width: 180mm, Depth: 60mm		
Weight	5.0kg	4.5kg	
Working temperature range	-40°C to + 60°C		
Wind load 160kph	Front: 19.405kg, 0.190kN Side: 6.468kg, 0.063kN		
Mounting capability	50-110mm diameter	30-70mm diameter	



ZP-1624-120



ZP-1624-120DP



ZP-1624-120XP



PD-240N2

2-Way N-type female terminated power divider

2.4-2.5 GHz ISM / WiFi / WLAN / WiMAX



The PD-240N2 is a power divider for combining the output of two WiMAX data link antennas operating in the 2.4 to 2.5GHz range such as the SG2400 or Y2400-9.

The PD-240N2 has the ability to be installed either inside a structure or outside, ensure appropriate weather-proofing is applied to maintain the service life of the PD-240N2.

The PD-240N2 comes fitted with a right-angle mounting bracket for either rack or wall mounting. A suitable M6 mounting bolt or screw will be required for securing.

Branch feeder cables, water-proofing, bird proofing and other installation accessories are all available separately.



Construction	Aluminium outer body, aluminium mount bracket and chrome plated terminations
Frequency range	2.4-2.5 GHz - ISM, WiFi/WLAN and WiMAX compatible
Bandwidth	Full frequency range stated - 100 MHz
VSWR	<1.2:1
Impedance - nominal	50 Ohms
Maximum power - peak	250 Watts
Input connector	N-type female jack
Output connector	2 x N-type female jacks
Dimensions	80mm long x 50mm wide
Weight	200grams
Mounting hardware	Mount using bracket supplied - will require securing bolt/screw for mounting into rack or onto wall
Mounting position	Can be mounted either internally or externally. For external mounting ensure all terminations are sealed with a layer of amalgamation butile rubber and a layer of UV stabilised PVC tape.

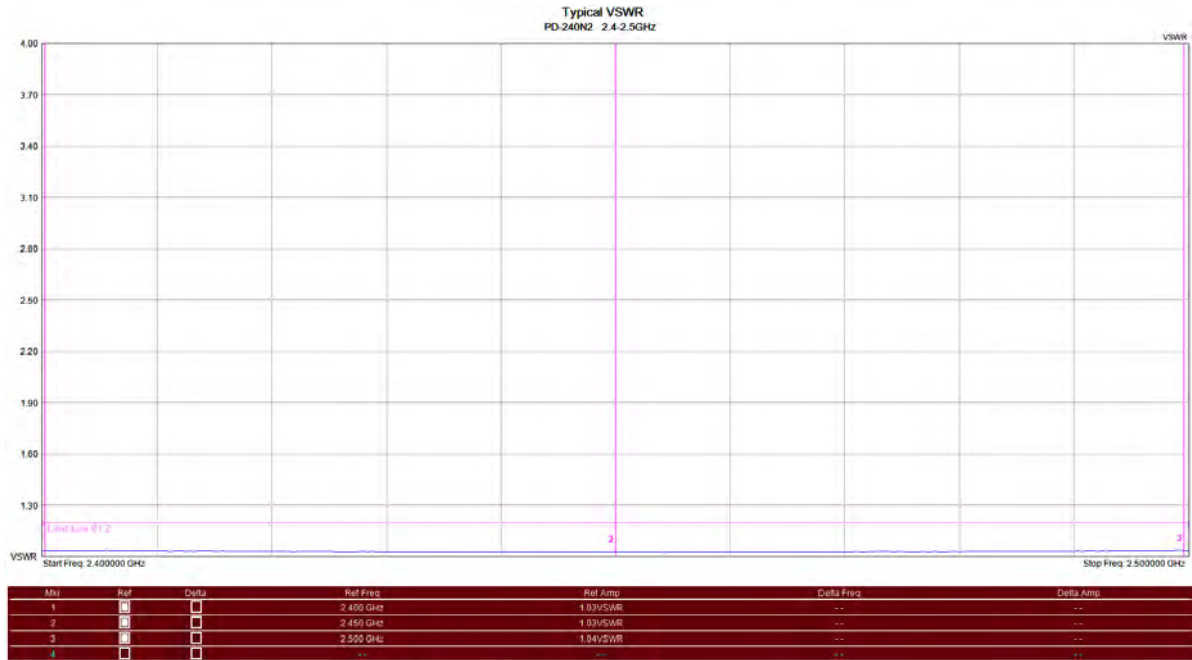




PD-240N2

2-Way N-type female terminated power divider

2.4-2.5 GHz ISM / WiFi / WLAN / WiMAX



Typical VSWR

PD-NN2-8002700

2-Way power divider / splitter for STL links UHF / Mobile Phone 800-2700MHz



The PD-NN2-8002700 is a 2-way power divider or power splitter suitable for UHF, Mobile phone or UHF STL link applications utilising the 800-2700 MHz frequency range.

STL Links utilise the 850 MHz dedicated frequency.

Coaxial cable assemblies, adaptors, antennas and other RF solutions are all available separately.

Electrical specifications

Frequency range	UHF STL link/ Mobile Phone 800-2700MHz
Bandwidth	Full frequency range stated - 1900 MHz
Insertion loss	Typical <3.4dB
Isolation	Typical >20dB
Maximum input power	50 Watts
VSWR	≤1.3:1
Impedance	50 Ohms
Amplitude imbalance	≤0.3dB
IM 3rd order	<-140dBc at (2*43dBm)
Passband ripple	<0.3dB

Mechanical specifications

Construction	Machined aluminium body and mount bracket and nickel plated terminations
Connector	Output: N-type female jack Input: N-type female jack
Operating temperature	-50°C to +70°C
Humidity	5% - 95%
Dimensions	Length: 96mm, Width: 74mm, Height: 23mm
Weight	0.2kg
Mounting position	Mount using the mounting slots located on the side of the unit



PD-6QMA-6982700

6-Way power divider with QMA female terminations
4G LTE, 4G/3G & WiFi/WLAN 698-2700 MHz

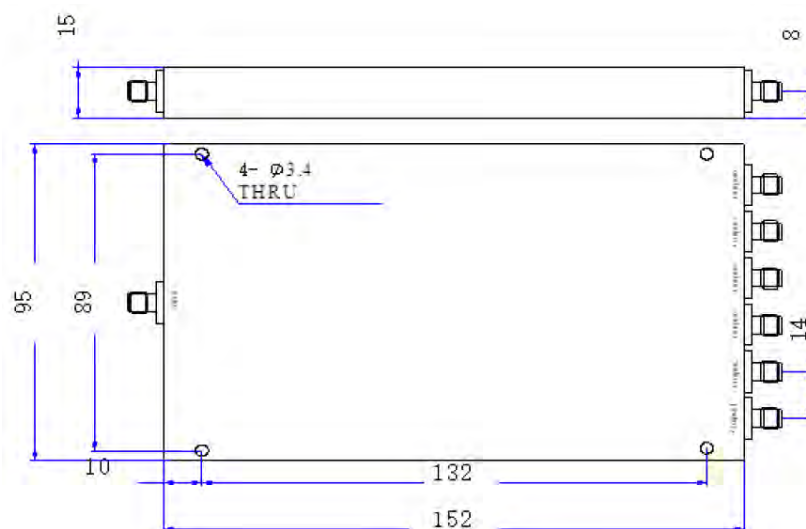


Electrical specifications

Frequency range	698-2700 MHz - 4G LTE, 4G/3G and WiFi/WLAN compatible
Bandwidth	Full frequency range stated - 2002 MHz
Insertion loss	Typical <1.8dB - maximum - excluding theoretical loss 0.7dB
Isolation	Typical >20dB
Maximum power	100 Watts - higher power models available, consult ZCG
VSWR	Input: ≤1.3:1 Output: ≤1.15:1
Impedance	50 Ohms
Amplitude balance	≤0.5dB
Phase balance	+6°
Power handling	Forward Power: 40W Reverse Power: 3W

Mechanical specifications

Connector	6 x Input: N-type female or specify QMA female 1 x Output: N-type female or specify QMA female
Operating temperature	-30°C to +70°C
Humidity	5% - 95%
Dimensions	Depth: 152mm, Width: 95mm, Height: 15mm
Weight	0.5kg
Mounting location	Internal use only - not for exterior mounting.



Mobile Phone Power Dividers

Broadband splitter N-type male or SMA terminated
4G LTE, 4G/3G and WiFi/WLAN 700-2700 MHz



These 4G LTE, 4G and 3G mobile phone power divider/splitters are ideal for low power splitter/combiners applications within the 700-2700 MHz frequency range.

The genuine broadband range of these splitters is suitable for all mobile phone networks within Australia.

Specify either N-type female terminations or SMA female terminations when ordering.

Adaptors, filters and multicoupling, antennas and other installation accessories are all available separately.



PS-2NSM-0727 in both models.

	PS-2NSM-0727	PS-8NSM-0727
Construction	Aluminium outer case and chrome or gold plated terminations	
Splitting capability	2-way	8-way
Frequency range	700-2800 MHz - 4G LTE, 4G/3G and WiFi/WLAN compatible	
Bandwidth	Full frequency range stated - 2100 MHz	
VSWR	<1.3:1	<1.5:1
Impedance nominal	50 Ohms	
Insertion loss	3.5dB	10.5dB
Ripple in band	0.3dB	-
Isolation	20dB	
Connector	N-type females or SMA females	
Maximum input power	50 Watts	
Dimensions	W: 50mm D: 50mm H: 17.5mm	W: 200mm D: 72mm H: 20mm
Weight	150grams	700grams



PS-8NSM-0727

Z6DC-8002500

6dB directional coupler

UHF, 4G/3G & WiFi/WLAN 800-2500 MHz



The Z6DC-8002500 is a 6dB directional coupler suitable for UHF, 4G/3G mobile phone and WiFi/WLAN or UHF STL link applications utilising the 800-2500 MHz frequency range.

STL Links utilise the 850MHz dedicated frequency.

Coaxial cable assemblies, adaptors, antennas and other RF solutions are all available separately.

Electrical specifications

Frequency range	800-2500 MHz - UHF, 4G/3G and WiFi/WLAN compatible
Bandwidth	Full frequency range stated - 1700 MHz
Insertion loss	Typical <0.25dB
Isolation	Typical >20dB
Maximum input power	50 Watts
VSWR	≤1.3:1
Impedance	50 Ohms
Thru loss	Typical 1.41dB
Connector flatness	Typical +/- 0.5dB
Directivity	>20dB

Mechanical specifications

Construction	Painted outer body and tri-metal plated terminations (low IM)
Connector	Output: N-type female jack Input: N-type female jack
Operating temperature	-30°C to +60°C
Humidity	5% - 95%
Dimensions	Length: 57mm, Width: 86mm, Height: 19mm
Weight	0.3kg
Mounting position	Mount using the mounting hole located in each corner of the unit



Y3000-9

Radome enclosed directional point-to-point Yagi

UHF 3.4-3.6GHz



The Y3000-9 mast mount Yagi's are specifically designed for directional point-to-point 3.4-3.6GHz wireless data transmit and receive applications. The enclosed design ensures protection from damage or water ingress, increasing the service life.

Coaxial feeder cable, water-proofing, bird proofing, adaptors and other installation accessories are all available separately.

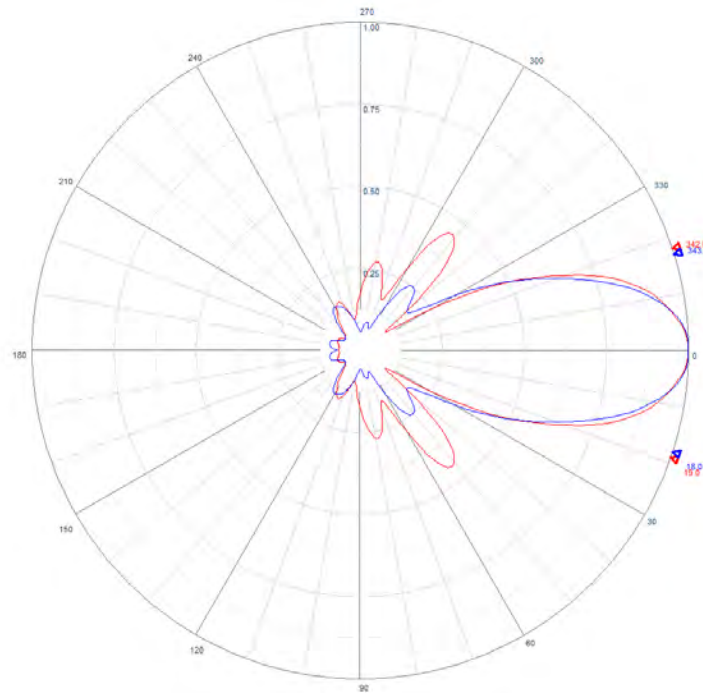
Construction	Black fibreglass radome, aluminium plate, galvanised steel mounting hardware, external coaxial cable and termination - White radome available on request
Frequency range	3.4-3.6 GHz - UHF and 5G frequency compatible
VSWR	<1.8:1 VSWR
Tuning	Factory
Number of elements	9
Gain - nominal	11.3 dBi
Maximum power	25 Watts
Impedance	50 Ohms
Polarisation	Mount horizontal or vertical as required
H Plane	35°
E Plane	35°
Front-to-back ratio	-20 dB
DC grounding	Yes
Cable	200mm RG142B/U, rear exit from plate
Connector	N-type female fitted to cable - as standard
Dimensions	300mm x 80mm
Weight	1.5kg
Projected area	0.015m ²
Wind load at 160kph	1.82kg
Mounting hardware supplied	Aluminium mount plate, 2 x galvanised steel V-blocks and 2 x 50mm diameter galvanised steel U-bolts
Installation tools required	13mm spanner for U-bolts securing



Y3000-9

Radome enclosed directional point-to-point Yagi

UHF 3.4-3.6 GHz







Example radiation pattern - Y3000-9

Y3000-9

Radome enclosed directional point-to-point Yagi

UHF 3.4-3.6 GHz

Suitable mounting hardware

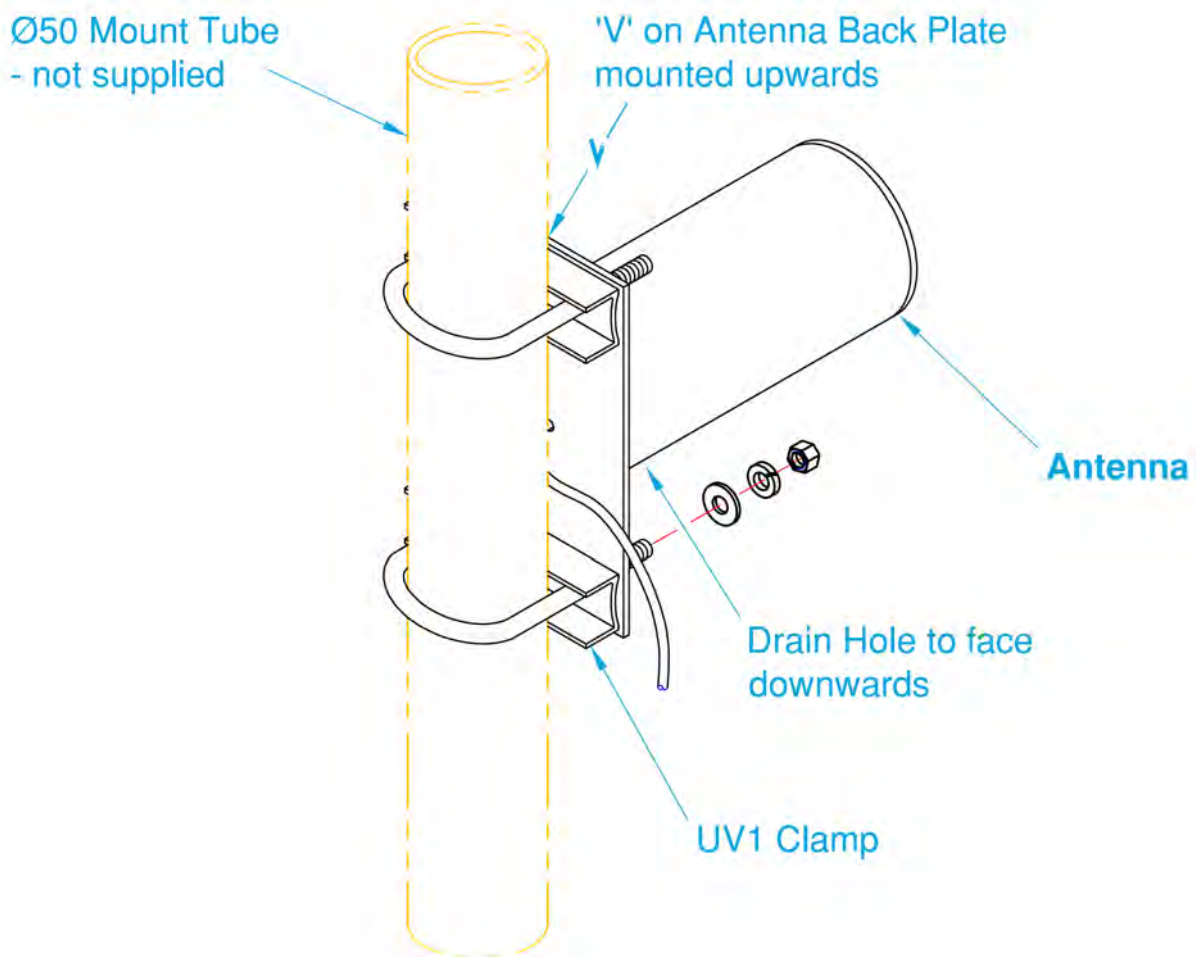
 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>
 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2307 - 6-piece aluminium & fibreglass mast - 6.68m</p> <p>Includes: insulated top, guy wires, spigots and base bracket.</p>

Suitable feeder coaxial cable and connectors

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave) P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor P/N 8226 Tri-metal plated</p>
 <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (™ times microwave) P/N 7890-3</p> <p>Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU600 low loss, solid conductor P/N 8226-2 Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable P/N NM1250SF Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable P/N NM1250 Tri-metal plated</p>

Y3000-9

Radome enclosed directional point-to-point Yagi
UHF 3.4-3.6 GHz



Vertical Polarisation:



Z2500-8 & Z2600-8

Omni-directional high gain mast mount collinear

UHF 2.46-2.58 GHz or 2.62-2.68 GHz



The Z2500-8 and Z2600-8 are omni-directional mast mount collinears designed for wireless data communications within 2.46-2.58 GHz or 2.62-2.68 GHz.

Mounting hardware, coaxial feeder cable, water-proofing, bird proofing and other installation accessories are all available separately.



	Z2500-8	Z2600-8
Construction	White fibreglass radome and 304 stainless steel mount section with external termination	
Frequency range	2.46-2.58 GHz - UHF	2.62-2.68 GHz - UHF
Bandwidth	Full frequency range stated	
VSWR	<1.5:1	
Tuning	Factory	
Gain	10 dBi	
Impedance - nominal	50 Ohms	
Maximum power	50 Watts	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	360° omnidirectional	
E Plane	14°	
Connector	N-type female in base of mount section - as standard	
Height	820mm	810mm
Weight	600grams	590grams
Mount section	240mm x 25.4mm - 304 stainless steel	
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS	
Mounting position recommended	Mount as high on your structure, mast or tower as possible using the appropriate mounting clamp/s. Ensure the antenna is mounted away from any vertical metallic objects	



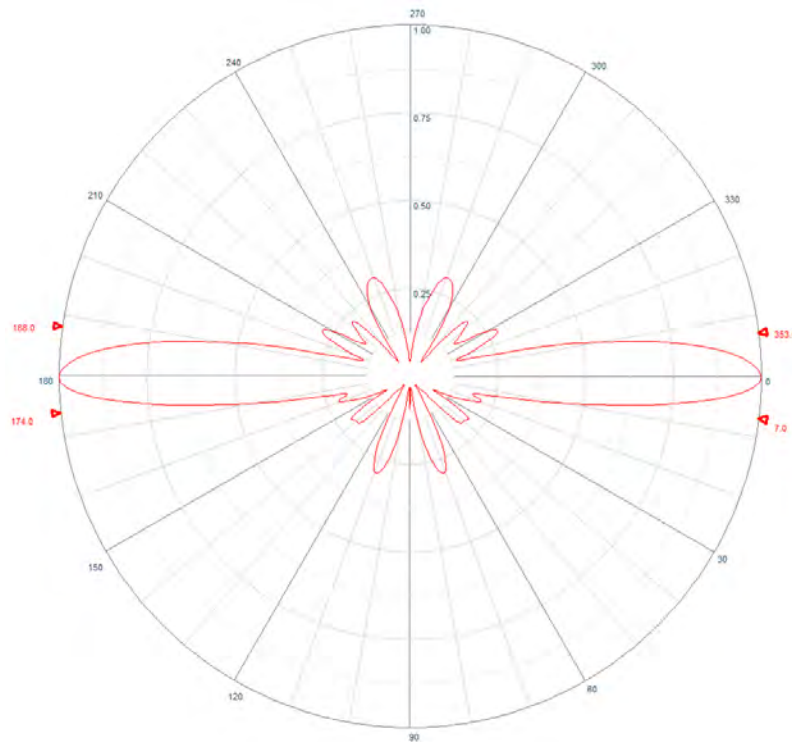
N-type female in base of mount section



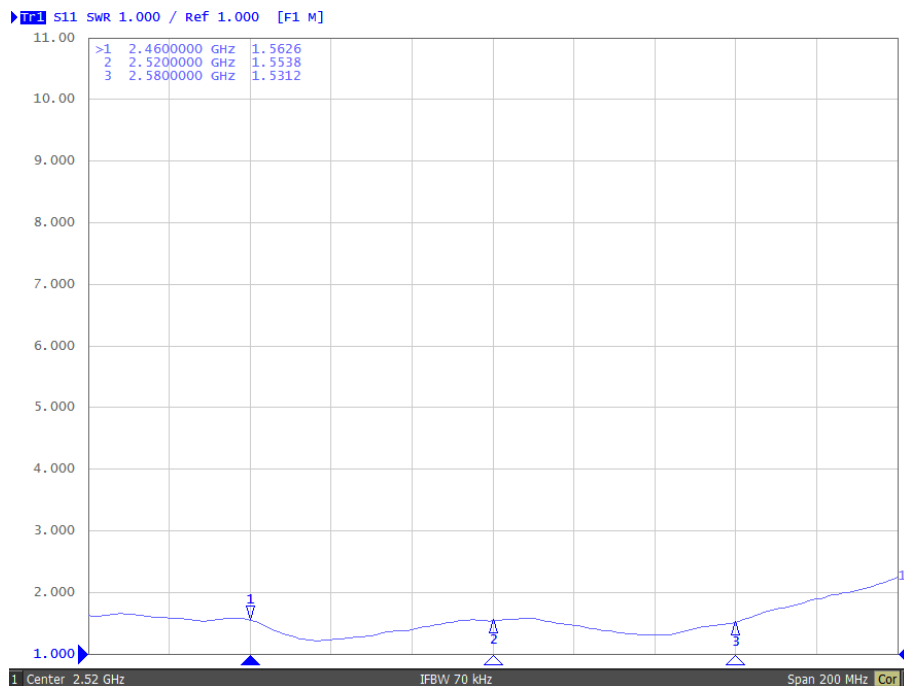
Z2500-8 & Z2600-8

Omni-directional high gain mast mount collinear

UHF 2.46-2.58 GHz or 2.62-2.68 GHz



Example radiation pattern - Z2500-8



Typical VSWR - Z2500-8

Z2500-8 & Z2600-8

Omni-directional high gain mast mount collinear

UHF 2.46-2.58 GHz or 2.62-2.68 GHz



CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.

Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS



A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.

Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS



SFB Series - galvanised steel pole extension 0.9-2.0 metres
Roof or overhang mounting

Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS



EB1-SS - requires 2
304 stainless steel parallel clamp
Boom: 20-40mm capability
Mount pole: 25-45mm capability



UB3-SS
304 stainless steel parallel clamp
Boom: 20-32mm capability
Mount pole: 20-50mm capability



RB8 - requires 2
Galvanised steel right-angle clamp
Boom: 20-40mm capability
Mount pole: 20-40mm capability



UB2-SS
304 stainless steel right-angle clamp
Boom: 20-50mm capability
Mount pole: 20-50mm capability

Suitable feeder coaxial cable and connectors



RU400 Solid copper conductor, low loss coaxial cable
CNT-400 / LMR-400™ equivalent
(™ times microwave)

P/N 7890

Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU400 low loss, solid conductor

P/N 8226

Tri-metal plated



RU600 Solid copper conductor, low loss coaxial cable
LMR-600™ equivalent
(™ times microwave)

P/N 7890-3

Available in 500m roll or alternatively request a custom cable assembly



N-type male crimp connector for RU600 low loss, solid conductor

P/N 8226-2

Tri-metal plated



SG3500

Omni-directional mast/bracket mount collinear

IoT/Wireless data/ C-band 5G 3.4-3.6 GHz



The SG3500 omnidirectional C-band 5G wireless data collinear can be used as a 5G mobile phone improvement in partnership with a CEL-FI GO unit or for wireless data transfer applications.

Mounting hardware, adaptors, coaxial cable and installation accessories are all available separately.



Construction	White fibreglass radome, internal PCB, aluminium mount ferrule and side exit cable assembly
Frequency range	3.4-3.6 GHz - N78, C-band 5G
Bandwidth	Full frequency range stated - 200 MHz
VSWR	<1.8:1
Tuning	Factory
Gain	6.0 dBi
Impedance - nominal	50 Ohms
Maximum power	20 Watts
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omni-directional
E Plane	21°
Connector	SMA male fitted as standard, or specify requirements
Cable	500mm RU240-UF side exit from ferrule or specify requirements
Height	340mm
Weight	179grams
Projected area	0.006m ²
Wind load at 160kph	0.766kg, 0.008kN
Temperature range	-10°C - +60°C
Mounting hardware order separate	Bracket: GM1, GM6, A-6211, A-4115 or A-4115-2 Bracket mount: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Magnetic base: MGB Alternate spring base: A-1269, A-1269-14 or A-1270
Mounting position recommended	Mount as high on your building or tower as possible using a minimum 12.7mm hole or appropriate bracket
Installation tools required	19mm or 3/8" spanner for securing nut



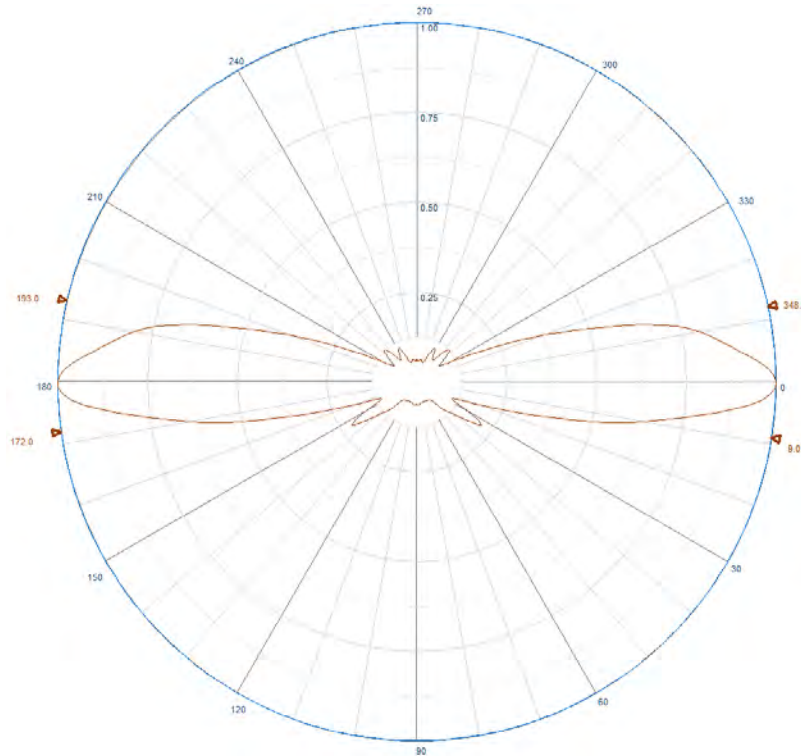
SMA male fitted as standard or specify requirements



1/2"-12BSW threaded base with nut+washer, requires 12.7mm hole

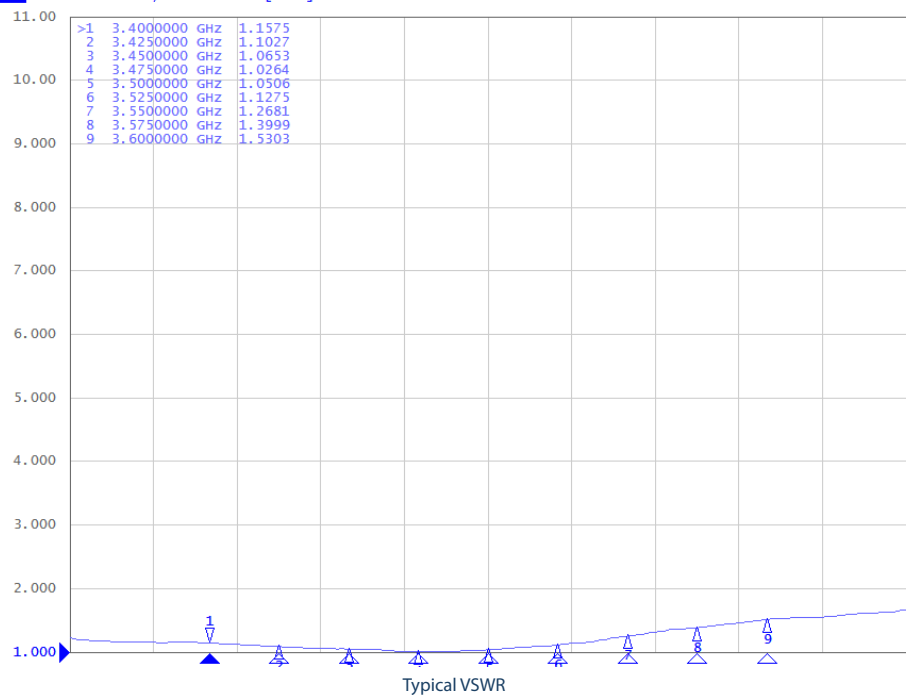
SG3500

Omni-directional mast/bracket mount collinear
IoT/Wireless data/ C-band 5G 3.4-3.6 GHz



Example polar radiation pattern

▶ **17.1** S11 SWR 1.000 / Ref 1.000 [F1 M]

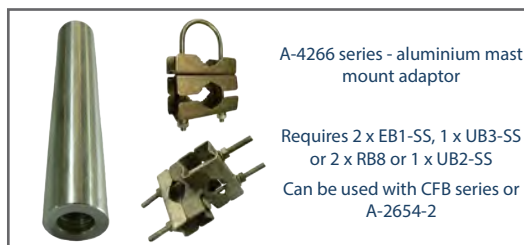


Typical VSWR

SG3500

Omni-directional mast/bracket mount collinear

IoT/Wireless data/ C-band 5G 3.4-3.6 GHz

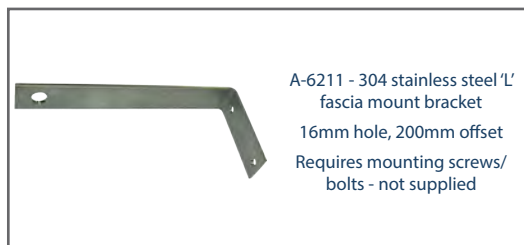


A-4266 series - aluminium mast mount adaptor

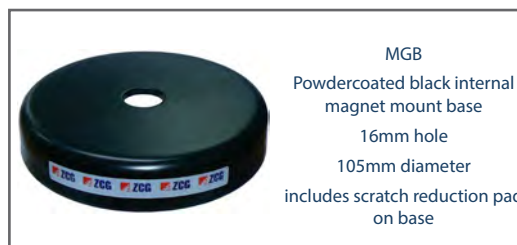
Requires 2 x EB1-SS, 1 x UB3-SS
or 2 x RB8 or 1 x UB2-SS
Can be used with CFB series or
A-2654-2



GM1 - 304 stainless steel 'L'
fascia mount bracket
16mm hole
Requires mounting screws/
bolts - not supplied



A-6211 - 304 stainless steel 'L'
fascia mount bracket
16mm hole, 200mm offset
Requires mounting screws/
bolts - not supplied



MGB
Powdercoated black internal
magnet mount base
16mm hole
105mm diameter
includes scratch reduction pad
on base



A-2845
Powdercoated black tri-
magnetic mount base
13mm hole
Santoprene coated magnets
for scratch reduction



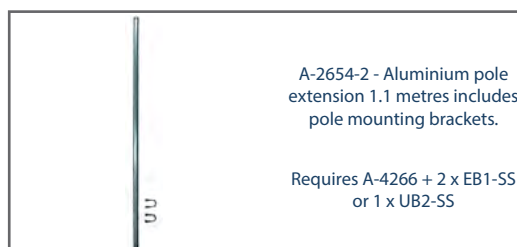
CFB series - Galvanised steel 'J'
hockey stick brackets, 1.1 - 2.1
metres.

Requires A-4266 series + 2 x
EB1-SS or 1 x UB2-SS



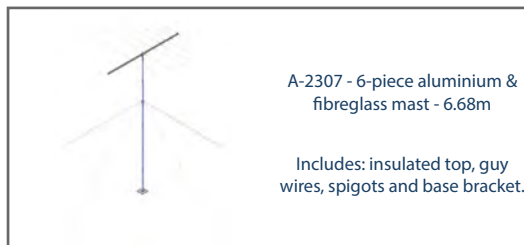
SFB Series - galvanised steel
pole extension 0.9-2.0 metres
Roof or overhang mounting

Requires A-4266 + 2 x EB1-SS
or 1 x UB2-SS



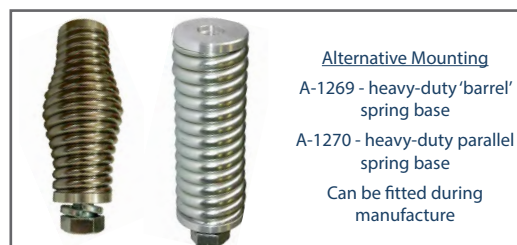
A-2654-2 - Aluminium pole
extension 1.1 metres includes
pole mounting brackets.

Requires A-4266 + 2 x EB1-SS
or 1 x UB2-SS



A-2307 - 6-piece aluminium &
fibreglass mast - 6.68m

Includes: insulated top, guy
wires, spigots and base bracket.



Alternative Mounting

A-1269 - heavy-duty 'barrel'
spring base

A-1270 - heavy-duty parallel
spring base

Can be fitted during
manufacture



SGL3500

Omni-directional parallel spring base collinear IoT/Wireless data/ C-band 5G 3.4-3.6 GHz



The SG3500 omnidirectional C-band 5G wireless data collinear can be used as a 5G mobile phone improvement in partnership with a CEL-FI GO unit or for wireless data transfer applications.



Mounting hardware, adaptors, coaxial cable and installation accessories are all available separately.

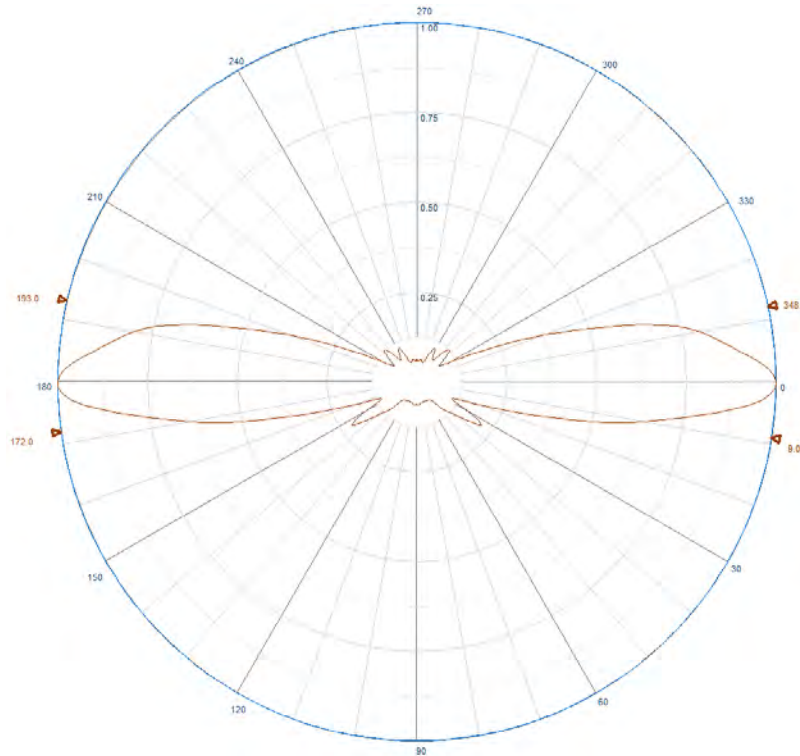
Construction	White fibreglass radome, internal PCB, aluminium mount ferrule, parallel spring base and bottom exit cable
Frequency range	3.4-3.6 GHz - N78, C-band 5G
Bandwidth	Full frequency range stated - 200 MHz
VSWR	<1.8:1
Tuning	Factory
Gain	6.0 dBi
Impedance - nominal	50 Ohms
Maximum power	20 Watts
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omni-directional
E Plane	21°
Connector	SMA male fitted as standard, or specify requirements
Adaptor supplied	SMA female to FME female
Cable	8.0 metres RU240-UF bottom exit from spring or specify length requirements
Height	400mm
Weight	740grams
Projected area	0.007m ²
Wind load at 160kph	0.838kg, 0.008kN
Temperature range	-10°C - +60°C
Mounting hardware order separate	Bracket: GM1, GM6, A-6211, A-4115 or A-4115-2 Bracket mount: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Magnetic base: MGB or A-2845
Mounting position recommended	Mount as high on your vehicle as possible to ensure true omnidirectional signal performance.
Installation tools required	19mm or 3/8" spanner for securing nut



SMA male fitted as standard or specify requirements

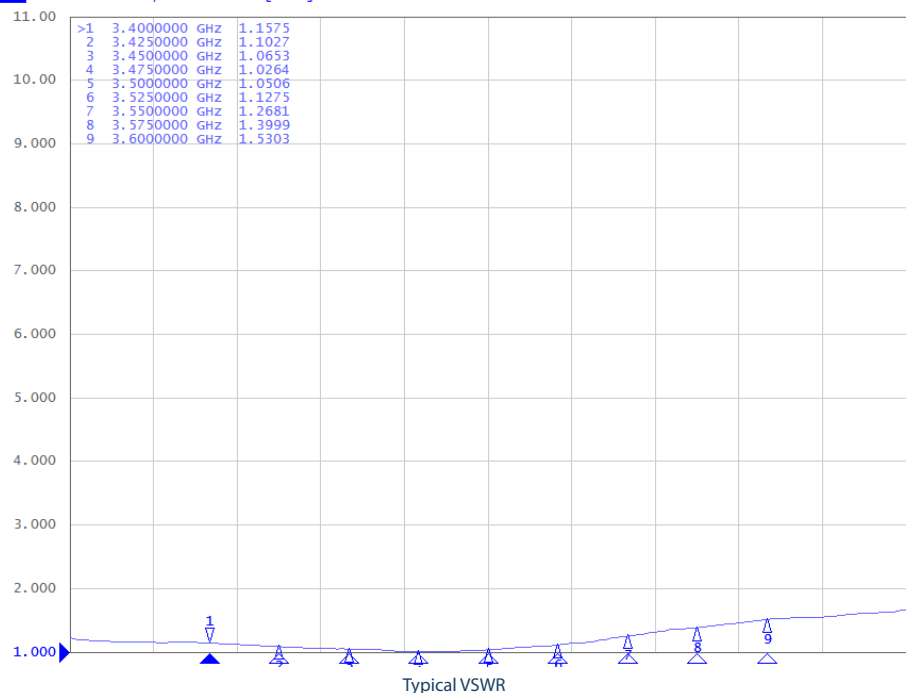
SGL3500

Omni-directional parallel spring base collinear
IoT/Wireless data/ C-band 5G 3.4-3.6 GHz



Example polar radiation pattern

▶ **17.1** S11 SWR 1.000 / Ref 1.000 [F1 M]



Typical VSWR



SGL3500

Omni-directional parallel spring base collinear

IoT/Wireless data/ C-band 5G 3.4-3.6 GHz



BBM-SS - wrap around bull bar mount, up to 50mm diameter bull bar tube

16mm mount hole

Requires 10mm spanner



BBML-SS - wrap around extra large bull bar mount, up to 65mm diameter bull bar tube

16mm mount hole

Requires 10mm spanner



BBMXL-SS - wrap around extra large bull bar mount, up to 76mm diameter bull bar tube

16mm mount hole

Requires 10mm spanner



BBKB-B - Rhino knock down antenna mount, powder coated black

17mm mount hole with cable slot



ATLM series - Adjustable bonnet, boot and door jam mount. 360 rotational and 140 degree adjustment

16mm mount hole

Black or Chrome

Includes 5mm and 2mm allen keys



GM1 - 304 stainless steel 'L' mount bracket

16mm mount hole



MRM-SS - 304 stainless steel clamp style mirror mount

16mm mount hole

Requires 10mm spanner



MGB - Black powdercoated magnetic base mount with scratch reduction pad. 20kg pull force

Can be fitted during manufacture

16mm mount hole and 5.5mm cable hole



A-2845

Powdercoated black tri-magnetic mount base

13mm hole

Santoprene coated magnets for scratch reduction



A-6211 - 304 stainless steel 'L' fascia mount bracket

16mm hole, 200mm offset

Requires mounting screws/ bolts - not supplied

Z3500-10-NF

Omni-directional high gain collinear

5G/Wireless data 3.4-3.7GHz



The Z3500-10-NF is an omni-directional mast mount collinear, designed and manufactured for wireless data communications, M2M, IoT and is 5G frequency compatible in the 3.4-3.7GHz frequency range.



Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.

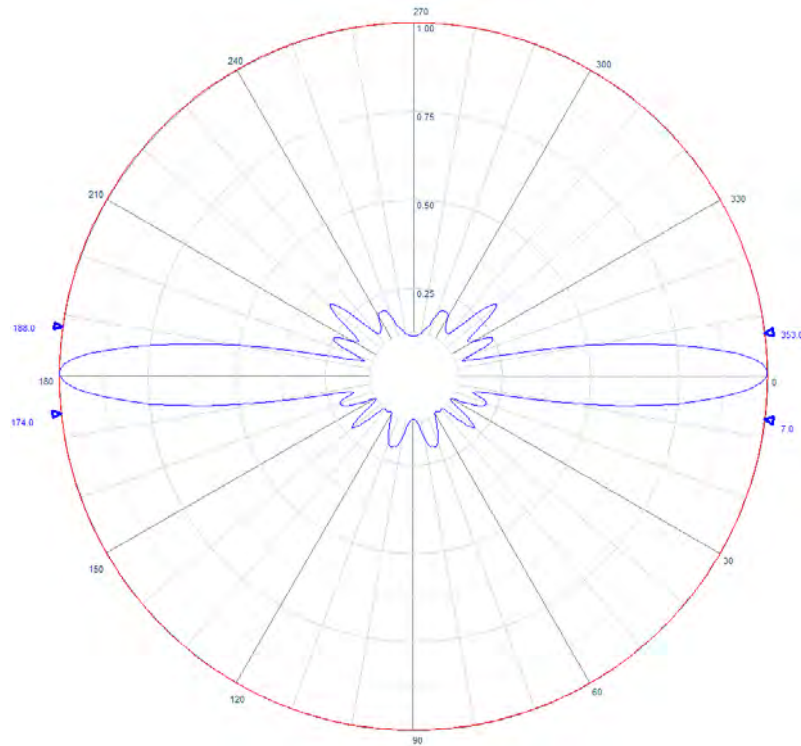
Construction	White fibreglass radome, chrome mount ferrule and aluminium mount adaptor
Frequency range	M2M/IoT/CBRS 3.4-3.7GHz - 5G compatible
Bandwidth	Full frequency range
VSWR	<1.5:1
Tuning	Factory
Gain	10dBi
Maximum power	50 Watts
Impedance - nominal	50 Ohms
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omni-directional
Connector	N-type female jack in base of ferrule, no cable
Height	780mm
Weight	500grams
Projected area	0.021m ²
Wind load at 160kph	2.508kg, 0.025kN
Mounting hardware - supplied	Detachable aluminium mount extension adaptor
Mounting hardware order separate	Parallel: 2 x EB1-SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS
Mounting position recommended	Mount as high as possible on your structure, tower or mast using the appropriate mounting clamps. Connect cable then insert the antenna ferrule into the mount adaptor until secure.



Z3500-10-NF

Omni-directional high gain collinear

5G/Wireless data 3.4-3.7GHz

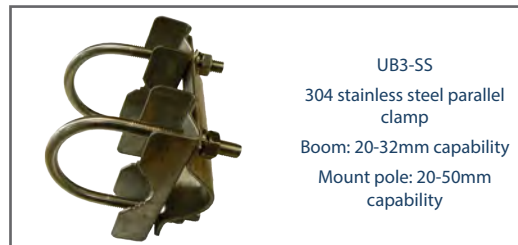
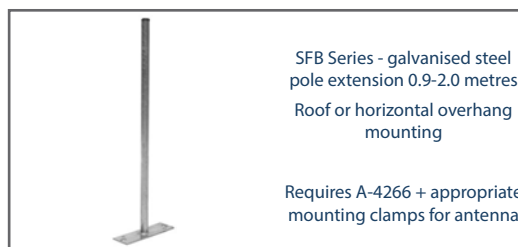
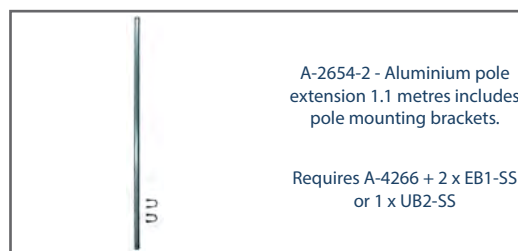


Example radiation pattern - Z1280

Z3500-10-NF

Omni-directional high gain collinear

5G/Wireless data 3.4-3.7GHz



Suitable Coaxial Cable





Y2650 Series

Radome enclosed directional point-to-point Yagi

MMDS & UHF 2.65 GHz



The Y2650 series of mast mount Yagi's are specifically designed for directional point-to-point 2.65 GHz wireless data transmit and receive applications such as MMDS or BRS.

The enclosed design ensures protection from damage or water ingress, increasing the service life of these antennas.

Coaxial feeder cable, water-proofing, bird proofing, adaptors and other installation accessories are all available separately.



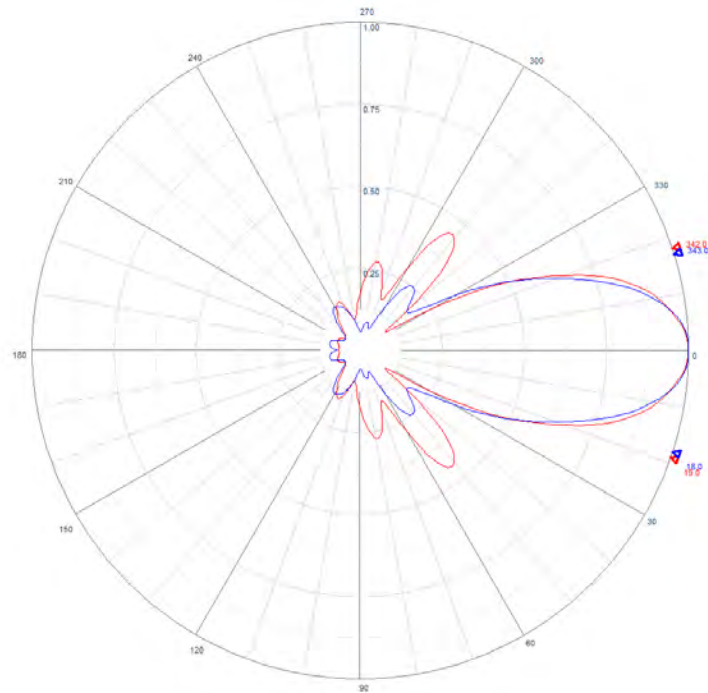
	Y2650-9	Y2650-18
Construction	White fibreglass radome and aluminium mount plate	
Frequency range	2.65 GHz - UHF, MMDS and BRS compatible	
VSWR	<1.8:1 VSWR	
Tuning	Factory	
Number of elements	9	18
Gain - nominal	11.3 dBi	17.8 dBi
Maximum power	25 Watts	
Impedance	50 Ohms	
Polarisation	Mount horizontal or vertical as required	
H Plane	35°	29°
E Plane	35°	31°
Front-to-back ratio	-20 dB	-20 dB
DC grounding	Yes	Yes
Cable	200mm RG142B/U, rear exit from plate	
Connector	N-type female fitted to cable - as standard	
Dimensions	300mm x 80mm	700mm x 80mm
Weight	1.5kg	2kg
Projected area	0.015m ²	0.035m ²
Wind load at 160kph	1.82kg	4.26kg
Mounting hardware supplied	Aluminium mount plate, 2 x galvanised steel V-blocks and 2 x 50mm diameter galvanised steel U-bolts	
Installation tools required	13mm spanner for U-bolts securing	



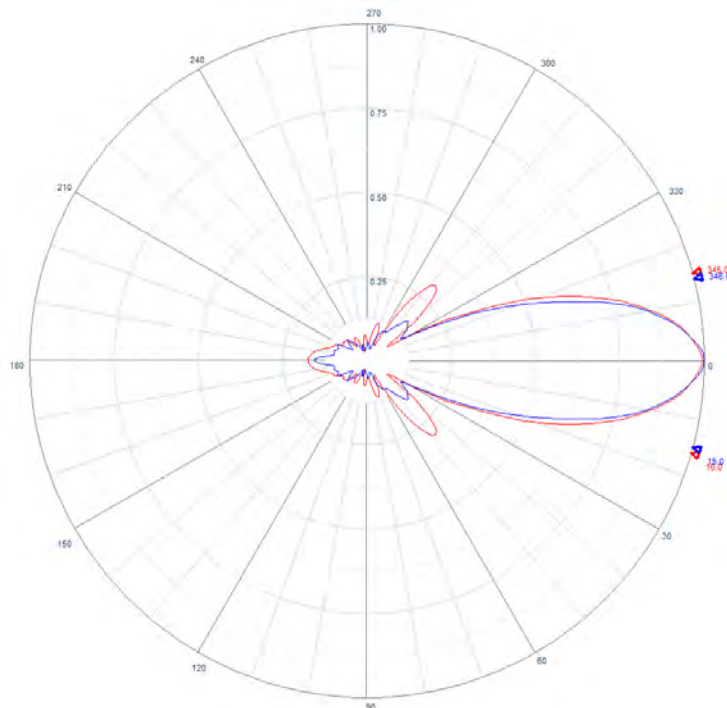
Y2650 Series

Radome enclosed directional point-to-point Yagi

MMDS & UHF 2.65 GHz



Example radiation pattern - Y2650-8

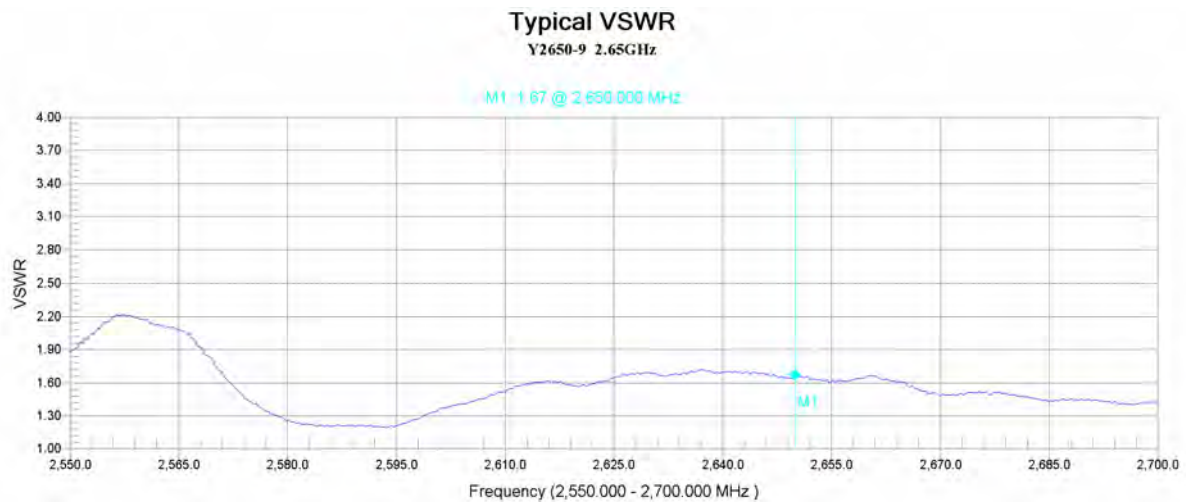


Example radiation pattern - Y2650-18

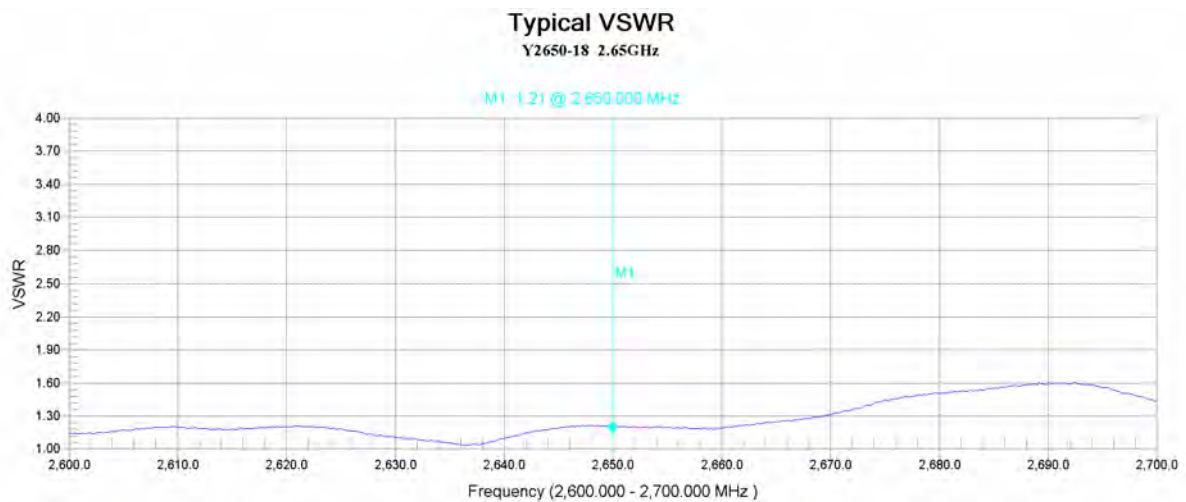
Y2650 Series

Radome enclosed directional point-to-point Yagi

MMDS & UHF 2.65 GHz



Typical VSWR - Y2650-9







Typical VSWR - Y2650-18

Y2650 Series

Radome enclosed directional point-to-point Yagi

MMDS & UHF 2.65 GHz

Suitable mounting hardware

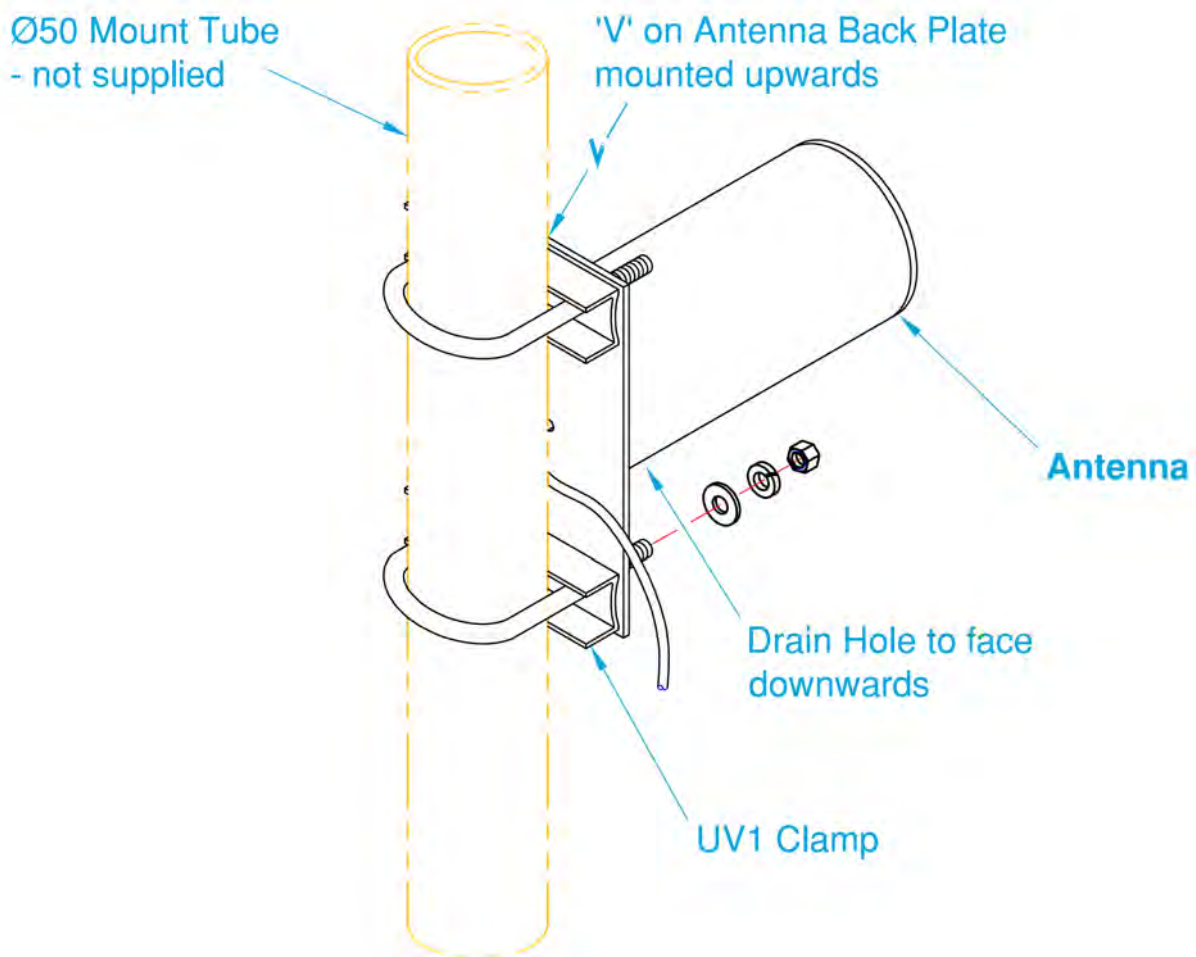
 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>
 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2307 - 6-piece aluminium & fibreglass mast - 6.68m</p> <p>Includes: insulated top, guy wires, spigots and base bracket.</p>

Suitable feeder coaxial cable and connectors

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave) P/N 7890</p> <p>Available in 100m, 300m or 500m rolls or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor</p> <p>P/N 8226</p> <p>Tri-metal plated</p>
 <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (™ times microwave) P/N 7890-3</p> <p>Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU600 low loss, solid conductor</p> <p>P/N 8226-2</p> <p>Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, or 500m rolls or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable</p> <p>P/N NM1250SF</p> <p>Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, or 500m rolls or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable</p> <p>P/N NM1250</p> <p>Tri-metal plated</p>

Y2650 Series

Radome enclosed directional point-to-point Yagi
MMDS & UHF 2.65 GHz



Vertical Polarisation:



Y3000-9

Radome enclosed directional point-to-point Yagi

UHF 3.4-3.6 GHz



The Y3000-9 mast mount Yagi's are specifically designed for directional point-to-point 3.4-3.6 GHz wireless data transmit and receive applications. The enclosed design ensures protection from damage or water ingress, increasing the service life.

Coaxial feeder cable, water-proofing, bird proofing, adaptors and other installation accessories are all available separately.

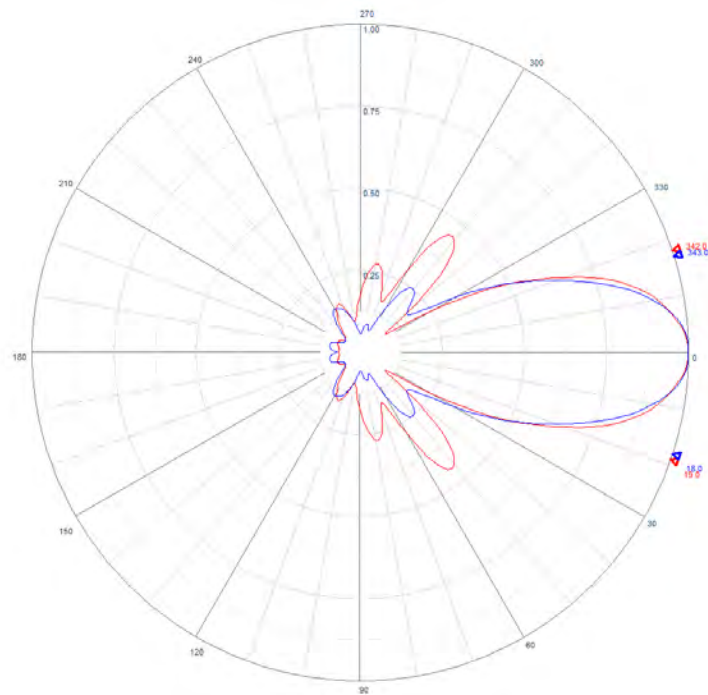
Construction	Black fibreglass radome, aluminium plate, galvanised steel mounting hardware, external coaxial cable and termination - White radome available on request
Frequency range	3.4-3.6 GHz - UHF and 5G frequency compatible
VSWR	<1.8:1 VSWR
Tuning	Factory
Number of elements	9
Gain - nominal	11.3 dBi
Maximum power	25 Watts
Impedance	50 Ohms
Polarisation	Mount horizontal or vertical as required
H Plane	35°
E Plane	35°
Front-to-back ratio	-20 dB
DC grounding	Yes
Cable	200mm RG142B/U, rear exit from plate
Connector	N-type female fitted to cable - as standard
Dimensions	300mm x 80mm
Weight	1.5kg
Projected area	0.015m ²
Wind load at 160kph	1.82kg
Mounting hardware supplied	Aluminium mount plate, 2 x galvanised steel V-blocks and 2 x 50mm diameter galvanised steel U-bolts
Installation tools required	13mm spanner for U-bolts securing



Y3000-9

Radome enclosed directional point-to-point Yagi

UHF 3.4-3.6 GHz







Example radiation pattern - Y3000-9

Y3000-9

Radome enclosed directional point-to-point Yagi

UHF 3.4-3.6 GHz

Suitable mounting hardware

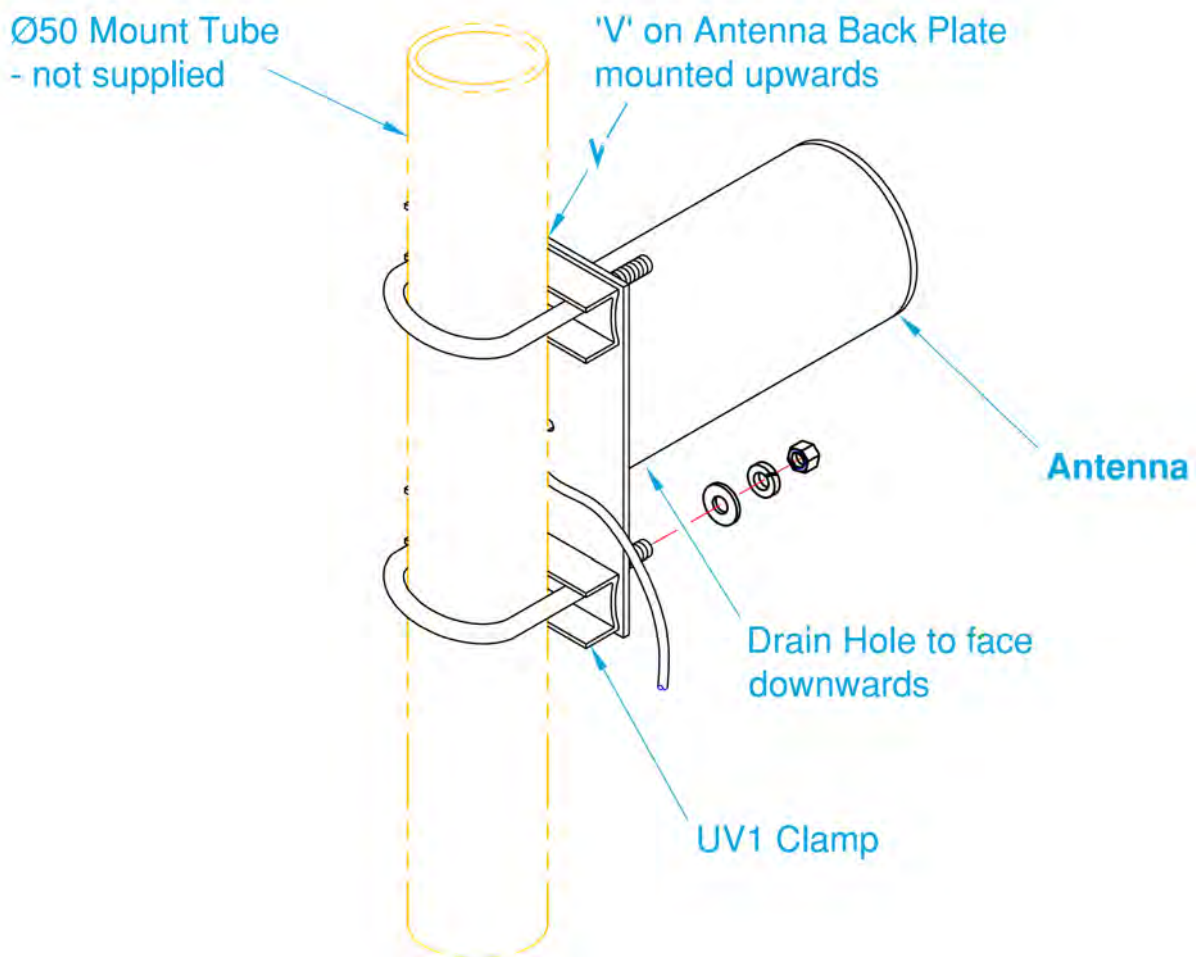
 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>
 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2307 - 6-piece aluminium & fibreglass mast - 6.68m</p> <p>Includes: insulated top, guy wires, spigots and base bracket.</p>

Suitable feeder coaxial cable and connectors

 <p>RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave) P/N 7890</p> <p>Available in 100m, 300m, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU400 low loss, solid conductor P/N 8226 Tri-metal plated</p>
 <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (™ times microwave) P/N 7890-3</p> <p>Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU600 low loss, solid conductor P/N 8226-2 Tri-metal plated</p>
 <p>1/2" super flexible helical shielded, foam dielectric coaxial cable P/N ZCG1250SF</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable P/N NM1250SF Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable P/N NM1250 Tri-metal plated</p>

Y3000-9

Radome enclosed directional point-to-point Yagi
UHF 3.4-3.6 GHz



Vertical Polarisation:

ZYUE-WX-2400D

Straight SMA terminated UHF Whip

UHF 2300-2700 MHz



The ZYUE-WX-2400D whip is a straight vertical SMA male terminated whip. Suitable in locations where a low profile and highly flexible construction are required, such as locations where contact with the antenna is highly possible.

Adaptors, patch leads, water proofing and other installation accessories are all available separately.

Construction	Black moulded whip and embedded internal termination
Frequency range	2300-2700 MHz - UHF
Bandwidth	Full frequency range stated - 400 MHz
VSWR	<1.5:1
Tuning	Factory
Gain	3 dBi
Impedance	50 Ohms
Maximum power	50 Watts
Connector	SMA male plug connector as base
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
Dimensions	100mm
Mounting	Mount onto any SMA female terminated device, base or cable termination
Mounting position recommended	As high as possible, ensure no metallic obstructions inhibit the signal direction, this will lead to reduced performance.





Z5600

Omni-directional wireless data collinear

WiFi/WLAN or Industrial, Scientific and Medical 5.2-5.8 GHz



The Z5600 is an omni-directional mast mount collinear, designed and manufactured for the telemetry monitoring or wireless data transfer within the 5.2-5.8 GHz frequency range.

Mounting hardware, coaxial feeder cable, adaptors and other installation accessories are all available separately.



Construction	Black fibreglass radome, aluminium mount section and tri-metal plated connectors
Frequency range	5.2-5.8 GHz - ISM & WiFi/WLAN compatible
Bandwidth	Full frequency range stated - 600 MHz
VSWR	<1.5:1
Tuning	Factory
Gain	5.2 dBi
Maximum power	10 Watts
Impedance - nominal	50 Ohms
DC grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional
E Plane	73°
Connector	N-type female in base of mount section, no cable
Dimensions	Height: 250mm, Diameter: 20mm
Weight	100grams
Projected area	0.003m ²
Wind load at 160kph	0.406kg, 0.004kN
Mount section	100mm x 20mm - anodised aluminium
Mounting hardware order separate	Parallel: 1 x EB1-SS or 1 x UB3-SS Right-angle: 1 x RB8/RB8-L or 1 x UB2-SS Side/wall mounting: 2 x NSM-B20M
Mounting position recommended	Mount as high on your structure, pole, mast or tower as possible using the appropriate mounting clamp/s



N-type female termination at base of mount section








Z5600

Omni-directional wireless data collinear

WiFi/WLAN or Industrial, Scientific and Medical 5.2-5.8 GHz



Suitable mounting hardware

 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>
 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>	
 <p>EB1-SS 304 stainless steel parallel clamp Boom: 20-40mm capability Mount pole: 25-45mm capability</p>	 <p>UB3-SS 304 stainless steel parallel clamp Boom: 20-32mm capability Mount pole: 20-50mm capability</p>
 <p>RB8 Galvanised steel right-angle clamp Boom: 20-40mm capability Mount pole: 20-50mm capability</p>	 <p>UB2-SS 304 stainless steel right-angle clamp Boom: 20-50mm capability Mount pole: 20-50mm capability</p>

Suitable feeder coaxial cable and connectors

 <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (™ times microwave) P/N 7890-3 Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU600 low loss, solid conductor P/N 8226-2 Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250 Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable P/N NM1250 Tri-metal plated</p>

Z5800 series

Omni-directional high gain collinear

ISM & WiFi/WLAN 5.15-5.9 GHz


In-stock
Ready to
Ship
* Signifies build to
order item

The Z5800 series are omni-directional mast mount collinear, designed and manufactured for the ISM/WiFi/WLAN 5.15-5.9GHz frequency range.

Coaxial feeder cable, adaptors, bird-proofing and other installation accessories are all available separately.




	Z5800-8	Z5800-10	Z5800-12
Construction	Black fibreglass radome, chrome mount ferrule and aluminium mount bracket		Grey fibreglass radome, and chrome ferrule and mount bracket
Frequency range	5.7-5.9 GHz - ISM & WiFi/WLAN		5.15-5.85 GHz - WiFi/WLAN
Bandwidth	Full selected frequency range		
VSWR	<1.5:1		
Tuning	Factory		
Gain - nominal	8 dBi	10 dBi	12 dBi
Maximum power	50 Watts		
Impedance - nominal	50 Ohms		
DC grounding	Yes		
Polarisation	Vertical		
H Plane	360° omnidirectional		
E Plane	20°	10°	7°
Connector	N-type female jack in base of mount section, no cable		
Height	575mm	675mm	560mm
Weight	350grams	500grams	520grams
Projected area	0.008m ²	0.009m ²	0.008m ²
Wind load at 160kph	0.933kg, 0.009kN	1.096kg, 0.011kN	0.933kg, 0.009kN
Mounting hardware supplied	Parallel mount bracket and 50mm capable U-bolt		
Mounting position recommended	Mount as high on your structure, pole, mast or tower as possible using the attached mounting clamp		
Installation tools required	13mm spanner for mount bracket U-bolt securing		



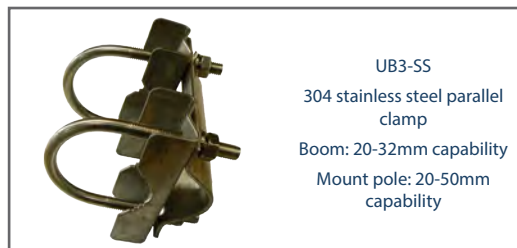
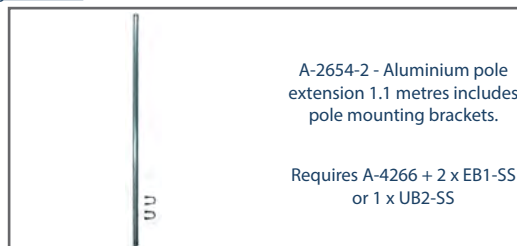
Z5800 series

Omni-directional high gain collinear

ISM & WiFi/WLAN 5.15-5.9 GHz


In-stock
Ready to
Ship
* Signifies build to
order item

Suitable mounting hardware



Suitable feeder coaxial cable and connectors





CP5800-15

End fire right-hand circular helical directional antenna

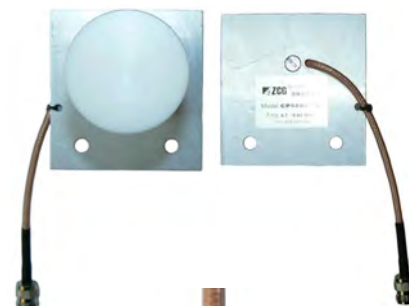
ISM & WiFi/WLAN 5.7-5.8 GHz



The CP5800-15 is a directional right-hand circular polarised, end fired helical antenna. A helically wound right-hand circular polarised antenna will reduce unwanted signal interference and reflections. The 'End Fired' design is particularly well suited for point-to-point WiFi/WLAN or data transfer.

Mounting hardware, coaxial feeder cable, adaptors and other installation accessories are all available separately.

Construction	White fibreglass radome, aluminium mount plate and external cable assembly
Frequency range	5.7-5.85 GHz - ISM & WiFi/WLAN compatible
Bandwidth	Full frequency range stated - 150 MHz
VSWR	<1.5:1
Tuning	Factory
Gain	14 dBi
Polarisation	Right-hand circular
Circularity	<2 dB
Impedance - nominal	50 Ohms
Maximum power	100 Watts
H Plane	18°
E Plane	20°
Front-to-back ratio	20 dB
DC grounding	Yes
Cable	200mm RG142 - rear exits from base of plate
Connector	N-type female fitted as standard - or specify requirements
Length	180mm
Weight	500grams
Projected area	0.008m ²
Wind load at 160kph	0.909kg, 0.009kN
Mounting hardware	1 x 50mm diameter U-bolts and V-blocks - supplied
Installation tools required	13mm or 1/2" spanner for U-bolt securing



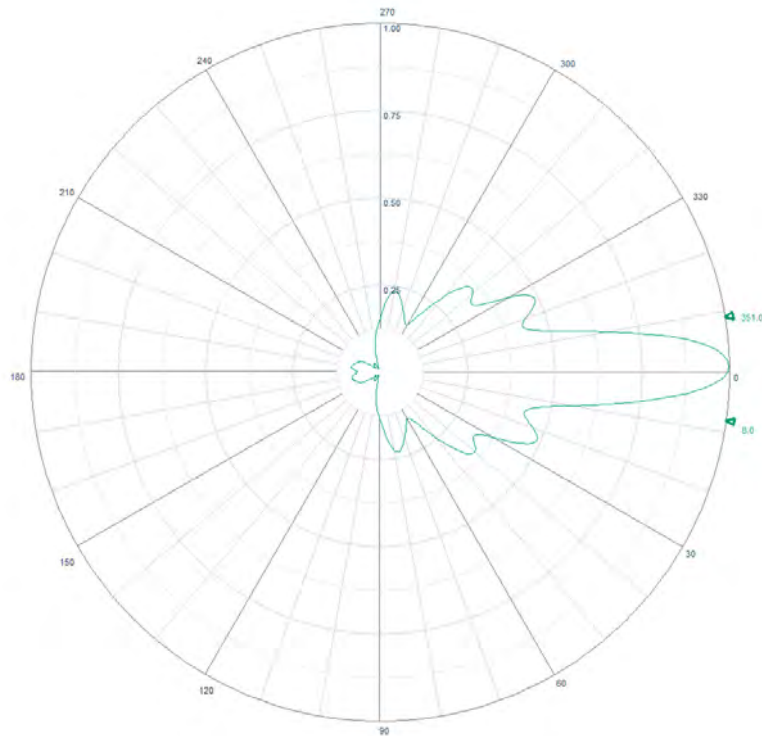
N-type female fitted as standard or specify requirements





CP5800-15

End fire right-hand circular helical directional antenna
ISM & WiFi/WLAN 5.7-5.8 GHz



Example radiation pattern




CP5800-15

End fire right-hand circular helical directional antenna

ISM & WiFi/WLAN 5.7-5.8 GHz



Suitable mounting hardware

 <p>CFB series - Galvanised steel 'J' hockey stick brackets, 1.1 - 2.1 metres.</p> <p>Requires A-4266 series + 2 x EB1-SS or 1 x UB2-SS</p>	 <p>A-2654-2 - Aluminium pole extension 1.1 metres includes pole mounting brackets.</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>
 <p>SFB Series - galvanised steel pole extension 0.9-2.0 metres Roof or overhang mounting</p> <p>Requires A-4266 + 2 x EB1-SS or 1 x UB2-SS</p>	

Suitable feeder coaxial cable and connectors

 <p>RU600 Solid copper conductor, low loss coaxial cable LMR-600™ equivalent (™ times microwave)</p> <p>P/N 7890-3</p> <p>Available in 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male crimp connector for RU600 low loss, solid conductor</p> <p>P/N 8226-2</p> <p>Tri-metal plated</p>
 <p>1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250</p> <p>Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable</p> <p>P/N NM1250</p> <p>Tri-metal plated</p>



GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

Page 1 of 5



The GCRFA low profile all-in-one antenna will improve mobile phone/ wireless data, L1 GPS and WiFi/WLAN reception, including 4G LTE and dualband 4G/3G.

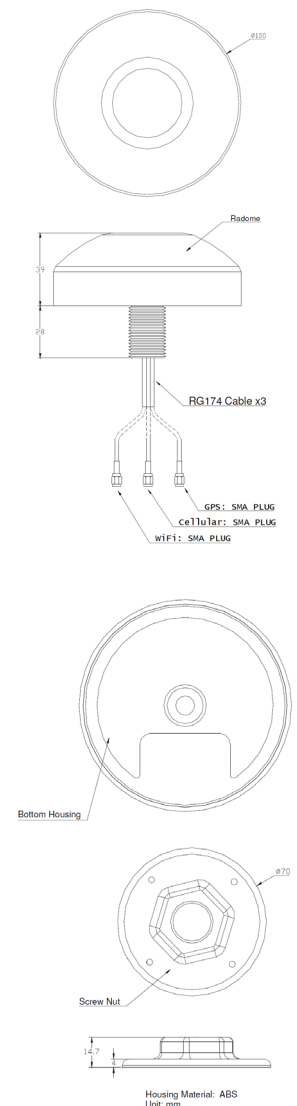
The GCRFA is suitable for mobile or fixed position installations for all environments, with the internal enclosed inside a robust ABS enclosure.

Mounting hardware, adaptors and other installation accessories are all available separately.



Construction	White ABS polycarbonate enclosure,		
Mobile phone coverage	698-800 MHz, 824-960 MHz & 1710-2170 MHz - 4G LTE, 4G/3G		
GPS frequency	1575.42 MHz - L1 GPS		
WiFi ability	2.4-2.5 GHz & 4.7-5.9 GHz - WiFi/WLAN		
Tuning	Factory		
VSWR	Cellular: 3.0:1	L1 GPS: 1.5:1	WiFi 2.4: 2.0:1 WiFi 5.8: 3.0:1
Impedance	50 Ohms		
H Plane	360° omnidirectional		
Weight	280grams		
Dimensions	Diameter: 100mm, Height: 39mm, Thread length: 28mm		
Cable	3 x 5 metre RG174/U		
Connector - fitted	3 x SMA male or specify		
Mounting requirements	Any bracket or flat surface with 20mm hole using cream ABS nut and attached rubber gasket supplied		
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 20mm hole or bracket with 20mm hole.		
Alternate models	GCRFA-10 - GCRFA with 10m cable lengths , specify terminations GCRFA-GP - GCRFA with 102mm diameter ground plane for non metallic mounting such as fibreglass or plastic.		
Installation tools required	20mm spanner for nut securing		
RoHS compliant	Yes		
Waterproof rating	IP56		

[Detailed specifications on next page...](#)





GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

Page 2 of 5



GPS active patch antenna

Frequency coverage	L1 GPS 1575.42 MHz \pm 3 MHz				
VSWR	1.5:1 - maximum				
Bandwidth	20 MHz min. at -10dB				
Gain coverage	-4dBic at -90°C 90°(over 75% volume)				
Polarisation	Right-hand circular polarised - RHCP				
Amplifier module	Amplifier gain without cable	Noise Figure	Output VSWR	DC voltage	DC current
	27dB - typical	1.8dB - typical	2.0:1 - maximum	DC 2.7V to 6.0V	8.5 \pm 4.5mA

LTE, 4G/3G Cellular module

Frequency		696-800 MHz	824-960 MHz	1710-1990 MHz	1990-2170 MHz
VSWR - maximum		3.0:1	3.0:1	3.0:1	3.0:1
Average gain	With GP*	-1.5 dBi	-2.33 dBi	-1.86 dBi	-1.52 dBi
	Without GP	-2.15 dBi	-3.33 dBi	-2.75 dBi	-2.07 dBi
Average Efficiency	With GP*	71.07%	61.60%	65.36%	70.87%
	Without GP	61.36%	48.47%	53.23%	62.58%
Peak gain	With GP*	3.79 dBi	4.11 dBi	4.94 dBi	5.91 dBi
	Without GP	3.74 dBi	3.61 dBi	2.34 dBi	4.21 dBi

WiFi module

Frequency		2.4-2.5 GHz	4.7-5.0 GHz	5.0-5.4 GHz	5.4-5.9 GHz
VSWR		2.4-2.5 GHz - 2.0:1		4.7-5.9 GHz - 3.0:1	
Impedance		50 Ohms			
Polarisation		Omnidirectional - Linear			
Power handling		25 Watts			
Average gain	With GP*	-2.15 dBi	-4.63 dBi	-3.76 dBi	-3.34 dBi
	Without GP	-2.70 dBi	-5.16 dBi	-4.31 dBi	-3.71 dBi
Average Efficiency	With GP*	61.07%	35.27%	42.87%	47.69%
	Without GP	53.88%	31.13%	37.53%	43.67%
Peak gain	With GP*	2.49 dBi	6.31 dBi	6.28 dBi	6.38 dBi
	Without GP	1.19 dBi	5.63 dBi	5.79 dBi	6.22 dBi

GP = Ground Plane
* ground plane dimensions 400mm x 400mm

Improved
Product

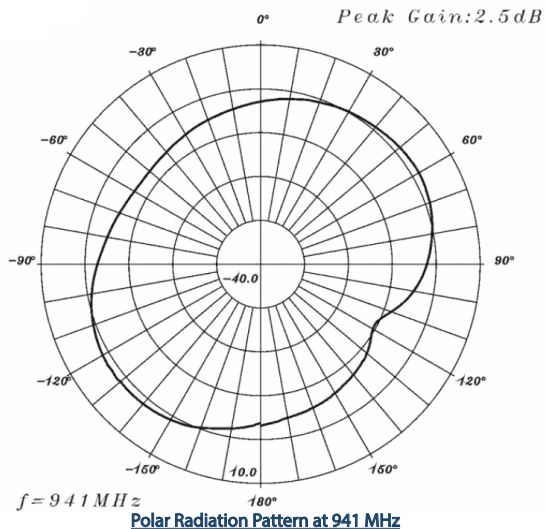
GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

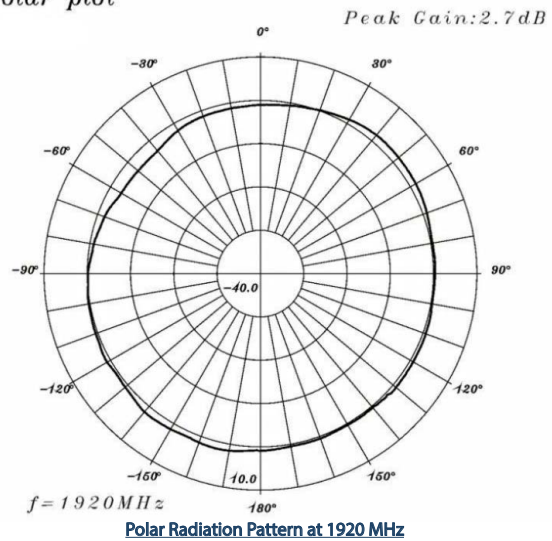
Page 3 of 5


In-stock
Ready to
Ship

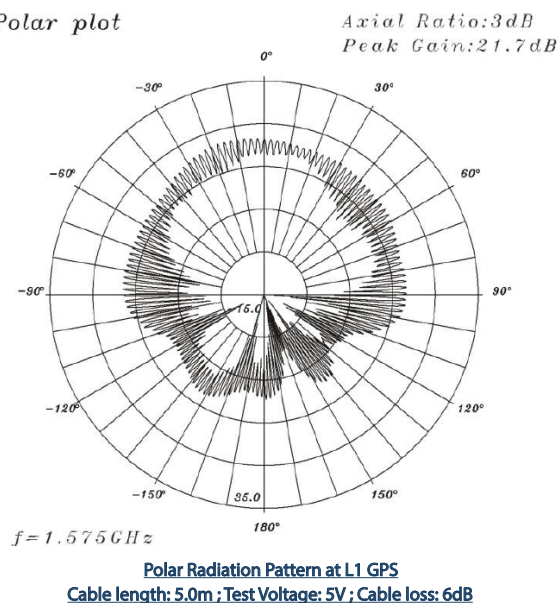
Polar plot



Polar plot



Polar plot



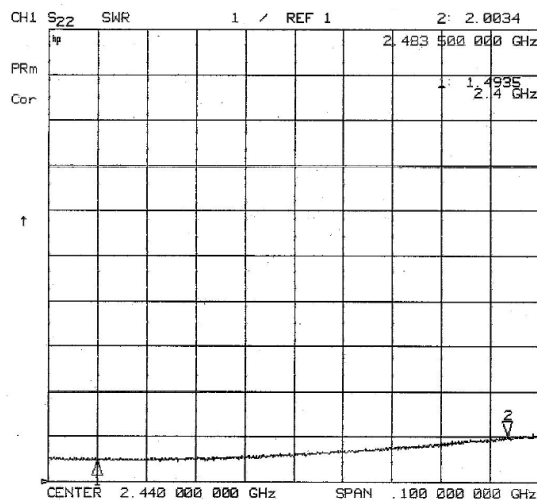
Improved
Product

GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

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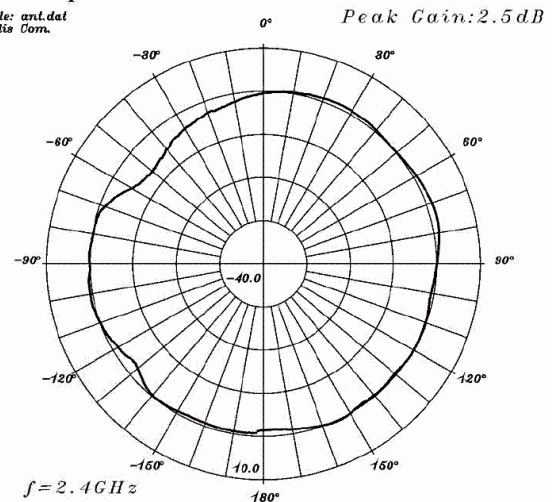
 In-stock
Ready to
Ship



VSWR plot and Polar Radiation Pattern at 2.4 - 2.4835 GHz

Polar plot

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Improved
Product

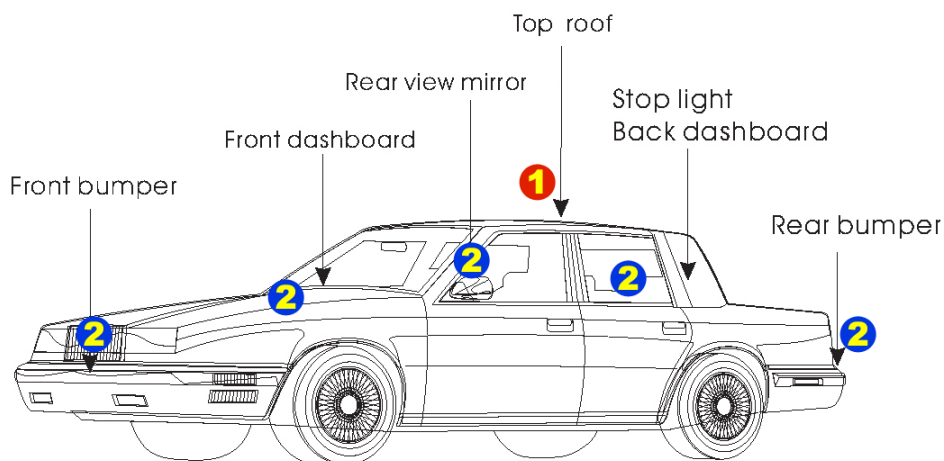
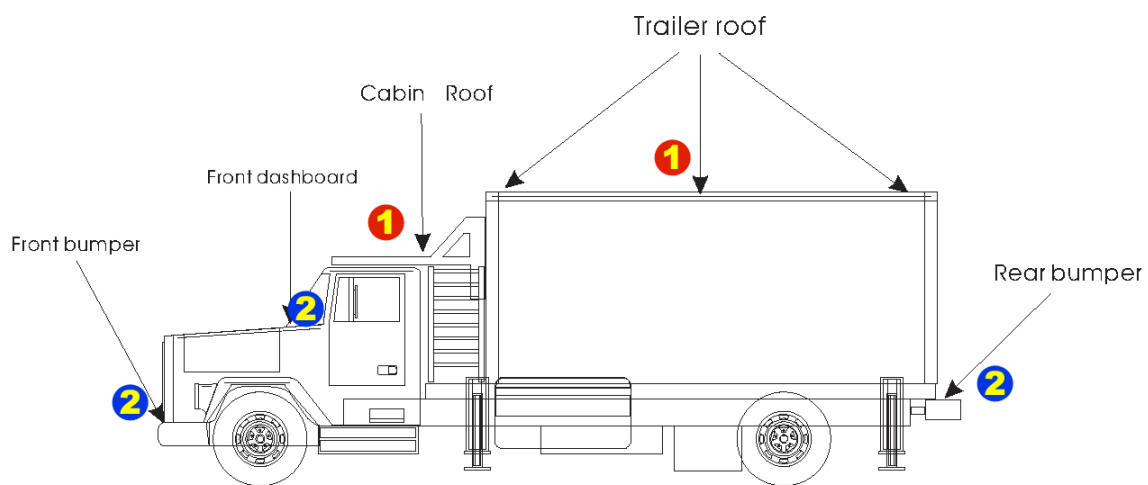
GCRFA

Mobile phone / Wireless data / WiFi and L1 GPS

Page 5 of 5


In-stock
Ready to
Ship

1 indicates an ideal location for best omnidirectional performance



ZCG-EEH-201

Broadband fixed cable low profile antenna
Dualband WiFi/WLAN 2.4-2.485 GHz & 5.15-5.85 GHz



The ZCG-EEH-201 fixed cable low profile antenna will improve WiFi coverage reception and transmission range. Being an enclosed unit, the internals are weatherproofed to IP67 ratings to ensure a long service life.

Unique specifications for the ZCG-EEH-201 are:

- WiFi data communication
- Dual band at both 2.4 and 5.8 GHz
- Rugged and waterproof design
- Ground independent

Adaptors, coaxial cable, connectors and other installation accessories are all available separately.



Construction	Black ASA radome, chrome fittings and cable assembly
Frequency range	2.4-2.485 GHz and 5.15-5.85 GHz IEEE.802.11b/g/n/ WiFi/WLAN, Bluetooth, ISM2.4 & ISM5.8
Bandwidth	Full frequency ranges stated
VSWR	<2.0:1
Tuning	Factory
Gain	2.4 GHz: 4.0 dBi - peak 5.85 GHz: 0.97 dBi - peak
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Linear, Vertical
Cable	3m x RG58 bottom exit - or specify length requirements
Connector	No connector fitted as standard, specify when ordering
Operating temperature	-40°C to +80°C
Storage temperature	-40°C to +85°C
Dimensions	Diameter: 41.5mm, Height: 78.4mm
Weight	85grams
Mounting hardware	10.5mm mounting thread, rubber gasket, washer and nut supplied
Installation tools required	19mm spanner for nut securing
Rating	IP67 / RoHS compliant



Cable exits through mounting thread



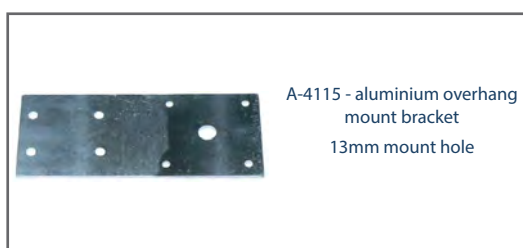
Rubber gasket and mounting hardware supplied

ZCG-EEH-201

Broadband fixed cable low profile antenna
Dualband WiFi/WLAN 2.4-2.485 GHz & 5.15-5.85 GHz



Recommended installation accessories



Typical connectors/terminations



ZCG-MIMO-6

Multiple In, Multiple Out 6-port Dome Collinear
Dualband WiFi/WLAN 2.4-2.5 GHz & 5.15-5.85 GHz


In-stock
Ready to
Ship

The ZCG-MIMO-6 6-port radome enclosed multiple in, multiple out (M.I.M.O) collinear will improve WiFi/WLAN range in external or internal locations.

Unique specifications for the ZCG-MIMO-6 are:

- Dual band at both 2.4 and 5.8GHz
- 6-port terminations - 3 for 2.4GHz and 3 for 5.8GHz
- Ground independent
- Supplied, attached mounting hardware

Adaptors, coaxial cable, connectors and other installation accessories are all available separately.



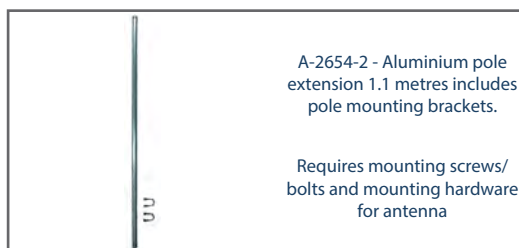
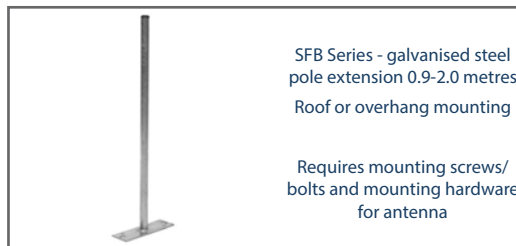
6 port N-type females in base of antenna

Construction	White radome, chrome terminations and anodised aluminium mounting hardware
Frequency range	2.4-2.485 GHz and 5.15-5.85 GHz - ISM & WiFi/WLAN - M.I.M.O.
Bandwidth	Full frequency ranges stated
VSWR	<1.8:1
Tuning	Factory
Gain	7dBi peak
Maximum power	100 Watts per port
Impedance	50 Ohms
Polarisation	Linear, Vertical
Connector	6 x N-type females, 3 per frequency range - M.I.M.O.
Operating temperature	-40°C to +80°C
Storage temperature	-40°C to +85°C
Dimensions	Height: 340mm, Diameter: 150mm - excl. mounting
Weight	1.3kg
Mounting hardware supplied	120mm stand-off mounting bracket with 2 x 50mm capable U-bolts and V-blocks at base of antenna
Mounting positions recommended	Mount as high on your tower, structure or pole as possible to ensure
Installation tools required	Phillips head/star screw driver for bracket to antenna securing 13mm spanner for U-bolt bracket securing

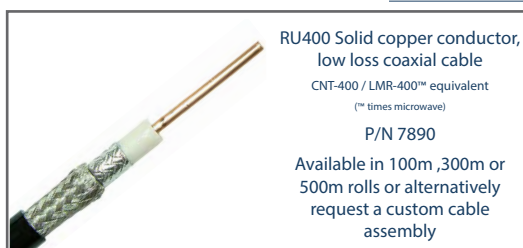
ZCG-MIMO-6

Multiple In, Multiple Out 6-port Dome Collinear
Dualband WiFi/WLAN 2.4-2.5 GHz & 5.15-5.85 GHz


In-stock
Ready to
Ship



Suitable feeder coaxial cable and connectors



5.8GHz M.I.M.O. panel

Broadband Vertical and Horizontal polarised panel

WiFi/WLAN 5.15-5.875 GHz



These wireless data panels are available in vertical polarisation suitable for 5.8 GHz data links within the 5.1-5.875 GHz frequency range. The low profile design allows for reduced space requirements and reduced wind-loading.



Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.

	ZMP-1658-120DP	ZMP-1958-120DP
Construction	UV protected ABS radome, aluminium back screen and adjustable mounting bracket	
Frequency range	5.15-5.875 GHz - WiFi/WLAN M.I.M.O.	
Bandwidth	Full frequency range stated	
VSWR	1.5:1 typical, 2.0:1 max.	
Tuning	Factory	
Gain - nominal	16 dBi	19 dBi
Polarisation	Vertical and Horizontal	
Maximum power	50 Watts	
Front-to-back ratio	>25dB	
Isolation	>30dB	
Impedance	50 Ohms	
H Plane at -6dB	120°	
E Plane at -6dB	8°	4°
Connector	2 x reverse polarisation SMA female rear exit from panel	
Panel dimensions	Height: 380mm Width: 150mm Depth: 20mm	Height: 740mm Width: 150mm Depth: 20mm
Wind load at 160kph	Front: 0.068kN, 6.904kg Side: 0.009kN, 0.921kg	Front: 0.132kN, 13.446kg Side: 0.018kN, 1.793kg
Weight	1.0kg	3.0kg
Operating temperature	-50°C to +70°C	
Mechanical tilt capability	-10° to +3°	
Mounting	Adjustable bracket on rear of panel with 30-80mm capability	



ZMP-1658-120DP



ZMP-1958-120DP

5.8GHz dual polarised panel

M.I.M.O Vertical and horizontally polarised

WiFi/WLAN 5.15-5.88GHz



These 5.8GHz M.I.M.O panels are available with vertical and horizontal polarisation suitable for 5.15-5.88GHz wireless data improvement. The low profile design allows for reduced space requirements and reduced wind loading.



Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.

	ZMP-2358-DP	ZMP-2358RF-DP	ZMP-2558-DP
Construction	UV protected ABS radome, aluminium base plate and chrome termination		
Frequency range	5.15-5.88 GHz - WiFi/WLAN M.I.M.O.		
Bandwidth	Full frequency range stated - 730 MHz		
VSWR	<2.0:1		
Tuning	Factory		
Gain - nominal	23 dBi - each plane		25 dBi - each plane
Polarisation	Vertical and horizontal		
Maximum power	50 Watts		
Front-to-back ratio	>25dB		>28dB
Isolation	>35dB		
Impedance	50 Ohms		
H Plane	12°		8°
E Plane	12°		8°
Connector	2 x N-type female on rear of panel	2 x RP SMA female on rear of panel	
Panel dimensions	Height: 330mm Width: 330mm Depth: 25mm	Height: 320mm Width: 320mm Depth: 75mm	Height: 420mm Width: 320mm Depth: 65mm
Wind load at 160kph	Front: 0.129kN, 13.191kg Side: 0.010kN, 0.999kg	Front: 0.122kN, 12.404kg Side: 0.028kN, 2.907kg	Front: 0.160kN, 16.280kg Side: 0.032kN, 3.307kg
Weight	2.5kg	3.5kg	3.0kg
Mounting	Adjustable mounting brackets on rear of panel 30-50mm capability		



[More models on following page.](#)

5.8GHz dual polarised panel

M.I.M.O Vertical and horizontally polarised

WiFi/WLAN 5.15-5.88 GHz



These 5.8GHz M.I.M.O panels are available with vertical and horizontal polarisation suitable for 5.15-5.88 GHz wireless data improvement. The low profile design allows for reduced space requirements and reduced wind loading.



Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.

	ZMP-2558C-DP	ZMP-2558CF-DP
Construction	UV protected ABS radome, aluminium base plate and chrome termination	
Frequency range	5.15-5.85 GHz - WiFi/WLAN M.I.M.O	
Bandwidth	Full frequency range stated	
VSWR	Typical 1.5:1, max. 2.0:1	
Tuning	Factory	
Gain - nominal	25 dBi - each plane	
Polarisation	Vertical and horizontal	
Maximum power	50 Watts	
Front-to-back ratio	>28dB	
Isolation	>38dB	
Impedance	50 Ohms	
H Plane	8°	11°
E Plane	8°	11°
Connector	2 x N-type female on rear of panel	2 x RP SMA female on rear of panel - inside enclosure
Panel dimensions	Height: 371mm, Width: 371mm, Depth: 45mm	
Wind load at 160kph	Front: 0.163kN, 16.673kg, Side: 0.020kN, 2.022kg	
Weight	2.5kg	4.3kg
Mounting	Adjustable mounting brackets on rear of panel 30-50mm capability	Adjustable mounting brackets on rear of panel enclosure 30-50mm capability



4x4 M.I.M.O. panels

Cross, vertical and horizontal polarised dualband panels

WiFi/WLAN 2.3-2.7 GHz and 4.9-5.9 GHz



The ZMP-172458 series of directional panels are available in either slant or vertical and horizontal polarised configurations. All of the models come supplied with an adjustable/tilt mounting hardware for ease of installation.

Coaxial cable, connectors, filtering and other installation accessories are all available separately.



	ZMP-172458-90XXP		ZMP-172458-90V2H2	
Construction	UV protected ABS radome, aluminium back screen and adjustable mounting bracket			
Frequency range	2.3-2.7 GHz and 4.9-5.9 GHz - dualband WiFi/WLAN & ISM compatible			
Bandwidth	Full frequency ranges stated			
VSWR	1.5:1 - typical			
Tuning	Factory			
Gain - nominal	2.3-2.7 GHz: 14 dBi	4.9-5.9 GHz: 17 dBi	2.3-2.7 GHz: 17 dBi	4.9-5.9 GHz: 20 dBi
Polarisation	2.3-2.7 GHz: ±45°	4.9-5.9 GHz: ±45°	2.3-2.7 GHz: V and H	4.9-5.9 GHz: V and H
Port-to-port isolation	20dB - typical			
Cross pol-isolation	20dB - typical			
Front-to-back ratio	-25dB - typical			
Mechanical tilt	-28° to +12°		-10° to +3°	
Maximum power	20 Watts			
Impedance	50 Ohms			
H Plane at -3dB	90° - both freq.			
E Plane at -3dB	16° at 2.3-2.7 GHz	7° at 4.9-5.9 GHz	8° at 2.3-2.7 GHz	4° at 4.9-5.9 GHz
Connector	2 x N-type female rear exit panel		4 x N-type female rear exit panel	
DC grounding	Yes			
Panel dimensions	Height: 380mm, Width: 260mm, Depth: 25mm		Height: 700mm, Width: 260mm, Depth: 25mm	
Weight	3.0kg		5.0kg	
Working temperature range	-45°C to + 65°C			
Wind load 160kph	Front: 11.968kg, 0.117kN Side: 1.151kg, 0.011kN			
Mounting capability	30-70mm diameter			



ZMP-172458-90XXP



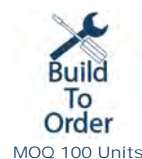
ZMP-172458-90V2H2

More models on following page...

4x4 M.I.M.O. panels

Cross, vertical and horizontal polarised dualband panels

WiFi/WLAN 2.3-2.7 GHz and 4.9-5.9 GHz



The ZMP-172458 series of directional panels are available in either slant or vertical and horizontal polarised configurations. All of the models come supplied with an adjustable/tilt mounting hardware for ease of installation.

Coaxial cable, connectors, filtering and other installation accessories are all available separately.



	ZMP-172458-90VHXP		ZMP-172458-90XPVH	
Construction	UV protected ABS radome, aluminium back screen and adjustable mounting bracket			
Frequency range	2.3-2.7 GHz and 4.9-5.9 GHz - dualband WiFi/WLAN & ISM compatible			
Bandwidth	Full frequency ranges stated			
VSWR	1.5:1 - typical			
Tuning	Factory			
Gain - nominal	2.3-2.7 GHz: 17 dBi & 4.9-5.9 GHz: 20 dBi			
Polarisation	2.3-2.7 GHz: V and H	4.9-5.9 GHz: ±45°	2.3-2.7 GHz: ±45°	4.9-5.9 GHz: V and H
Port-to-port isolation	20dB - typical			
Cross pol-isolation	20dB - typical			
Front-to-back ratio	-25dB - typical			
Mechanical tilt	-10° to +3°			
Maximum power	20 Watts			
Impedance	50 Ohms			
H Plane at -3dB	90° - both freq.			
E Plane at -3dB	8° at 2.3-2.7 GHz & 4° at 4.9-5.9 GHz			
Connector	4 x N-type female rear exit panel			
DC grounding	Yes			
Panel dimensions	Height: 700mm, Width: 260mm, Depth: 25mm			
Weight	5.0kg			
Working temperature range	-45°C to + 65°C			
Wind load 160kph	Front: 11.968kg, 0.117kN Side: 1.151kg, 0.011kN			
Mounting capability	30-70mm diameter			



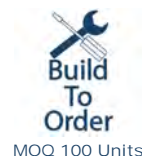
ZMP-172458-90VHXP



ZMP-172458-90V2H2

4x4 M.I.M.O. 90° panels

Dualband WiFi/WLAN cross, vertical and horizontal polarised
ISM & WiFi/WLAN 2.3-2.7 GHz and 4.9-5.9 GHz



The ZMP-202458-90 series of directional panels come in either slant, vertical and horizontal polarised configurations. All of the models come fitted with an adjustable tilt mounting bracket for ease of installation.

Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.



	ZMP-202458-90XXP	ZMP-202458-90V2H2
Construction	UV protected ABS radome, aluminium back screen and adjustable mounting bracket	
Frequency range	2.3-2.7 GHz and 4.9-5.9 GHz - dualband ISM & WiFi/WLAN - M.I.M.O	
Bandwidth	Full frequency ranges stated	
VSWR	1.5:1 - typical	
Tuning	Factory	
Gain - nominal	2.3-2.7 GHz: 17 dBi & 4.9-5.9 GHz: 20 dBi	
Polarisation	2.3-2.7 GHz: $\pm 45^\circ$ 4.9-5.9 GHz: $\pm 45^\circ$	2.3-2.7 GHz: V and H 4.9-5.9 GHz: V and H
Port-to-port isolation	20dB - typical	
Cross pol-isolation	20dB - typical	
Front-to-back ratio	-25dB - typical	
Mechanical downtilt	-10° to +3°	
Maximum power	20 Watts	
Impedance	50 Ohms	
H Plane at -3dB	90° - both freq.	
E Plane at -3dB	8° at 2.3-2.7GHz 4° at 4.9-5.9GHz	
Connector	4 x N-type female rear exit panel	
DC grounding	Yes	
Panel dimensions	Height: 700mm, Width: 260mm, Depth: 25mm	
Weight	5.0kg	
Working temperature range	-45°C to + 65°C	
Wind load 160kph	Front: 22.046kg, 0.216kN, Side: 2.12kg, 0.021kN	
Mounting capability	30-70mm diameter	



ZMP-202458-90XXP

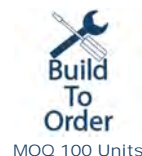


ZMP-202458-90V2H2

More models on following page...

4x4 M.I.M.O. 90° panels

Dualband WiFi/WLAN cross, vertical and horizontal polarised
ISM & WiFi/WLAN 2.3-2.7 GHz and 4.9-5.9 GHz



The ZMP-202458-90 series of directional panels come in either slant, vertical and horizontal polarised configurations. All of the models come fitted with an adjustable tilt mounting bracket for ease of installation.

Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.



	ZMP-202458-90VHXP	ZMP-202458-90XPVH
Construction	UV protected ABS radome, aluminium back screen and adjustable mounting bracket	
Frequency range	2.3-2.7 GHz and 4.9-5.9 GHz - dualband ISM & WiFi/WLAN - M.I.M.O	
Bandwidth	Full frequency ranges stated	
VSWR	1.5:1 - typical	
Tuning	Factory	
Gain - nominal	2.3-2.7 GHz: 17 dBi & 4.9-5.9 GHz: 20 dBi	
Polarisation	2.3-2.7 GHz: V and H 4.9-5.9 GHz: $\pm 45^\circ$	2.3-2.7 GHz: $\pm 45^\circ$ 4.9-5.9 GHz: V and H
Port-to-port isolation	20dB - typical	
Cross pol-isolation	20dB - typical	
Front-to-back ratio	-25dB - typical	
Mechanical downtilt	-10° to +3°	
Maximum power	20 Watts	
Impedance	50 Ohms	
H Plane at -3dB	90° - both freq.	
E Plane at -3dB	8° at 2.3-2.7 GHz 4° at 4.9-5.9 GHz	
Connector	4 x N-type female rear exit panel	
DC grounding	Yes	
Panel dimensions	Height: 700mm, Width: 260mm, Depth: 25mm	
Weight	5.0kg	
Working temperature range	-45°C to + 65°C	
Wind load 160kph	Front: 22.046kg, 0.216kN Side: 2.12kg, 0.021kN	
Mounting capability	30-70mm diameter	



ZMP-202458-90VHXP



ZMP-202458-90XPVH

ZMD-4958-DP

Dual polarised M.I.M.O. solid rear screen dish with radome

WiFi/WLAN/ UHF 4.95-5.85 GHz



The ZMD-4958-DP is suitable for high directivity, point-to-point links utilising the 4950-5850MHz frequency range. Suitable for either structure, pole or tower mounting depending on your requirements.

Coaxial feeder cable, connectors and other installation accessories are all available separately.

Construction	Solid powdercoated aluminium rear screen, internal radiating horn and protective front radome
Frequency range	4.95-5.85 GHz - UHF, ISM & WiFi/WLAN compatible
Bandwidth	Full frequency range stated - 900 MHz
VSWR	Typical 1.5:1 - max. 2.0:1
Tuning	Factory
Gain - nominal	30 dBi
Polarisation	Vertical and horizontal
Front-to-back ratio	>40dB
Isolation	>35dB
Maximum power	50 Watts - per port
DC Grounding	Yes
Impedance	50 Ohms
H Plane	5°
E Plane	5°
Connector	2 x N-type female fitted to cable as standard. Reverse polarity SMA female available on request
Dish diameter	600mm
Projected area	0.230m ²
Wind load at 160kph	0.273kN, 27.860kg
Weight	8.0kg
Operating temperature	-55°C to +70°C
Operating humidity	≤95%
Mounting	Adjustable mechanical tilt brackets on rear of dish with 30-50mm pole capability



5.8GHz wireless data panel

Vertical polarised

ISM & WiFi/WLAN 5.1-5.8325 GHz



These wireless data panels are available in vertical polarisation suitable for 5.8GHz data links within the 5.1-5.8325 GHz frequency range. The low profile design allows for reduced space requirements.

Coaxial cable, connectors, adaptors, filters, multicoupling and other installation accessories are all available separately.



	ZP-1658-104	ZP-1958-103	ZP-1958-101
Construction	UV protected ABS radome, zinc alloy mount and chrome termination		
Frequency range	5.1-5.8325 GHz - ISM & WiFi/WLAN compatible		
Bandwidth	Full frequency range stated - 732.5 MHz		
VSWR	<2.0:1		
Tuning	Factory		
Gain - nominal	16 dBi	19 dBi	23 dBi
Polarisation	Vertical - linear		
Maximum power	10 Watts		5 Watts
Impedance	50 Ohms		
H Plane	28.4°	18°	9°
E Plane	31.2°	14.9°	9°
Connector	N-type female bottom exit from panel	N-type female on rear of panel	
Panel dimensions	Height: 142mm Width: 160.5mm Depth: 82mm	Height: 236mm Width: 236mm Depth: 18mm	Height: 320mm Width: 320mm Depth: 18mm
Wind load at 160kph	Front: 0.027kN, 2.761kg Side: 0.014kN, 1.410kg	Front: 0.066kN, 6.747kg Side: 0.005kN, 0.515kg	Front: 0.112kN, 12.404kg Side: 0.007kN, 0.698kg
Weight	330grams	790grams	1.2kg
Operating temperature	-30°C to +60°C		-40°C to +80°C
Mounting	Zinc alloy adjustable bracket on rear of panel		



ZP-1658-104



ZP-1658-103



ZP-1658-101



WH series

Interior low profile data link whip

ISM 2.4 & WiFi/WLAN 2.4 GHz or ISM5.8 & WiFi/WLAN 5.8 GHz



The WH series are specifically designed for internal use on low power data link devices operating in the WiFi/WLAN Industrial, Scientific and Medical ISM2.4 or ISM5.8 range.

The WH series suit any device with a protruding SMA female connector. The small profile of this antenna allows for it to covertly be installed with minimal visual impact.

Coaxial feeder cable, adaptors and other installation accessories are all available separately.



	WH2400-2	WH2400-3	WH5800-2-R
Construction	Black UV resistant PVC and brass		
Frequency range	ISM2.4/WiFi/WLAN 2.4 GHz	WiFi/WLAN 2.4835 GHz	ISM5.8/WiFi/WLAN 5.8 GHz
VSWR	<1.5:1		
Tuning	Factory		
Gain	2.1 dBi		
Polarisation	Vertical		
Maximum power	5 Watts		
Impedance - nominal	50 Ohms		
H Plane	360° omnidirectional		
Connector	SMA male plug, gold plated as base		
Height	70mm	85mm	73mm
Weight	9grams	15grams	4grams
Mounting	Onto any device or cable with SMA female termination		
Mounting position recommended	Mount as high on your device or hand-held device as possible, if mounting inside structure ensure no metallic obstructions impede signal path.		



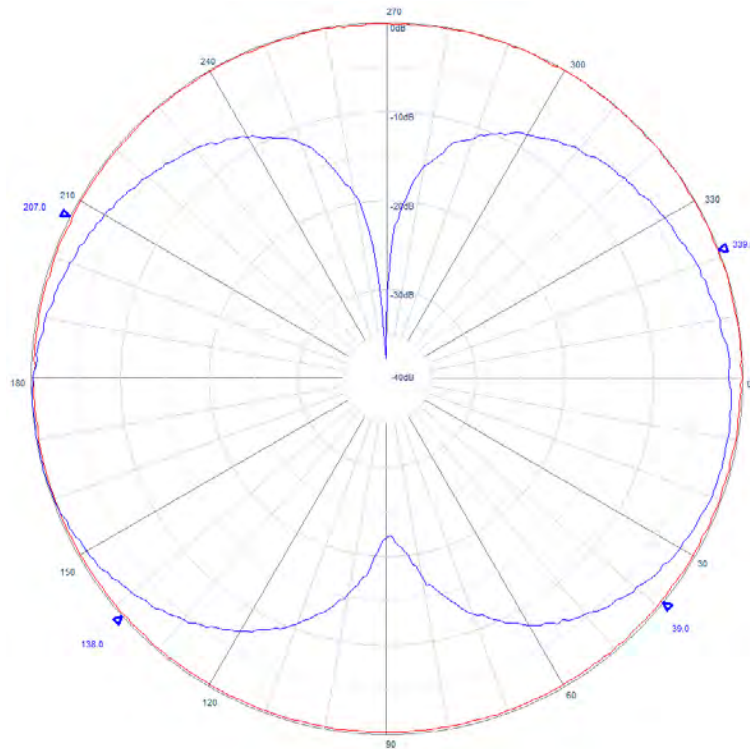
SMA male termination as base of whip



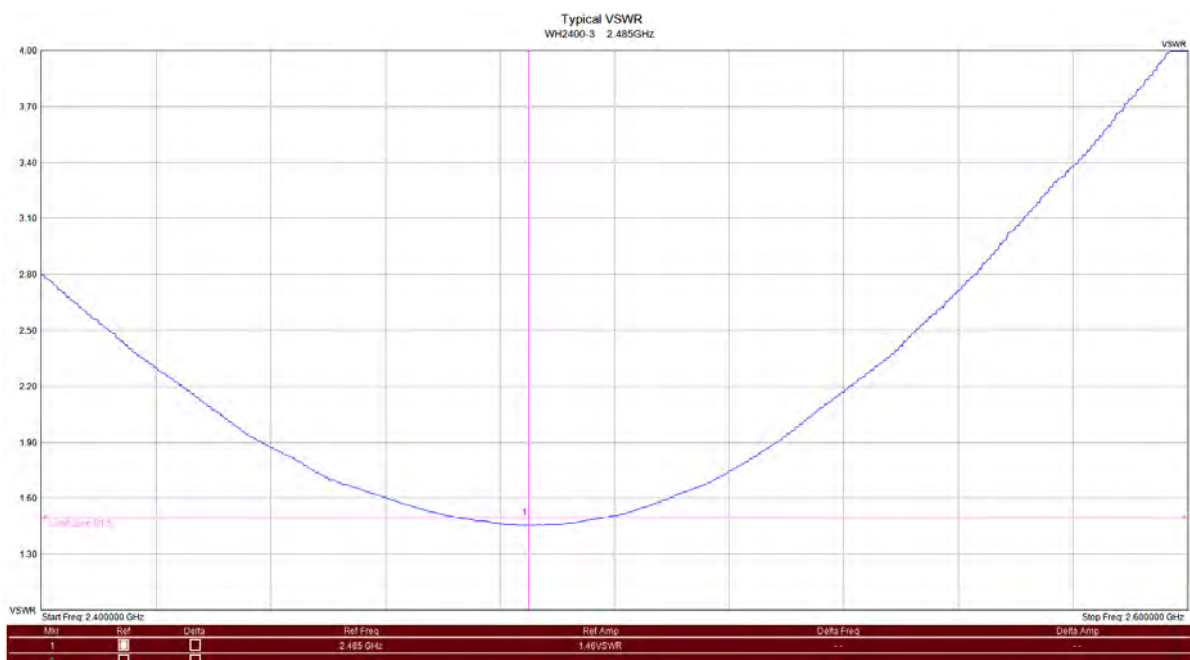
WH series

Interior low profile data link whip

ISM 2.4 & WiFi/WLAN 2.4 GHz or ISM5.8 & WiFi/WLAN 5.8 GHz



Example radiation pattern



Typical VSWR - WH2400-3 at 2.485GHz

Accessories

Stainless Steel & Black Nylon Cable Ties

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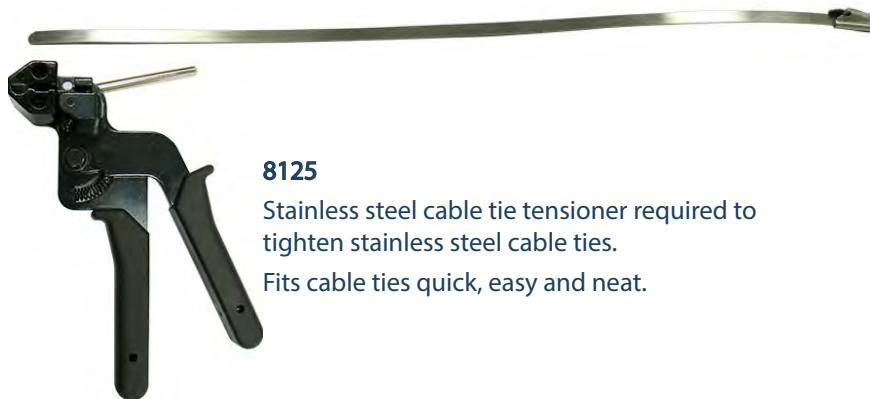


Cable ties, either Stainless Steel or Black nylon are a crucial accessories for any antenna installation.

PVC tape, amalgamation tape, grommets and other installation accessories are all available separately.

Stainless Steel cable ties

8117	Bag of 100, 316 Grade, 360mm long x 4.6mm
8117-2	Bag of 100, 316 grade, 200mm long x 4.6mm
8117-4	Bag of 100, 316 grade, 450mm long x 4.6mm
8117-5	Bag of 100, 316 grade, 600mm long x 4.6mm
8117-6	Bag of 100, 316 grade, 300mm long x 7.94mm
8117-7	Bag of 100, 316 grade, 500mm long x 7.94mm



8125

Stainless steel cable tie tensioner required to tighten stainless steel cable ties.

Fits cable ties quick, easy and neat.

Black Nylon cable ties

8528-1	Bag of 100, 100mm long x 3mm width
8529	Bag of 100, 200mm long x 5mm width
8530	Bag of 100, 300mm long x 5mm width
8530-2	Bag of 100, 450mm long x 9mm width



Accessories

Water-proofing

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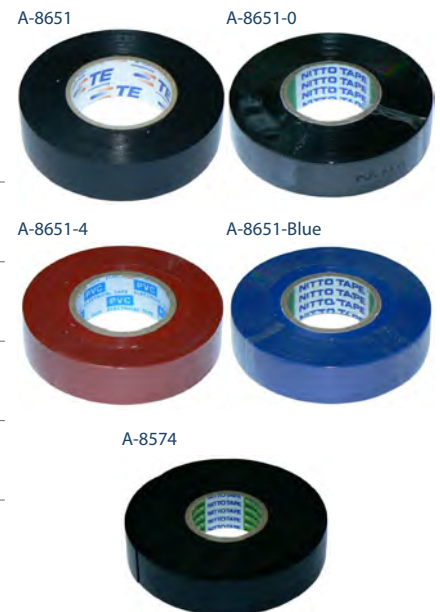


Water-proofing is an crucial step in any antenna installation whether it's a vehicle mount, marine, fixed position or broadcast, correct water-proofing can lengthen the life of your antenna system.

Consult ZCG's installation guides or ZCG's sales team for advice on correct water-proofing for your requirements.

Adhesive waterproofing tape

A-8651	PVC electrical insulating tape, black, flame retardant, 19mm wide x 0.18mm thick, 20 metre roll
A-8651-0	PVC electrical insulating tape, black, 19mm wide x 0.18mm thick, 20 metre roll - Nitto brand
A-8651-4	PVC electrical insulating tape, red, flame retardant, 19mm wide x 0.18mm thick, 20 metre roll
A-8651-Blue	PVC electrical insulating tape, blue, 19mm wide x 0.18mm thick, 20 metre roll - Nitto brand
A-8574	Self-bonding amalgamating electrical tape, 20mm wide x 0.76mm thick, 10m roll - Nitto brand



UV rated sealing cable gland

8485	Black PVC, UV rated, M16 thread, 5-10mm capability
8485-2	Black PVC, UV rated, M25 thread, 11-17mm capability - IP68
8485-5	Black PVC, UV rated, M40 thread suitable for 7/8" cable - IP68
8485-6	Black PVC, UV rated, M12 thread, 4-8mm capability - IP68
8485-7	Black PVC, UV rated, M16 thread, 5-10mm capability - IP68



Cable grommet

5591	Bag 100, Nitrile grommet for RG58
5591-2	Single Nitrile grommet for RG58



How to order

Page 1 of 2

ZCG distributor trade prices

ZCG scalar retail distributors, RF installer and Broadcasters can contact our team of consultants who will be pleased to assist you with complete detail about our extensive range of Broadcast and Radio Frequency Products. We DO NOT sell direct to the public or quote retail prices.

A written quotation detailing your Trade Discount Prices and product availability will be provided upon request.

Download the latest ZCG Scalar Product Catalogue from our website www.zcg.com.au

Stock items

Certain items are held in stock.

Our consultants can confirm availability of any item depending on the quantity required.

Orders for stock items will normally be dispatched the next working day.

Build items

Antennas and Accessories not held in stock will be manufactured to your requirements. Build times may vary according to the product, quantity required and factory loading.

Typical lead time is 3 working weeks (public holidays excluded) for dispatch ex works in Lindenow, Victoria. Contact our RF Solutions Consultants for advice according to the product required.

The scheduled dispatch date will be confirmed normally within 48 hours. Freight time will depend upon the method of delivery and final destination. Please allow an adequate period before scheduling any antenna installation.

Urgent priority build items

For orders that require a shorter than normal delivery time, ZCG Scalar offer a priority build service depending on the product and quantity.

Priority Build Service attracts a premium charge which RF Consultants will advise.

Placing orders

All Purchase Orders will be required in writing. Send your Purchase Order by fax or email.x

Fax orders to:

ZCG Head Office, Lindenow, Victoria on +61 (3) 5157 1641

Email orders to: sales@zcg.com.au

PLEASE NOTE THAT ZCG SCALAR TERMS AND CONDITIONS OF SALE WILL APPLY.

Minimum order

ZCG Scalar reserve the right not to accept any purchase order for goods and/or services which totals less than \$50.00, excluding GST and Freight.

Payment

For customers holding a Trading Account with ZCG Scalar, payment is required within 30 days from the date of invoice.

For Non-Account customers, we will require full payment in advance with your purchase order.

ZCG Scalar accept payment by Credit Card or EFT bank deposit.

Order codes

Please use the correct "Order Codes" to identify the products you require when preparing an order.

This will eliminate the potential for any errors and assist us in speedy processing of your order. Product Order Codes appear on our website, in our Product Catalogue and also in our Price List. If in any doubt, our staff will be happy to assist you.

Specific frequency tuning requirements

For any antennas and accessories built for specific frequencies, we will require your Transmit and Receive frequencies (Tx and Rx) to appear in writing on your Purchase Order.

The performance of your RF product will be optimised accordingly. Please take note of the product's frequency range and bandwidth limitations which appear on Specification Sheets. If you require any clarification regarding frequency and bandwidth capabilities, please contact us.

Freight carriers

ZCG Scalar have negotiated competitive rates with our main freight carriers TNT and TOLL IPEC in order to deliver to all destinations around Australia using the fastest and most economical services available. A street address is required for delivery, not a post office box.

We will dispatch via TNT or TOLL IPEC, unless you instruct us otherwise.

Customers can certainly nominate their own preferred freight carrier if they wish. Simply provide us the details.

International customers will need to make their own freight arrangements and provide us details.

How to order

Page 2 of 2

Freight insurance

ZCG Scalar policy is to INSURE ALL OUTGOING FREIGHT against damage or loss during transit.

The Transit Insurance rate is 1 PERCENT of the value of goods before GST. This amount will be invoiced as a separate line item.

IF YOU INSTRUCT ZCG SCALAR NOT TO INSURE YOUR FREIGHT, then ZCG Scalar accept no responsibility whatsoever for goods.

If you utilise your own freight carrier, then Transit Insurance will not be provided by ZCG Scalar.

Responsibility to check goods upon arrival

When goods arrive at their destination, before signing the Delivery Docket, it is the customer's responsibility to CHECK that all items are present and in good condition.

If anything is found to have been damaged in transit, or is missing, make appropriate notes on the Delivery Docket prior to signing. Then contact ZCG Scalar.

If this is not done, then any subsequent insurance claim will be rejected. ZCG Scalar WILL NOT take any responsibility for uninsured goods or insured goods signed for as being received in good order and condition, but later found to be damaged or missing.

Please instruct your staff accordingly prior to the arrival of goods.

Warranty

ZCG Scalar warrants that all goods sold to the buyer will be free from defects in materials and workmanship attributable to ZCG Scalar for a period of:

- 2 Years from the date of Invoice for Broadcast Antennas and Power Dividers; and
- 1 Year from the date of Invoice for all other Antennas and Accessories.

Should the Buyer find any goods to be defective in materials or workmanship attributable to ZCG Scalar within the stated warranty period, then the Buyer must complete a "Warranty Claim Form" explaining the defect(s) and submit this form to ZCG Scalar. The "Warranty Claim Form" is available to download from our website, or will be provided upon request.

The freight for any items returned under warranty to ZCG Scalar must be arranged and paid by the Buyer. ZCG Scalar at their discretion will either repair, replace or refund the cost of any goods found to have a defect attributable to ZCG Scalar within the stated warranty period.

Return of goods

No goods can be returned for credit unless ZCG Scalar have issued the Buyer with a "Customer Return Authorisation Form" explaining the reason(s) why goods are being returned. Contact ZCG Scalar for this form.

When goods are returned by the Buyer, a minimum Re-Stocking Fee of ~~\$50.00~~ will be payable by the Buyer, or 15 percent of the Invoiced value of the goods returned to ZCG Scalar, whichever is the greater, unless stated otherwise by ZCG Scalar.

Terms and conditions of sale

All sales are subject to our ZCG Scalar Terms and Conditions of Sale.

These Terms and Conditions of Sale appear at the back of our Product Catalogue and are also available to download. Visit our website and select the menu 'downloads' Terms and Conditions of Sale.

Variations

ZCG Scalar reserve the right to alter product specifications, pricing and availability at any time without notice.

Our consultants are always available to confirm all details for you in this regard.

Terms and conditions of sale

Page 1 of 4

In these Conditions “**ZCG Scalar**” means ZCG Scalar or any related corporation. The “**Buyer**” means the person, firm corporation or governmental or semi governmental authority purchasing goods and/or services from ZCG Scalar. Unless otherwise clearly stated in writing by ZCG Scalar the following conditions for wholesale sales will apply. “**Goods**” means the goods being purchased from ZCG Scalar, or any part thereof. “**Services**” means services being purchased from ZCG Scalar, or any part thereof.

1) CONTRACT

- a) The matters referred to on the face of this document and these conditions constitute a Contract (“**this Contract**”) between ZCG Scalar and the Buyer. These Conditions shall prevail over any forms of the Buyer that contain provisions contrary to or inconsistent with these conditions and any such forms shall not apply to this Contract nor shall they be deemed to constitute a counter offer by the Buyer.
- b) These terms and conditions shall apply to the exclusion of all agreements, representations and other statements made prior to entering into this agreement and shall constitute all the terms and conditions which govern this agreement.

2) MINIMUM ORDER

ZCG Scalar reserves the right not to accept any purchase order from the Buyer for goods and/or services which **totals less than \$50.00**, excluding GST and Freight.

3) DELIVERY

Unless ZCG Scalar otherwise agrees in writing, GST, delivery, carriage, insurance, handling, storage and packaging and any other expense relating to the goods and/or services shall be charged to and paid by the Buyer.

- a) In the absence of specific instruction from the Buyer, ZCG Scalar will select the carrier and make such contract with the carrier on behalf of the Buyer as ZCG Scalar in its absolute discretion considers reasonable.
- b) In the absence of specific instructions from the Buyer, ZCG Scalar will insure all outgoing freight. If the Buyer instructs that their freight is not to be insured, then ZCG Scalar will not accept any responsibility for goods lost or damaged during transit. When insured goods arrive at their destination, before signing the Delivery Docket, it is the Buyer's responsibility to first check that all items are present and in good condition. If anything is found to have been damaged in transit, or is missing, the Buyer must ensure that appropriate notes are made on the Delivery Docket prior to signing. ZCG Scalar will not take any responsibility for products signed for as being received in good order and condition, but later found to be damaged or missing.
- c) ZCG Scalar will endeavour to deliver the goods and/or services within any delivery period required by the Buyer but subject to Condition 26 shall not in any event be liable for any loss or damage directly or indirectly resulting from any failure to deliver within such period. Time shall not be the essence of this Contract and any delay shall not constitute grounds for cancellation of this contract by the Buyer.
- d) ZCG Scalar shall not be liable for any loss or damage resulting from any failure to give notice of any delay in delivery.
- e) ZCG Scalar reserves the right to deliver the goods and/or services by instalments at its absolute discretion and in such circumstances the Buyer shall accept delivery of such goods and/or services by instalments.
- f) ZCG Scalar shall retain the full legal and beneficial ownership and title in and to goods and/or services delivered to the Buyer unless and until the Buyer has paid to ZCG Scalar or as it directs the invoiced price of those goods and/or services but risk in any such goods and/or services shall pass to the Buyer when ZCG Scalar appropriates the goods and/or services to the Buyer's order. Such goods and/or services shall thereafter be at the risk and expense of the Buyer. If the Buyer defaults or otherwise fails to pay such amount as ZCG Scalar may (but without limiting any other rights or remedies available to ZCG Scalar at law, in equity or by statute) seize, repossess and/or sell the goods and/or services and for such purpose ZCG Scalar or its representatives may enter any premises in or upon which ZCG Scalar believes from time to time the goods and/or services to be located.
- g) If the Buyer sells, transfers or otherwise disposes of the goods and/or services to any personnel or corporation whatsoever (“the Third Party”) and the Buyer has not paid to ZCG Scalar or as it directs the invoiced price of those goods and/or services the Buyer holds as trustee to the extent of the unpaid invoiced price of the goods and/or services the proceeds of sale for ZCG Scalar and shall pay such proceeds to ZCG Scalar in full as soon as is reasonably practicable after receipt by the Buyer and, where the proceeds of sale are less than the amount owing by the Buyer to ZCG Scalar, such proceeds shall be applied in partial satisfaction to be the invoiced price or amount then outstanding.
- h) ZCG Scalar shall have the right to enter the Buyer's premises or any premises upon which the Buyer stores the goods or some of the goods are stored and to take the goods from the Buyer until the goods have been paid for. If ZCG Scalar is unable to resell the goods at the same price or more than the Buyer has paid ZCG Scalar, then ZCG Scalar shall be entitled to make claim, demand or institute, if necessary, an action in order to recover any loss or damage sustained by ZCG Scalar due to ZCG Scalar not being able to obtain the same price as was receivable from the Buyer for the goods.

4) USE OF GOODS

- a) The Buyer agrees, for so long as it is required by ZCG Scalar so to do, that it will notify ZCG Scalar in writing prior to accepting the supply of any radio communications transmitter or receiver included in a class specified in regulations made under the Radio communications Act 1983 or any corresponding legislation if the particular radio communications transmitter or receiver is one that it intends to operate, or is one in respect of which it must otherwise comply with any law requiring the production to ZCG Scalar of a licence permitting the Buyer to operate or, possess the same. The Buyer warrants that any radio communications transmitter or receiver included in a class specified as aforesaid the supply of which it has accepted without giving the notice to ZCG Scalar required by this Condition is not one that it will operate.

Terms and conditions of sale

Page 2 of 4

5) DESIGN CHANGES

ZCG Scalar reserve the right to alter the design or specifications of any goods and/or services at any time without notice. ZCG Scalar shall have no obligation to make alterations in the design or construction of goods and/or services previously accepted and delivered even though design changes are incorporated in goods and/or services subsequently being delivered.

6) BUYER'S SPECIAL REQUIREMENTS

Changes to the specifications at the Buyer's request after the placing of any order will only be accepted at ZCG Scalar's discretion. Such changes will only take effect when agreed in writing by the Company and may result in late delivery or increase in price.

7) CONSENTS

It shall be the responsibility of the Buyer to obtain any consent necessary for the importation of goods and/or services into their country. Any contract shall be conditional upon ZCG Scalar obtaining any consent necessary for the export of the goods and/or services from Australia and/or from the country of origin.

8) PAYMENTS

All accounts are payable net cash within thirty (30) days from date of Invoice.

- a) Where payment is not received in accordance within the specified time, the Buyer agrees that ZCG Scalar shall have the right to invoice and the Buyer will pay Late Payment Charges amounting to 2.5 per centum per month on all monies from time to time owing in respect of the goods and/or services including all charges.
- b) ZCG Scalar reserves the right to suspend all and any deliveries to the Buyer where payment is not received in accordance with paragraph (a) of the Clause.
- c) ZCG Scalar reserves the right to withdraw at any time credit facilities extended the Buyer where payment is not received in accordance with paragraph (a) of this Clause or where others acts or omissions of the Buyer are objectionable to ZCG Scalar.
- d) No discount will be allowed except where otherwise agreed in writing by ZCG Scalar.
- e) The Buyer authorises ZCG Scalar (its servants or agents) to make all reasonable enquires to verify the information given to ZCG Scalar by the Buyer is correct and that the Buyer can satisfy the requirements of ZCG Scalar and its commitments under the terms of this agreement.

9) PRICE VARIATION

- a) Subject to paragraph (b) of this clause all prices shall be as quoted in writing or in accordance with ZCG Scalars current price list. Verbal quotations are subject to written confirmation.
- b) ZCG Scalar reserves the right without notice to alter the price of goods and/or services whether or not a deposit or part payment has been received by ZCG Scalar for such goods and/or services and to invoice the Buyer for any such extra amount where the cost of the goods and/or services to ZCG Scalar has altered due to circumstances beyond its control, or to correct errors or omissions.

10) RETURN OF GOODS

- a) No return of goods will be accepted for credit unless :
 - i) A written "**Customer Return Authorisation Form**" has been issued to the Buyer by ZCG Scalar explaining the reason(s) why goods are being returned.
 - ii) The Buyer returns the goods to ZCG Scalar together with the "Customer Return Authorisation Form" within thirty (30) days from the date the form was issued, and
 - iii) The freight charge for the return of goods to ZCG Scalar is paid by the Buyer, unless stated otherwise by ZCG Scalar on the "Customer Return Authorisation Form".
- b) No return of goods will be accepted and no credit note will be issued for any goods specially acquired or specially manufactured for the Buyer.
- c) No credit note will be issued to refund the original freight charge to the Buyer, unless stated otherwise by ZCG Scalar on the "Customer Return Authorisation Form".
- d) When goods are returned by the Buyer, a minimum Re-Stocking Fee of \$50.00 will be payable by the Buyer, or 15 percent of the Invoiced value of the goods returned to ZCG Scalar, whichever amount is the greater, unless stated otherwise by ZCG Scalar on the "Customer Return Authorisation Form".

Terms and conditions of sale

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- e) Where in ZCG Scalar's opinion goods are returned otherwise than in the same condition as when they were delivered to the carrier or directly to the Buyer a charge equal to the cost necessary to restore the goods to their original condition shall be levied and be payable by the Buyer on demand
- f) Where goods are returned to ZCG Scalar and ZCG Scalar are unable to resell the goods to a third party or unable to resell the goods to the third party for the same amount as was sold to the Buyer then ZCG Scalar shall be entitled to charge the Buyer an equal amount to the loss that it has incurred by reason of the Buyer returning the goods to ZCG Scalar.

11) CANCELLATION

To the full extent permitted by law, orders for good and/or services specially acquired by ZCG Scalar for the Buyer shall not be cancelled by the Buyer without ZCG Scalar's written consent. The cancellation of any order shall be made on terms with indemnify ZCG Scalar against all loss.

12) STANDARD SPECIFICATIONS AND FINISH

Goods and/or services ordered by reference to a standard specification shall be an order for goods and/or services of that general description being identified thereby, made to the current standard finish available.

13) INTELLECTUAL PROPERTY PROTECTION

ZCG Scalar does not warrant that the goods and/or services supplied do not infringe any Letters Patent, Registered Design, Copyright or any Trademarks and shall not indemnify the Buyer, its customers or any user of the goods and/or services against any action, suit, proceedings, demand or claim for actual or alleged infringement of any Letters Patent, Registered Design, Copyright or Trademarks brought or made against the Buyer, its customers or any users by reason of the use of goods and/or services supplied.

14) GOVERNING LAWS

The Buyer has the full responsibility of ensuring that he complies with all Acts, Regulations, Ordinances and By-Laws affecting the possession and use of goods and/or services sold including but without limiting the generality of the foregoing any Acts, Regulations, Ordinances and By-Laws regulating transmitting and receiving equipment or connection to a telecommunications network.

15) PRODUCT WARRANTY

ZCG Scalar warrants that all goods sold to the Buyer will be free of defects in materials and workmanship attributable to ZCG Scalar for the period of:

- a) **2 YEARS** from the date of Invoice for all Broadcast Antenna and Power Dividers; and
- b) **1 YEAR** from the date of Invoice for all other Antennas and Accessories

Should the Buyer find any goods to be defective in materials or workmanship attributable to ZCG Scalar within the stated warranty period, then the Buyer must complete a "**Warranty Claim Form**" explaining the defect(s) and submit this form to ZCG Scalar.

Upon receiving a "Warranty Claim Form" from the Buyer, then ZCG Scalar will either:

- a) Issue the Buyer with a "Customer Return Authorisation Form" in accordance with Paragraph (9) to authorise the return of goods to ZCG Scalar for examination, with the freight for items returned under warranty to ZCG Scalar arranged and paid by the Buyer; or
- b) Attend the Buyer's installation site to assess any defect(s) in the goods supplied.

ZCG Scalar at their discretion will either repair, replace or refund the cost of any goods found to be defective within the stated warranty period, provided that the goods have not been:

- a) damaged through improper installation, physical abuse, neglect or accident,
- b) assembled incorrectly
- c) serviced by an unauthorised person, or
- d) used for other than their intended purpose.

Components are only covered by the component manufacturer's normal warranty and should such warranty have expired before the return of goods then new components installed will be charged at cost. Goods repaired under warranty will be returned to the Buyer or ultimate user, carriage paid.

ZCG Scalar accept no responsibility for any costs incurred for removing or re-installing the product or any losses involved while the product is out of service.

The benefits conferred by the Warranty contained in this condition are in addition to all other rights and remedies in respect of the goods which the Buyer has under the Trade Practices Act similar State and Territory laws.

16) REPAIRS AND PARTS

ZCG Scalar does not promise the availability or facilities for the repair of the goods sold or the availability of parts for such goods

Terms and conditions of sale

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17) INDEMNITY

To the full extent permitted by law the Buyer :

- a) Agrees to indemnify and at all times hereafter to keep indemnified and hold ZCG Scalar, its servants and agents and each of them harmless against all claims for loss or damage (whether as a result of negligence or otherwise) arising directly or indirectly out of the Buyer's use, possession, ownership or resale to a third party or out of the use possession or ownership by such third party of the goods and/or services or any part or parts thereof whether separately or in combination with any other equipment or material.
- b) Agrees that the indemnity in paragraph (a) of this Clause shall survive the termination of this Contract and shall extend to cover all alleged default or defect in the goods and/or services or part or parts thereof or instructions supplied for use in connection with the goods and/or services or out of any failure of the goods and/or services to perform a particular task or to achieve a particular result or to comply with any particular specifications.

18) FORCE MAJEURE

To the full extent permitted by law the Buyer releases ZCG Scalar from all and any liability for and in connection with or arising out of any failure or deal in performance of its obligation hereunder due in whole or in part to any cause whatsoever beyond ZCG Scalar's reasonable control.

19) IMPLIED CONDITIONS AND WARRANTIES

All implied conditions and warranties (statutory or otherwise) are hereby expressly excluded from this Contract insofar as they are capable of being excluded by Agreement.

20) COLLATERAL WARRANTY

Any collateral warranty that may have otherwise arisen from any statement or representation oral or in writing that may have been made by any servants or agents of ZCG Scalar prior to the delivery of the goods and/or services is hereby expressly excluded to the full extent permitted by law and to that extent the Buyer releases ZCG Scalar from any liability in connection with any such statement or representation.

21) REPRESENTATION

To the full extent permitted by law the Buyer hereby releases ZCG Scalar from, and ZCG Scalar expressly disclaims, any liability under, in connection with or arising out of any representation or advice, oral or in writing that may have been made by any servant or agent of ZCG Scalar prior to or at the time of delivery of the goods.

22) FITNESS FOR PURPOSE

The Buyer shall not rely on ZCG Scalar's skills and judgement on whether the goods and/or services are fit for the purpose of which they may be required by the Buyer.

23) WAIVER

No forbearance or other indulgence granted to the Buyer shall in any way discharge the Buyer from any of the Buyer's obligations under this contract or otherwise affect any such obligation.

24) EXTENT OF LIABILITY

In any event ZCG Scalar's liability to the Buyer for any loss damage or injury arising directly or indirectly from the sale of non-domestic goods shall be limited to an amount equal to :

- a) the cost of replacing the goods;
- b) the cost of obtaining equivalent goods; or
- c) the cost of having the goods repaired;

whichever is the lesser amount.

25) NOTICES

Any notices or account rendered to be given to the Buyer by ZCG Scalar shall be in writing and may be mailed postage pre-paid, emailed, faxed or hand delivered to the postal address, email address, facsimile number or street address advised by the Buyer in writing. Any such notice or demand shall be deemed to have been received by the Buyer two (2) business days in the place of a receipt after dispatch if sent by mail, or the same business day in the place of a receipt after dispatch is sent by email, facsimile or hand delivery. Any notice rendered to or to be given to the Company by the Buyer shall be in writing and may be mailed postage pre-paid, emailed, faxed or hand delivered to the Company's office as appears in this agreement or any other address that ZCG Scalar may advise in writing for the purpose.

26) LAW

This Contract shall be governed by and construed in accordance with the laws of the State of Victoria, Australia.

27) STATUTORY RIGHTS

The Buyer acknowledges that this agreement is subject to any rights and obligations arising between the parties pursuant to any legislation or by implication of law and specifically acknowledge that this agreement is not intended and will not operate to override any rights and obligations created by the Trade Practices Act of Commonwealth of Australia (1974 as amended). To the extent that any provision of this agreement is void, voidable or repugnant to the provisions of that Act or any other Act of the State of Victoria that provision shall be deleted from this agreement but the remainder of the provisions of this agreement shall continue to apply.



Contact Us

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