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Section 2

Fixed Position Catalogue

Fixed Position

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Collinears

- HM2800	27.68-27.98 MHz, 0 dBd, 6.2 metres
- ZM204	27.68-27.98 MHz, 0 dBd, 5.1 metres
- ZM40	40.6 MHz, 0 dBd, 3.85 metres
- G11 & G12	70-85 MHz or 85-140 MHz, 3 dBd, 5.6 or 4.8 metres
- G21, G22 & G23	VHF 148-174 MHz, 3-6 dBd, 3.5-5.6 metres (specify model)
- G35	UHF 300-400 MHz, 6 dBd, 2.9 metres
- G45, G46, G49, G49R	UHF 380-520 MHz, 3-9 dBd, 2.5-4 metres (specify model)
- G56 & G59	UHF 520-960 MHz, 6 or 9 dBd, 3 or 4 metres
- SG-MMA Series	UHF 600-900 MHz, 4 dBd, 800mm, incl. MMA
- CLU3	UHF 400-520 MHz, 5.1 dBi, 1.7 metres
- CLV3	VHF 151-152 MHz, 3 dBd, 3.3 metres
- Z1575	Wireless Data 1575.42MHz 8dBi
- ZN2-77-06-AC	UHF CB 477 MHz, 8.1 dBi, 2.5 metres
- ZN2-77-09-AC	UHF CB 477 MHz, 12 dBi, 3.3 metres
- ZN2-375-03	UHF CB 477 MHz, 4.5 dBi, 1.55 metres
- ZN2-675-06	UHF CB 477 MHz, 6 dBi, 1.65 metres
- CM1600AM & CMG1600AM	Telstra 3G (Next G™), 825-890MHz or Telstra, Optus & Vodafone GSM, 890-960MHz, 8.1 dBi, 2.4m
- SGDB-T10	Telstra, Optus & Vodafone 4G, 3G and GSM, 825-960MHz & 1710-2190MHz, 6.2 & 3dBi, MMA
- SGDB-MM-N	Telstra, Optus & Vodafone 4G, 3G and GSM, 825-960MHz & 1710-2190MHz, 6.2 & 3dBi, S/S handle

4GX

- CM1600-4GX	Telstra 4GX, Mast Mount Mobile Phone/Wireless Data Improvement
- ZM18-4GX	Telstra 4GX, Mast Mount Mobile Phone/Wireless Data Improvement

Coaxial Dipoles

- CL3642 & CL3642R	35-42 MHz, 0 dBd, 5 metres
- B13 & B13SS	VHF 70-118 MHz, 0 dBd, 3 metres
- ZAV-7	150-165 MHz, 2.1 dBi, 2 metres
- B19	VHF 148-174 MHz, 0 dBd, 2 metres
- B16	UHF 400-520 MHz, 0 dBd, 1.5 metres
- B19-SA-164	VHF 148-174 MHz, 0 dBd, 2.65 metres
- B19-SAR-164	VHF 148-174 MHz, 0 dBd, 2.65 metres

Sidemount Dipoles

- B39, B40 & B41	38-85 MHz, 0 dBd, 2-3 metres
- B43	VHF 148-174 MHz, 0 dBd, 785mm
- B44	UHF 400-520 MHz, 0 dBd, 290mm
- B65 & B88	600-960 MHz, 0 dBd, 190mm or 150mm

Stacked Dipole Array's

- S2B43 & S4B43	VHF 148-174 MHz, 4.5 or 7 dBd, 3.3 or 5.6 metres
- S2B44 & S4B44	UHF 400-520 MHz, 4.5 or 7 dBd, 1.5 or 2.5 metres

Omnidirectional Binary Array

- DUA4052 Series	UHF 400-520 MHz, 3-9 dBd, 2.5 - 7.2 metres, Stainless Steel or Aluminium
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Discone

- B51H & B51HSS	70-1000 MHz, 0 dBd, 1.2 metres
- B50RX	65-520 MHz, Receive only

Corner Reflector

- RA3	VHF 148-174 MHz, 7.5 dBd
- RA4	UHF 400-520 MHz, 10 dBd

Fixed Position

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Monocone

- B54, B56 & B57 70-84 MHz, VHF or UHF, 0 dBd, 600mm-1.5 metres
- M56SS-MIL-UHF Naval Military Spec UHF Monocone, 0dBd, 1.5 metres
- M56SS-VHF-40 Naval Military Spec VHF Monocone, 0 dBd, 1.57m

AM/FM Radio Receive

- B20G-N-AMFM AM & FM, Receive only, 3.4 metres
- FMRX FM 87.5-108.5 MHz, Receive only, 2.06m

VHF Wireless Microphone Transmission

- GRHT-200 174-220MHz, 2.1dBi, 800mm, detachable

VHF and UHF Round Boom Yagi

- Y100 Series 40-69 MHz, 3-9 dBd, 2.2-6 metres
- Y200 Series 70-108 MHz, 3-9 dBd, 1.8-5 metres
- Y300 Series 100-250 MHz, 4-9 dBd, 2.2-4 metres
- Y303HHF & Y403HH Hand-held foldable yagi, 100-250 MHz or 380-700 MHz

UHF Round Boom Yagi

- Y400 A, B, C, D & E UHF 380-520MHz, 6, 9 and 15 elements, 9, 11.5 or 14dBd, Set frequency
- Y706A-R 700-760MHz, 9 dBd, Boom Length 0.865 metres
- Y800 A, B & C Telstra 3G (Next G™) or Telstra, Optus & Vodafone GSM, 820-960MHz, 6, 9 or 15 elements, 9, 11.5 or 14dBd
- Y415-DD-RSB UHF 15 Element Split Round Boom Yagi, 470 & 610MHz, 14dBd

UHF Square Boom Yagi

- Y400 Series UHF 380-520 MHz, 6-14 dBd, 700mm-2.1 metres
- Y400 A,B,C,D & E UHF 380-520 MHz (set frequencies), 9, 11.5 or 14dBd, 1.2-2.1 metres
- Y406CP 380-700 MHz, 9 dBd per plane, 1.2 metres
- Y409-UHF 350-450 MHz or 400-520 MHz, 11.5 dBd, 1.47-1.71 metres
- Y409-AFP 350-450 MHz, 11.5 dBd, Split boom, 45 degree dipole
- Y415-DP 380-480 MHz, 14dBd per plane, dual polarisation yagi
- Y600 Series 520-700 MHz, 3-9dBd, 700mm-1.1metres
- Y800 Series 700-960 MHz, 9-14 dBd, 600mm-1.85 metres
- Y800 A,B & C Telstra 3G (Next G™) or Telstra, Optus & Vodafone GSM, 820-960MHz, 6, 9 or 15 elements, 9, 11.5 or 14dBd
- Y1215 & Y1615 1200 MHz or 1520-1620 MHz, 14 dBd, 1.35 or 1.5 metres
- Yagi Reflector Screens Suits Y400, Y600TV, Y800 & Y800-20RL series
- Y815B2-DMH 700-960 MHz, 17 dBd, 1.85 metres, 2-bay array
- Y815B2-DMH-Array 700-960 MHz, 20 dBd, 1.85 metres, 2-bay 2-stack array

Log Periodic Yagi

- LPY108-88 FM 87.5-108.5 MHz, 7dBi, 1.32 metres
- LPY100-500 100-500 MHz, 7 dBi, 1.8 metres
- LPY600 500-800 MHz, 6 dBd, 470mm
- LPY698-2700 Telstra, Optus & Vodafone 4G LTE, 4G, 3G & GSM, 11dBi, 400mm
- LPY2250 & LPY2250-25 850-2250 MHz or 650-2250 MHz, 8 or 10.2 dBi, 480mm or 1.15 metres

Radome Enclosed Yagi

- Y1809 4G, 1.71-1.88 GHz, 11.3 dBi, 300mm

Fixed Position

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MIMO Panel and Enclosed Yagi

- | | |
|--------------------|---|
| - Y1809-MIMO-2 | 4G 1710-1880 MHz, 11.3dBi per plane, 345mm |
| - Y2009-MIMO-2 | 3G 1990-2170 MHz, 11.3dBi per plane, 290mm |
| - ZD8Z-XP-MIMO | 4G LTE, 4G, 3G & GSM, 698-890 MHz & 1710-2100 MHz, 8dBi Nominal, N-type Female |
| - ZD8Z-XP-716-MIMO | 4G LTE, 4G, 3G & GSM, 698-890 MHz & 1710-2100 MHz, 8dBi Nominal, 7/16" DIN Female |

Airband Collinears

- | | |
|-------------|----------------------------------|
| - G12 | 85-140 MHz, 3 dBd, 4.8 metres |
| - G45-SP4.5 | 118-136 MHz, 4.5 dBd, 5.5 metres |

Airband Coaxial Dipoles

- | | |
|------------|------------------------------|
| - B14& B18 | 118-136 MHz, 0 dBd, 3 metres |
|------------|------------------------------|

Airband Sidemount Dipole

- | | |
|-----------------|--|
| - B42 & B42SS | 118-136 MHz, 0 dBd, 1.035 metres |
| - S2B42 & S4B42 | 118-136 MHz, 4.5 or 7.5 dBd, 3.3 or 5.6 metres |

Airband Discones

- | | |
|-----------------|--------------------------------|
| - B51H & B51HSS | 70-1000 MHz, 0 dBd, 1.2 metres |
|-----------------|--------------------------------|

Airband Monocones

- | | |
|-------------|---|
| - B55AL | 118-136 MHz, 0 dBd, 1.5 metres |
| - B55SS | 118-136 MHz, 0 dBd, 1.55 metres |
| - M55SS-MIL | Naval Military Spec 118-136MHz, 0 dBd, 1.3 metres |

Embedded Data Antenna

- | | |
|--------|---|
| - ZRPM | Raised Pavement Marker, Data Antenna 915MHz & 2.4 GHz |
|--------|---|

UHF Link Antenna's

- | | |
|-------------|--------------------------|
| - MGP-6400N | Grid pack point to point |
|-------------|--------------------------|

Antenna Installation Accessories

How to Order

Terms & Conditions of Sale

Contact Us

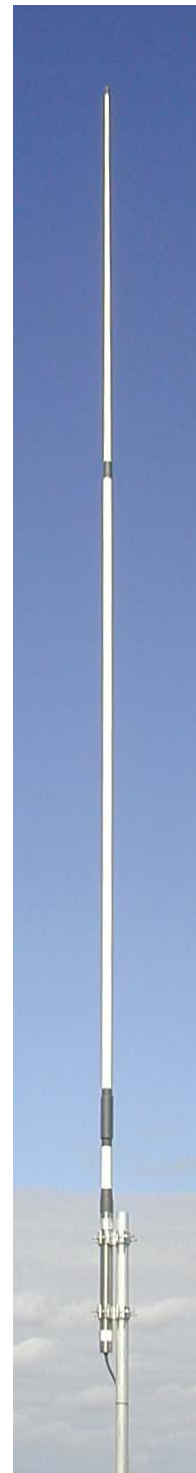
HM2800

"Coastguard" 27MHz Collinear

Built to full commercial specifications, HM2800 "coastguard" 27MHz marine base station collinear will survive long term in the most severe weather conditions and hostile environments.

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

Specifications	HM2800
Construction	White radome, stainless steel mount tube
Frequency	27.680-27.980MHz
Tuning	Factory
Return Loss, VSWR	<1.5:1 Full band
Gain	0 dBd
Maximum Power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° Omnidirectional
Cable Tail	1 metre RG213 (bottom exit from mount section)
Connector (fitted)	N-female
Height	6.2 metres
Weight	7Kg
Mount Tube	500mm x 50mm
Mounting Accessories (order seperate)	2 x UAM180L or 2 x UAM90L
Mounting Position (recommended)	Mount as high on your vessel, tower, mast or structure as possible using appropriate mounting clamps.



ZM204-CB

5-Piece land 27MHz

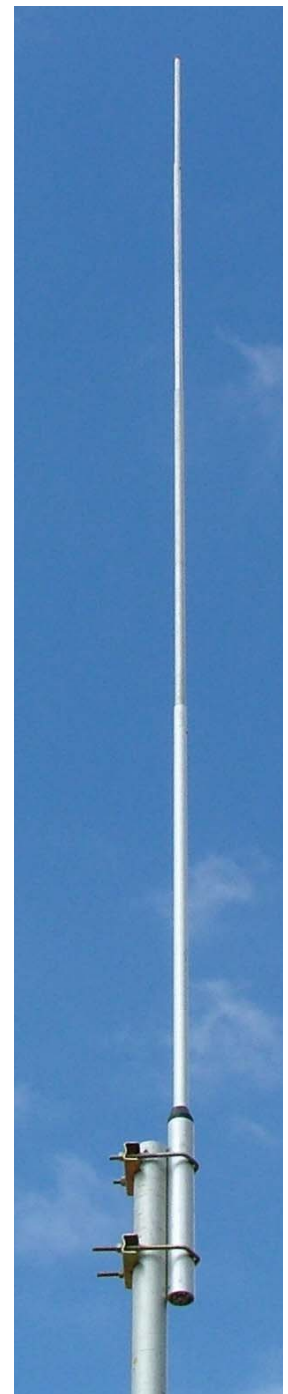
Telescopic Collinear

The ZM204-CB offers a economical and lightweight solution omnidirectional 27MHz communications.

With a telescopic design this antenna has the ability to reduce in height significantly when storage or transportation is required.

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

Specifications	ZM204-CB
Construction	5 piece anodised aluminium
Frequency	26.9-27.4MHz
Tuning	Factory
Return Loss, VSWR	Better than 1.5:1 VSWR across frequency
Gain	2.1 dBi
Maximum Power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
Connector	UHF female in base of mount tube
Height (extended)	5.1 metres
Weight	2Kg
Length when Packed	1.4 metres
Mount Tube	300mm x 38mm
Mounting Accessories	2 x U-Bolts and V-Blocks (supplied)
Mounting Position	Mount as high on your structure or vehicle as possible using the supplied mounting hardware.



ZM40

5 Piece VHF 40.6MHz

Telescopic Collinear

The ZM40 collinear offers an economical and light weight solution for omnidirectional transmit and receive.

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

Specifications	ZM40
Construction	5 piece anodised aluminium
Frequency	VHF 40.6MHz
Tuning	Factory
Return Loss, VSWR	< 1.5:1 VSWR
Gain	0 dBd
Maximum Power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
Connector	N-female in bottom of mount tube
Height	3.85 metres
Weight	1.3Kg
Length when packed	1 metre
Mount Tube	300mm x 38mm
Mounting Accessories (order separate)	2 x EB1-SS or 1 x UB3-SS
Mounting Position (recommended)	Mount as high on your vessel, structure, mast or tower using the appropriate mounting bracket/s



Omnidirectional VHF collinears

VHF 70-140MHz

These VHF omnidirectional fixed position collinears are suitable for two-way radio and other systems operating within the VHF 70-140MHz frequency range.

Mounting clamps, coaxial feeder cables, connectors and other installation accessories are all available separately.

Specifications	G11	G12
Construction	White radome, aluminium mount tube	
Frequency Range	70-85MHz	85-140MHz
Maximum Bandwidth	Any 3% (specify TX & RX)	Any 5% (specify TX and RX)
Return Loss, VSWR	<1.5:1 across specified bandwidth	
Tuning	Factory	Factory
Gain	3 dBd	3 dBd
Maximum Power	250 Watts	250 Watts
Impedance (nominal)	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Polarisation	Vertical	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd	
E Plane	32°	32°
Connector	N-type female in base of mount section	
Height (at lowest frequency)	5.6 metres (at 70MHz)	4.8 metres (at 85MHz)
Weight	10Kg	9Kg
Projected Area	0.15m ²	0.14m ²
Wind Load at 160kph	23Kg, 0.230kN	17Kg, 0.170kN
Mount tube	600mm x 48mm	600mm x 48mm
Mounting Accessories (order separate)	2 x UAM180L (parallel) or 2 x UAM90L (right-angle)	
Mounting Position (recommended)	Mount as high on your structure, mast or tower as possible using the appropriate mounting clamps	



Omnidirectional VHF Collinears

VHF 140-174MHz

These VHF omnidirectional fixed position collinears are designed for commercial paging, trunking and general communication systems operating within the VHF 148-174MHz frequency range.

If a power rating higher than 250 watts is required, please contact ZCG for advice.

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

Specifications	G21	G22	G23	G25
Construction	White radome, aluminium mount tube			
Service	Light	Commercial	Commercial 'Inverted Available'	Commercial
Frequency Range	VHF 148-174MHz			VHF 140-174MHz
Maximum Bandwidth	Any 1%	Any 3%	Any 4%	Any 3%
Return Loss, VSWR	Better than -15dB, 1.5:1 across specified bandwidth			
Tuning	Factory	Factory	Factory	Factory
Gain	3 dBd	6 dBd	3 dBd	4.5dBd
Maximum Power	250 Watts	250 Watts	250 Watts	250 Watts
Impedance (nominal)	50 Ohms	50 Ohms	50 Ohms	50 Ohms
DC Grounding	Yes	Yes	Yes	Yes
Polarisation	Vertical	Vertical	Vertical	Vertical
H Plane	360° omnidirectional, ± 0.5 dB			
E Plane	32°	16°	32°	26°
Connector	N-female in base of mount section			
Height (at 148MHz)	3.5 metres	5.6 metres	3.5 metres	4.5 metres
Weight	4Kg	13Kg	4.5Kg	6.5Kg
Projected Area	0.05m ²	0.16m ²	0.11m ²	0.107m ²
Wind Load at 160kph	6Kg, 0.06kN	19Kg, 0.19kN	10Kg, 0.13kN	12.9Kg, 0.126kN
Mount tube	500mm x 40mm	600mm x 48mm		595mm x 48mm
Mounting Accessories (order separate)	2 x EB1-SS or 1 x UB3-SS	2 x UAM180L (parallel) or 2 x UAM90L (right-angle)		



G35

UHF 300-400MHz Omnidirectional Collinear

The G35 omnidirectional fixed position collinear is designed for commercial paging, trunking and general communication systems operating within the UHF frequency range.

Mounting clamps, coaxial feeder cables, connectors and other installation accessories are all available separately.

Specifications	G35
Construction	White fibreglass radome and aluminium mount tube
Frequency Range	UHF 300-400MHz
Maximum Bandwidth	Any 5% (specify Transmit and Receive on order)
Return Loss, VSWR	<1.5:1 VSWR across specified bandwidth
Tuning	Factory
Gain	6 dBd
Maximum Power	250 Watts
Impedance (nominal)	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° Omnidirectional, ± 0.5 dBd
E Plane	16°
Connector	N-type female in base of mount section
Height (at 300MHz)	2.9 metres (higher frequencies, radome will be reduced)
Weight	3.0Kg
Projected Area	0.105m ²
Wind Load at 160kph	12.74Kg, 0.125kN
Mount tube	500mm x 40mm
Mounting Accessories (order sepearte)	2 x UAM180L (parallel) or 2 x UAM90L (right-angle)



Omnidirectional UHF Collinears

UHF 380-520MHz

This range of UHF omnidirectional fixed position collinears are designed for use within the UHF frequency range 380-520MHz.

The G49R model is a more robust and rugged design and construction, purpose built to survive the most extreme conditions.

Please specify TX and RX frequencies when ordering.

Mounting clamps, coaxial feeder cables, connectors and other installations accessories are all available separately.

Specifications	G45	G46	G49	G49R
Radome	White radome			Rugged radome
Mount Tube Material	Aluminium	Stainless Steel	Stainless Steel	Heavy duty Aluminium
Frequency Range	UHF 380-520MHz			
Maximum Bandwidth	Any 4%	Any 1.5% (specify when ordering)		
Return Loss, VSWR	Better than -15dB, 1.5:1 across specified bandwidth			
Tuning	Factory	Factory	Factory	Factory
Gain	3 dBd	6 dBd	9 dBd	9 dBd
Maximum Power	250 Watts	250 Watts	250 Watts	250 Watts
Impedance (nominal)	50 Ohms	50 Ohms	50 Ohms	50 Ohms
DC Grounding	Yes	Yes	Yes	Yes
Polarisation	Vertical	Vertical	Vertical	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd			
E Plane	32°	16°	9°	9°
Connector	N-type female in base of mount tube			
Height (at 380MHz)	2.5 metres	3.0 metres	3.5 metres	4.0 metres
Weight	2Kg	3Kg	4Kg	7Kg
Projected Area	0.057m²	0.066m²	0.075m²	0.117m²
Wind Load at 160kph	5.7Kg, 0.056kN	8Kg, 0.079kN	9.09Kg, 0.089kN	14.9Kg, 0.14kN
Mount tube	450mm x 32mm			400mm x 48mm
Mounting Accessories (order separte)	2 x EB1-SS or 1 x UB3-SS			2 x UAM180L or 2 x UAM90L



Omnidirectional UHF Collinears

UHF 520-960MHz

These high gain UHF omnidirectional fixed position collinears are suitable for two-way radio systems operating within the UHF 520-960MHz frequency range.

Mount clamps, coaxial feeder cable, connectors and other installation accessories are all available separately.

Specifications	G56	G59
Construction	White radome, stainless steel mount tube	
Frequency Range	UHF 520-960MHz	
Maximum Bandwidth	Any 1% (specify Transmit and Receive when ordering)	
Return Loss, VSWR	<1.5:1 across specified bandwidth	
Tuning	Factory	Factory
Gain	6 dBd	9 dBd
Maximum Power	250 Watts	250 Watts
Impedance (nominal)	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Polarisation	Vertical	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd	
E Plane	16°	9°
Connector	N-female in base of mount tube (no cable)	
Height (at 520MHz)	3.0 metres	4.0 metres
Weight	1.8Kg	2Kg
Projected Area	0.060m ²	0.070m ²
Wind Load at 160kph	7Kg, 0.066kN	8.4Kg, 0.083kN
Mount tube	500mm x 32mm	
Mounting Accessories (order separate)	2 x EB1-SS or 1 x UB3-SS	
Mounting Position (recommended)	Mount as high on your structure, mast or tower as possible using the appropriate mounting clamps	



SG Series

Super Gain UHF 650-900MHz

Mast Mount Collinear

The SG super gain series of UHF mast mount antennas offer good performance combined with our robust tried and tested ZCG quality construction.

Suitable for low power transmit and receive applications.

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

Specifications	SG600-MMA	SG675-MMA	SG700-MMA
Construction	White fibreglass radome, aluminium ferrule and mast mount adaptor and cable assembly		
Frequency Range	600-650MHz	650-700MHz	700-900MHz
Bandwidth	Fixed 50MHz		Specify 50MHz
Tuning	Factory	Factory	Factory
VSWR	<1.5:1 VSWR across bandwidth		
Gain	6.2 dBi	6.2 dBi	6.2 dBi
Maximum Power	30 Watts	30 Watts	30 Watts
Impedance	50 Ohms	50 Ohms	50 Ohms
Polarisation	Vertical	Vertical	Vertical
H Plane	360° Omnidirectional		
E Plane	32°	32°	32°
Cable	5 metres RG58 low loss (side exit from ferrule)	4.5 metres RG58 low loss (side exit from ferrule)	
Connector (fitted)	N-female	BNC male	BNC male
Height	90cm	90cm	90cm
Weight	900grams	900grams	900grams
Mounting Accessories (Order separate)	2 x EB1-SS or 1 x UB3-SS		
Mounting Position (recommended)	Mount as high on your structure, pole or tower as possible using the appropriate mounting clamp/s.		



CLU3 and CLU3SS

UHF 400-520MHz

Mast Mount Collinear

The CLU3 and CLU3SS fixed position mast mount UHF collinears are designed and manufactured to ensure long term survival and will deliver reliable performance for many years.

Mounting clamps, coaxial feeder cable, connector and other installation accessories are all available separately.

Specifications	CLU3	CLU3SS
Construction	White fibreglass radome, aluminium mount tube	White fibreglass radome, stainless steel mount tube
Frequency Range	UHF 400-520MHz	UHF 400-520MHz
Bandwidth	Any 1.5% (specify centre frequency when ordering)	
Tuning	Factory	Factory
Return Loss, VSWR	<1.5:1 across specified bandwidth	
Gain	5.1 dBi	5.1 dBi
Maximum Power	100 Watts	100 Watts
Impedance	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Polarisation	Vertical	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd	
E Plane	28°	28°
Connector	N-female in base of mount section	
Height	1.7 metres	1.7 metres
Weight	1.2Kg	1.2Kg
Projected Area	0.032m ²	0.032m ²
Wind Load at 160kph	3.9Kg, 0.039kN	3.9Kg, 0.039kN
Mount Tube	300mm x 25mm	300mm x 25mm
Mounting Accessories (order sepearate)	2 x EB1-SS or 1 x UB3-SS	
Mounting Position (recommended)	Mount as high on your structure, mast or tower as possible using the appropriate mounting clamps	



CLV3

VHF 151-152MHz

Mast Mount Collinear

The CLV3 VHF fixed position mast mount collinear is designed and manufactured to ensure long term survival and will deliver reliable performance for many years.

Mounting clamps, coaxial feeder cable, connector and other installation accessories are all available separately.

Specifications	CLV3
Construction	White fibreglass radome and aluminium mount tube
Frequency Range	VHF 151-152MHz
Bandwidth	Full band
Tuning	Factory
Return Loss, VSWR	<1.5:1 Full band
Gain	3 dBd
Maximum Power	50 Watts
Impedance	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
E Plane	51°
Connector	N-female in base of mount section
Height	3.3 metres
Weight	2Kg
Projected Area	0.071m ²
Wind Load at 160kph	8.7Kg, 0.039kN
Mount Tube	350mm x 25mm
Mounting Accessories (order seperate)	2 x EB1-SS or 1 x UB3-SS
Mounting Position (recommended)	Mount as high on your structure, mast or tower as possible using the appropriate mounting clamps



Z1575

1.575GHz GPS Collinear Omnidirectional Wireless Data Assembly

The Z1575 is an omnidirectional ground independent wireless data collinear suitable for use within the UHF 1575.42MHz.

The Z1575 bracket mount collinear is ideal for GPS tracking applications on vehicles or used as a base station antenna back at your office or at home.

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

Specifications	Z1575
Construction	White radome and nylon ferrule
Frequency Range	GPS 1.575GHz
Bandwidth	Full band
VSWR	<1.5:1 across full band
Tuning	Factory
Gain	8 dBi
Maximum Power	10 Watts
Impedance (nominal)	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional
Cable	2.0m RG142 (side exit)
Connector (fitted)	Right Angle SMA Male
Height	900 mm
Weight	600 grams
Mounting Accessories	Any bracket with minimum 12.7mm hole (order separate)



ZN2-77-06

UHF CB Radio 477MHz Mast Mount Collinear

The ZN2-77-06 omnidirectional collinear is specifically designed and manufactured for use as a UHF CB radio fixed position antenna.

With high gain and the flexibility of mounting to a mast, building or any other structure, the ZN2-77-06 is the ideal solution for UHF CB radio communications.

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

Specifications	ZN2-77-06
Construction	White fibreglass radome and aluminium mount tube
Frequency Range	UHF CB radio 477MHz
VSWR	<1.5:1
Tuning	Factory
Gain	8.1 dBi
Maximum Power	100 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° Omnidirectional
Connector	N-type female in base of mount section
Height	2.5 metres
Weight	750grams
Mounting Accessories (order separate)	2 x EB1-SS or 1 x UB1-SS
Mounting Position (recommended)	Mount as high on your structure, mast or tower as possible using the appropriate mounting clamps

High Gain Model Available	
ZN2-77-09	12dBi - 3.3metres



ZN2-77-09

UHF CB Radio 477MHz Mast Mount Collinear

The ZN2-77-09 omnidirectional collinear is specifically designed and manufactured for use as a UHF CB radio fixed position antenna.

With high gain and the flexibility of mounting to a mast, building or any other structure, the ZN2-77-09 is the ideal solution for UHF CB radio communications.

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

Specifications	ZN2-77-09
Construction	White fibreglass radome and aluminium mount tube
Frequency Range	UHF CB radio 477MHz
VSWR	<1.5:1
Tuning	Factory
Gain	12 dBi
Maximum Power	100 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
Connector	N-type female in base of mount section
Height	3.3 metres
Weight	1.5Kg
Mounting Accessories (order separately)	2 x EB1SS or 1 x UB1SS
Mounting Position (recommended)	Mount as high on your structure, mast or tower as possible using the appropriate mounting clamps

Lower Gain Model Available	
ZN2-77-06	8.1dBi - 2.5 metres



ZN2-375-03

UHF CB Radio 477MHz Mast Mount Collinear

The ZN2-375-03 mast mount collinear is specifically designed and manufactured for UHF CB Radio communications at the 477MHz frequency.

The ZN2-375-03 has foam filled internals to improve longevity of the antenna in the harsh Australian environment.

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

Specifications	ZN2-375-03
Construction	White fibreglass radome, anodised aluminium mount section - foam filled
Frequency Range	UHF CB Radio 477MHz
VSWR	<1.5:1 VSWR
Tuning	Factory
Gain	4.5 dBi
Maximum Power	100 Watts
Impedance	50 Ohm
Polarisation	Vertical
H Plane	360° Omnidirectional
Connector (fitted)	UHF Female in base of mount section
Height	1.55m
Weight	600grams
Mounting Accessories (order sepearate)	2 x EB1-SS or 1 x UB3-SS
Mounting Position (recommended)	Mount as high on your structure, mast or tower as possible using the appropriate mounting clamps
High Gain Model Available	
ZN2-675-06	6dBi - 1.65 metres



ZN2-675-06

UHF CB Radio 477MHz Mast Mount Collinear

The ZN2-675-06 mast mount collinear is specifically designed and manufactured for UHF CB Radio communications at the 477MHz frequency.

The ZN2-675-06 has foam filled internals to improve longevity of the antenna in the harsh Australian environment.

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

Specifications	ZN2-675-06
Construction	White fibreglass radome, anodised aluminium mount section - foam filled
Frequency Range	UHF CB Radio 477MHz
VSWR	<1.5:1
Tuning	Factory
Gain	6 dBi
Maximum Power	100 Watts
Impedance	50 Ohm
Polarisation	Vertical
H Plane	360° omnidirectional
Connector (fitted)	UHF female in base of mount section
Height	1.65 metres
Weight	700grams
Mounting Accessories (order sepearate)	2 x EB1-SS or 1 x UB3-SS
Mounting Position (recommended)	Mount as high on your structure, mast or tower as possible using the appropriate mounting clamp/s

Lower Gain Model Available	
ZN2-375-03	4.5dBi - 1.65 metres



CM Series

Telstra 3G or Telstra, Optus & Vodafone GSM Mast Mount Mobile Phone/Wireless Data Improvement

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

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

Specifications	CM1600AM	CMG1600AM
Construction	White fibreglass radome, stainless steel mount tube and tri-metal plated termination	
Frequency Range	Telstra 3G 825-890MHz	Telstra, Optus & Vodafone GSM 890MHz-960MHz
VSWR	<1.5:1	<1.5:1
Tuning	Factory	Factory
Gain	8.1 dBi	8.1 dBi
Maximum Power	20 Watts	20 Watts
Impedance	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Polarisation	Vertical	Vertical
H Plane	360° omnidirectional	360° omnidirectional
E Plane	13°	13°
Connector (fitted)	N-type female in base of mount tube (no cable)	
Height	2.4 metres	2.4 metres
Weight	700grams	700 grams
Mount Tube	420mm x 20mm	420mm x 20mm
Mounting (order separate)	2 x EB1-SS or 1 x UB3-SS	
Mounting Position (recommended)	Mount as high on your mast/tower or structure using the appropriate clamps.	



SGDB-T10 Series

Telstra, Optus & Vodafone 4G, 3G and GSM

Mast Mount Mobile Phone/Wireless Data Improvement

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

Specifications	SGDB-T10
Construction	Black fibreglass radome, aluminium ferrule and mast mount, cable assembly and termination
Frequency Range	Telstra, Optus & Vodafone 4G, 3G & GSM 825-960MHz & 1710-2190MHz
Bandwidth	Full band
VSWR	<1.6:1 across full band
Tuning	Factory
Gain	6.2 dBi (825-960MHz) and 3 dBi (1710-2190MHz)
Maximum Power	30 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° Omnidirectional
E Plane	32°
Cable	10 metres RG58L/L (bottom exit from mount section)
Connector (fitted)	Gold plated SMA male
Height	900mm
Weight	900grams
Mounting (order separate)	2 x EB1-SS or 1 x UB3-SS
Mounting Position (recommended)	Mount as high on your structure, mast or tower using the appropriate mounting clamps.



SGDB-MM-N

Telstra, Optus & Vodafone 4G, 3G and GSM Mast Mount Mobile Phone/Wireless Data Improvement

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

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

Specifications	SGDB-MM-N
Construction	White fibreglass radome and stainless steel mount tube
Cellular Coverage	Telstra, Optus & Vodafone 4G, 3G and GSM 825-960MHz & 1710-2190MHz
Bandwidth	Full band
VSWR	<1.6:1 across full band
Tuning	Factory
Gain	6.2 dBi (825-960MHz) and 3 dBi (1710-2190MHz)
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 tube	400mm x 22.2mm
Mounting Accessories (order separate)	2 x EB1-SS or 1 x UB3-SS
Mounting Position (recommended)	Mount as high on your structure ,mast or tower using the appropriate mounting clamps.



***NEW* CM1600-4GX**

Telstra 4GX

Mast Mount Mobile Phone/Wireless Data Improvement

The CM1600-4GX Telstra mast mount, offers the maximum gain and reception range practical in a omni-directional, mobile phone/wireless data fixed position collinear. These mast mount models offer the maximum gain and reception range practical in a omnidirectional mobile phone or wireless data reception and transmission antenna.

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

Specifications	CM1600-4GX
Construction	White Fibreglass radome, Stainless steel mount tube and tri-metal plated termination.
Frequency	Telstra 4GX , 700 to 788 MHz
VSWR	Full Band
Tuning	Factory
Gain	8.1 dBi
Maximum Power	30 Watts
Impedance	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360 ° omnidirectional
E Plane	13°
Connector (fitted)	N-type female in base of Mount Tube
Height	2.4 metres
Weight	700grams
Mount Tube	330mm x 22mm
Mounting	2 x EB1-SS or 1 x UB3-SS
Mounting Position	As high on your structure as possible, on a metal ground plane.



NEW**ZM18-4GX**

Telstra 4GX

Marine Mobile Phone/Wireless Data Improvement

These marine mobile phone/wireless data deck mount models offer the maximum gain and reception range practical in a broadband Telstra 4GX network antenna.

The ZM18-4GX is identical in appearance to all the other ZM21 series of marine antennas. The ZM18-4GX is identical in appearance to all other ZM24 series of marine antennas.

Alternative mounting options, water-proofing, adaptors and other installation accessories are all available separately.

Specifications	ZM18-4GX
Construction	White fibreglass radome, chrome mount ferrule, cable assembly and tri-metal plated termination.
Frequency Range	Telstra 4GX, 718-788 mHz
Bandwidth	Full band
Tuning	Factory
VSWR	<1.5:1 full band
Gain	8.1 dBi
Maximum Power	30 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional
E Plane	13°
Cable	4.5 metres RG58 low loss (side exit from ferrule)
Connector (fitted)	FME female
Height	1.8 metres
Weight	500grams
Mounting	Choose either plastic or stainless steel fold down base when ordering (not included)
Mounting Position	Mount as high on your watercraft as possible such as the roof or alternatively to the deck.



CL3642

VHF 35-42MHz

Mast Mount Coaxial Dipoles

Manufactured to full commercial standard, these omnidirectional fixed position coaxial dipoles have a customer specified 1% bandwidth within the VHF frequency range 35-42MHz.

The CL3642R is an even more robust model with a thicker “**ruggedised**” radome and larger stainless steel mount tube, purpose built to survive the most extreme weather conditions.

Mounting clamps, coaxial feeder cables, connectors and other installation accessories are all available separately.

Specifications	CL3642	CL3642R
Construction	White fibreglass radome and stainless steel mount section	White ruggedised fibreglass radome and stainless steel mount section
Frequency Range	VHF 35-42MHz	
Maximum Bandwidth	Specify 1% bandwidth	
Return Loss, VSWR	<1.5:1 across specified bandwidth	
Tuning	Factory	Factory
Gain	0 dBd	0 dBd
Maximum Power	50 Watts	50 Watts
Impedance (nominal)	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Polarisation	Vertical	Vertical
H Plane	360 Omnidirectional, $\pm 0.5\text{dB}$	
Cable Tail	1 metre RG213 (bottom exits from mount section)	
Connector (fitted)	N-type female	N-type female
Height	5 metres	5 metres
Weight	4.0Kg	6.5Kg
Projected area	0.142m ²	0.190m ²
Wind load at 160kph	19.5Kg	24.1Kg
Mount tube	500mm x 32mm	600mm x 48mm
Mounting Accessories (order seperate)	2 x UAM180L (parallel) or 2 x UAM90L (right-angle)	



B13 and B13SS

VHF 70-118MHz

Mast Mount Coaxial Dipole

The B13 and B13SS omnidirectional coaxial dipoles are effective and economical VHF fixed position antennas.

At the lowest frequency 70MHz the coaxial dipole will stand **3 metres tall**. At higher frequencies the radome height will reduce.

Mounting clamps, coaxial feeder cable, surge protection and other installation accessories are all available separately.

Specifications	B13	B13SS
Construction	White fibreglass radome, aluminium or stainless steel mount section	
Frequency Range	VHF 70-118MHz	
Maximum Bandwidth	Specify any 3%	
Return Loss, VSWR	<1.5:1 across specified bandwidth	
Tuning	Factory	
Gain	0 dBd	
Maximum Power	100 Watts	
Impedance (nominal)	50 Ohms	
DC Grounding	Yes	
Polarisation	Vertical	
H Plane	360° Omnidirectional, ± 0.5 dBd	
E Plane	60°	
Connector	N-type female in base of mount section	
Weight	1.0Kg	1.6Kg
Projected Area	0.05m ²	
Wind Load at 160kph	6.0Kg, 0.08kN	
Mount Tube	32mm x 500mm Alum.	32mm x 500mm S/S
Mounting Accessories (order separate)	2 x EB1-SS or 1 x UB3-SS	
Mounting Position (recommended)	Mount as high on your structure, mast or tower as possible using the appropriate mounting clamps. At 70MHz, 2 metre distance from vertical structure	



ZAV-7

VHF 150-165MHz

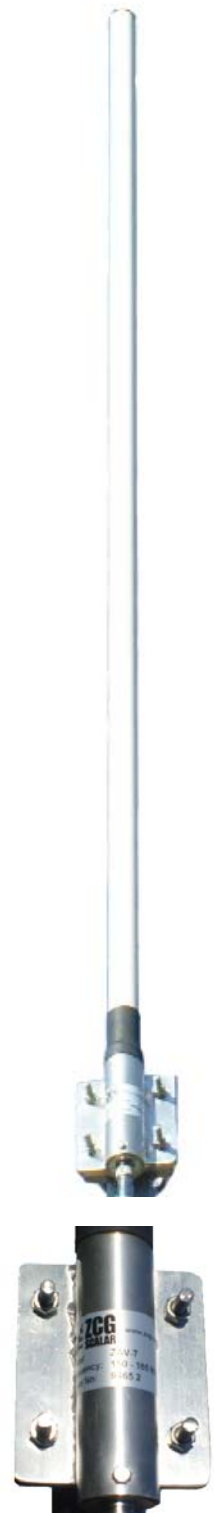
Centre Fed Coaxial Dipole

The ZAV-7 is made to Military Standards to ensure it can withstand the harshest of conditions and treatment. The internal are embedded in PUR foam to protect them from moisture ingress and detrimental vibrations.

Having a versatile mount, it can be bolted to any flat surface or using its U-bolts, mounted on a pole.

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

Specifications	ZAV-7
Construction	White radome, aluminium mounting section
Frequency Range	VHF 150-165MHz
Bandwidth	Full band
VSWR	2:1 VSWR across full band
Tuning	Factory
Gain	2.1 dBi
Maximum Power	100 Watts
Impedance (nominal)	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
E Plane	46°
Connector	UHF female in base of mount section
Height	2 metres
Weight	2Kg
Projected Area	0.05m ²
Wind Load at 160kph	5.972Kg, 0.06kN
Mounting Accessories (supplied)	Mount plate has 4 x equispaced holes, 65mm stainless steel U-bolts supplied
Mounting Position (recommended)	Mount as high as possible on your structure, mast or tower using the appropriate mounting bracket.



B19

VHF 148-174MHz

Mast Mount Coaxial Dipole

The B19 VHF coaxial dipole provides an economical fixed position antenna solution with no compromise in either quality of construction or performance. It is ideal for omnidirectional low power transmit and receive applications up to 100 Watts.

Mounting clamps, coaxial feeder cables, connectors and other installation accessories are all available separately.

Specifications	B19
Construction	White fibreglass radome and stainless steel mount tube
Frequency Range	VHF 148-174MHz
Maximum Bandwidth	Specify any 3%
Return Loss, VSWR	<1.5:1 VSWR across specified bandwidth
Tuning	Factory
Gain	0 dBd
Maximum Power	100 Watts
Impedance (nominal)	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° Omnidirectional, ± 0.5 dBd
E Plane	66°
Connector	N-type female in base of mount section
Height at Lowest Frequency	2 metres (@ 148MHz)
Weight	2.3Kg
Projected Area	0.04m ²
Wind Load at 160kph	4.0Kg, 0.04kN
Mount Tube Diameter	32mm
Mounting Accessories (order separate)	2 x EB1-SS or 1 x UB3-SS
Mounting Position (recommended)	Mount as high as possible on your structure, mast or tower using the appropriate mounting clamps



B16

UHF 400-520MHz

Mast Mount Coaxial Dipole

The B16 coaxial dipole provides an economical fixed position antenna solution with no compromise in either quality of construction or performance. It is ideal for omnidirectional low power transmit and receive applications up to 100 Watts.

Mounting clamps, coaxial feeder cables, connectors and other installation accessories are all available separately.

Specifications	B16
Construction	White radome, aluminium mount tube
Frequency Range	UHF 400-520MHz
Maximum Bandwidth	Specify any 3%
Return Loss, VSWR	<1.5:1 VSWR across specified bandwidth
Tuning	Factory
Gain	0 dBd
Maximum Power	100 Watts
Impedance (nominal)	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° Omnidirectional
E Plane	66°
Connector	N-type female in base of mount section
Height at Lowest Frequency	1.5 metres (400MHz)
Weight	1.5Kg
Projected Area	0.035m ²
Wind Load at 160kph	3.5kG, 0.035kN
Mount Tube Diameter	25mm
Mounting Accessories (order separate)	2 x EB1-SS or 1 x UB3-SS
Mounting Position (recommended)	Mount as high as possible on your structure, mast or tower using the appropriate mounting clamp/s



B19-SA-164

VHF 158-173 MHz Band

Mast Mount broad band Dipole

The B19-SA-164 VHF dipole provides an economical fixed position antenna solution with no compromise in either quality of construction or performance. It is ideal for omni-directional low power transmit and receive applications up to 100 Watts.

Mounting clamps, coaxial feeder cables, connectors and other installation accessories are all available separately.

Specifications	B19-SA-164
Construction	White fibreglass radome and stainless steel mount tube
Frequency Range	VHF 158-173MHz Band
Maximum Bandwidth	Full Band
Return Loss, VSWR	<1.5:1 VSWR across specified bandwidth
Tuning	Factory
Gain	0 dBd
Maximum Power	100 Watts
Impedance (nominal)	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° Omnidirectional, ± 0.5 dBd
E Plane	66°
Connector	N-type female in base of mount section
Height at Lowest Frequency	2.45 metres
Weight	3.2Kg
Projected Area	0.094m ²
Wind Load at 160kph	11.37Kg, 0.111kN
Mount Tube Diameter	52mm
Mounting Accessories (order separate)	2 x VAM180 UNI
Mounting Position (recommended)	Mount as high as possible on your structure, mast or tower using the appropriate mounting clamps



B19-SAR-164

VHF 148- 174 MHz Band

Mast Mount ruggedised broad band Dipole

The B19-ASR-164 VHF broad band ruggedised dipole provides a high strength high quality fixed position antenna solution with no compromise in construction or performance. It is ideal for omnidirectional low power transmit and receive applications up to 100 Watts. Ideal for high wind and high load environments.

Mounting clamps, coaxial feeder cables, connectors and other installation accessories are all available separately.

Specifications	B19-SAR-164
Construction	Heavy duty White fibreglass radome and mount tube
Frequency Range	VHF 148-174MHz Band
Maximum Bandwidth	Specify any 6.75%
Return Loss, VSWR	<1.5:1 VSWR across specified bandwidth
Tuning	Factory
Gain	0 dBd
Maximum Power	100 Watts
Impedance (nominal)	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° Omnidirectional, ± 0.5 dBd
E Plane	66°
Connector	N-type female in base of mount section or with cable tail.
Height at Lowest Frequency	2 .65 metres (@ 148MHz)
Weight	2.5Kg at lowest frequency
Projected Area	0.05m ²
Wind Load at 160kph	4.5Kg, 0.0441kN
Mount Tube Diameter	40mm
Mounting Accessories (order seperate)	2 x EB1-SS or 1 x UB3-SS
Mounting Position (recommended)	Mount as high as possible on your structure, mast or tower using the appropriate mounting clamps



VHF Sidemount Dipoles

VHF 38-85MHz

These VHF sidemount dipoles provide exceptionally broad bandwidth with each model covering an entire communication band.

They are perfect for use as a fixed position antenna in low band communication systems and numerous other applications

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

Specifications	B39	B40	B41
Construction	Aluminium	Aluminium	Aluminium or add SS for stainless steel
Frequency Range	VHF 38-44MHz	VHF 45-50MHz	VHF 70-85MHz
Bandwidth	Full band	Full band	Full band
Return Loss, VSWR	<1.5:1 across full band		
Tuning	Factory	Factory	Factory
Gain	0 dBd for a single bay, stacking increases gain		
Maximum Power	250 Watts	250 Watts	250 Watts
Impedance (nominal)	50 Ohms	50 Ohms	50 Ohms
DC Grounding	Yes	Yes	Yes
Polarisation	Vertical	Vertical	Vertical
Cable Tail	1 metre RG213	1 metre RG213	1 metre RG213
Connector (fitted)	N-female	N-female	N-female
Dipole Height	3.0 metres	2.7 metres	2.0 metres
Weight	7Kg	4Kg	2.8Kg in Aluminium 3.9Kg in S/Steel
Projected Area	0.167m ²	0.162m ²	0.129m ²
Wind Load at 160kph	0.198kN	0.193kN	0.153kN
Mount Tube	3.0m x 48mm	3.0m x 48mm	1.8m x 40mm
Mounting Accessories (order separate)	1 x Y2300		1 x Y2300 - B41 1 x Y2300SS - B41SS



B43 & B44

VHF 148-174MHz or UHF 400-520MHz

Sidemount Dipoles

This selection of sidemount dipoles are designed for VHF or UHF communication systems. Each model covers one of the designated bands.

The exceptionally broad bandwidth and reliable construction make sidemount dipoles perfect for use as a fixed position antenna.

Coaxial feeder cables, bird-proofing, connectors and other installation accessories are all available separately.

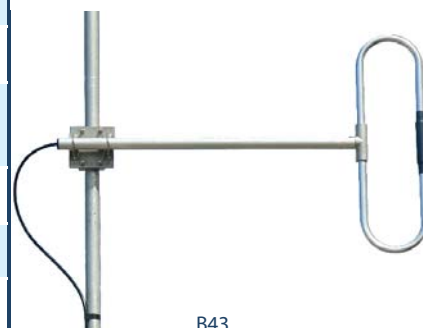
Specifications	B43	B44
Construction	Aluminium, for stainless models add "SS"	
Frequency Range	VHF 148-174MHz	UHF 400-520MHz
Bandwidth	Full band	Full band
Return Loss, VSWR	<1.5:1 across bandwidth	
Tuning	Factory	Factory
Gain	0 dBd for a single bay, stacking increases gain	
Maximum Power	250 Watts	250 Watts
Impedance (nominal)	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Polarisation	Vertical	Vertical
Cable Tail	1 metre RG213	500mm RG58
Connector (fitted)	N-type female	N-type female
Dipole Height	785mm	290mm
Weight	2.0Kg aluminium 3.0Kg S/Steel	0.5Kg aluminium 0.8Kg S/Steel
Projected Area	0.047m ²	0.011m ²
Wind Load at 160kph	5.7Kg	1.274Kg
Mount Tube	1.0m long x 40mm diameter	300mm long x 32mm diameter
Mounting Accessories (order separately)	1 x Y2300 or 1 x Y2300-SS	1 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 clamps.	



B44



B44SS



B43

B65 & B88 Series

UHF 600-960MHz

Flange or Mast Mount Sidemount Dipoles

These sidemount dipoles provide genuine broadband coverage in the UHF frequency range 600 to 960MHz.

Traditionally folded dipoles are mounted so as to use the mast or tower as a reflector. Pattern formation and gain can be varied by altering dipole to mast spacing, or by mounting in stack array formations.

Mounting clamps, coaxial feeder cables, connectors and other installation accessories are all available separately.

Specifications	B65 and B65F	B88 and B88F
Construction	Stainless Steel	Stainless Steel
Frequency Range	UHF 600-820MHz	UHF 800-960MHz
Bandwidth	Full band	Full band
Tuning	Factory	Factory
Return Loss, VSWR	<1.5:1 across full band	
Gain	0 dBd for a single bay, stacking increases gain	
Maximum Power	25 Watts	25 Watts
Impedance (nominal)	50 Ohms	50 Ohms
E and H Plane	Varies according to the mounting arrangement	
Polarisation	Mount Horizontal or Vertical as required	
DC Grounding	Yes	Yes
Cable Tail	600mm RG58 Low Loss (bottom exits mount section)	
Connector (fitted)	N-type female	N-type female
Dipole Height	190mm	150mm
Mount Tube Length	300mm	300mm
Mount Tube Diameter	25mm	25mm
Weight	420grams	400grams
Mounting B65 & B88	1 x RB8 (order separate)	
Mounting B65F & B88F	PVC flange fitted to base, mount using 2 screws or bolts	
Mounting Position (recommended)	Mount as high as possible on your structure, mast or tower using the appropriate bracket or flange mount	



B88



B65F



B65

VHF Stack Dipole Arrays

VHF 148-174MHz

2-Stack or 4-Stack

These 2 stack and 4 stack dipole arrays cover the full VHF frequency range 148 to 174MHz.

There are various methods of mounting these dipole stack arrays to a mast or tower. Please consult ZCG for advice about the best solution for your mounting arrangement.

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

Specifications	S2B43-1C	S4B43-1C
Construction	Aluminium, add SS for stainless steel	
Dipoles in array	2	4
Frequency	VHF 148-174MHz	
Bandwidth	Full band	Full band
Return Loss, VSWR	<1.5:1 across full band	
Tuning	Factory	Factory
Gain	4.5 dBd	7 dBd
Maximum Power	250 Watts	250 Watts
Impedance (nominal)	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Polarisation	Vertical	Vertical
H Plane	240°	240°
E Plane	33°	16°
Connector	N-type female in base of mount section	
Mount tube	3.3m x 50mm	5.6m x 50mm
Weight	9Kg in aluminium 15Kg in stainless steel	16Kg in aluminium 28Kg in stainless steel
Projected Area	0.200m ²	0.362m ²
Wind Load at	24Kg, 0.239kN	44Kg, 0.429kN
Mounting Accessories (order separate)	2 x UAM180L (top & bottom) or consult ZCG for advice	3 x UAM180L (top, middle and bottom) or consult ZCG for advice



UHF Dipole Stack Arrays

UHF 400-520MHz

2-Stack or 4-Stack

These UHF dipole stack arrays come in both 2 stack and 4 stack formations depending on your gain requirements.

If a power rating higher than 250 Watts is required, please contact ZCG for advice.

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

Specifications	S2B44-1C	S4B44-1C
Construction	Aluminium, or add SS for stainless steel	
Dipoles in Array	2	4
Frequency	UHF 400-520MHz	
Bandwidth	Full band	Full band
Return Loss, VSWR	<1.5:1 across full band	
Tuning	Factory	Factory
Gain	4.5 dBd	7 dBd
Maximum Power	250 Watts	250 Watts
Impedance (nominal)	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Polarisation	Vertical	Vertical
H Plane	240°	240°
E Plane	33°	16°
Connector	N-type female in base of mount section	
Mount Tube	1.5m x 50mm	2.5m x 50mm
Weight	6Kg in aluminium 9Kg in stainless steel	10Kg in aluminium 15Kg in stainless steel
Projected Area	0.150m ²	0.248m ²
Wind Load at 160kph	18.6Kg, 0.183kN	30Kg, 0.294kN
Mounting Accessories (order separate)	2 x UAM180L or consult ZCG for advice	



UHF Binary Dipole Array

UHF 400-520MHz

1-8 dipole set array

The binary dipole array offers both an omnidirectional radiation pattern and genuine broadband coverage across the entire UHF frequency range.

The array is therefore ideally suited for multiple frequency transmissions at highly populated radio sites.

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

Specifications	DUA4052AL	DUA4052SS
Construction	Aluminium	Stainless Steel
Frequency Range	UHF 400-520MHz	
Bandwidth	Full band	Full band
Return Loss, VSWR	<1.5:1 across full band	
Tuning	Factory	Factory
Gain	3 dBd	3 dBd
Maximum Power	500 Watts	500 Watts
Polarisation	Vertical	Vertical
H Plane	360° Omnidirectional, ± 0.5 dBd	
E Plane	32°	32°
Impedance	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Cable Tail	1.0 metre double shielded RG223	
Connector (fitted)	N-type female	
Projected Area	0.093m ²	0.093m ²
Wind Load at 160kph	11.267Kg, 0.110kN	
Height	2.5 metres	
Dipole Height	41.5cm	
Mount tube	48.4mm	
Weight	5.1Kg	10Kg
Mounting Accessories (order separte)	2 x UAM180L or consult ZCG for advice	



Other Models Available

DUA-4052AL-2	2dBd, 1 set of dipoles, 2.0m
DUA4052-6 DUA4052SS-6	6 dBd, 4 sets of dipoles, 3.2m
DUA4052-9 DUA4052SS-9	9 dBd, 8 set of dipoles, 7.2m

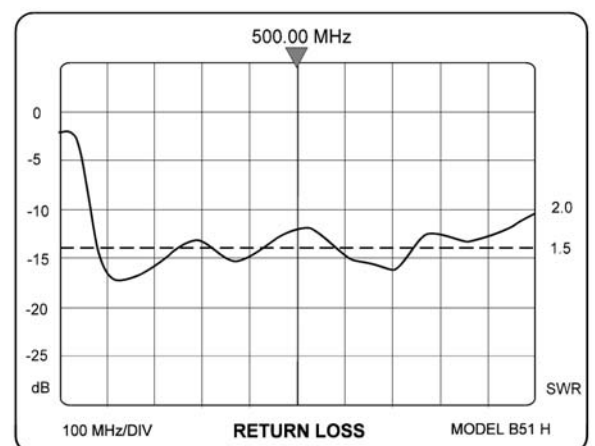
B51H and B51HSS

VHF & UHF Omnidirectional Broadband Discone

The B51H and B51HSS fixed position discons provide an omnidirectional radiation pattern, low VSWR and genuine broadband coverage for both transmit and receive across the full VHF & UHF frequency band 70-1000MHz.

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

Specifications	B51H	B51HSS
Construction	Aluminium	Stainless Steel
Frequency Range	VHF & UHF 70-1000MHz	
Bandwidth	Full band	
VSWR	<2:1 across entire range	
Tuning	Factory	
Gain	0 dBd	
Max Input Power	100 Watts	
Impedance	50 Ohms	
DC Grounding	No	
Polarisation	Vertical	
H Plane	360° omnidirectional, ± 0.5 dBd	
E Plane	83° at 100MHz	
Connector	N-type female in base of mount section	
Height	1.2 metres	
Weight	6.0Kg	9.5Kg
Projected Area	0.167m ²	
Wind Load at 160kph	31.449Kg, 0.308kN	
Mount Tube	40mm diameter	
Mounting Accessories (order separate)	2 x EB1-SS or 1 x UB3-SS	



B50RX

VHF & UHF Omnidirectional Broadband Lightweight Receive Discone

The B50RX fixed position broadband receive discone provides an omnidirectional radiation pattern and coverage for receive across the full frequency band 65-520MHz.

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

Specifications	B50RX
Construction	Aluminium
Frequency Range	VHF & UHF 65-520MHz
Bandwidth	Full band
VSWR	Receive only
Tuning	Factory
Impedance	50 Ohms
DC Grounding	No
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
Connector	N-type female in base of top
Height	1.64 metres
Weight	1.5Kg
Projected Area	0.106m ²
Wind Load at 160kph	12.7Kg, 0.125kN
Mounting Accessories (supplied)	2 x 19mm diameter Stainless steel U-Bolts
Mounting Position (recommended)	Mount as high on your structure, mast or tower using an 19mm diameter extension pole the supplied U-bolts



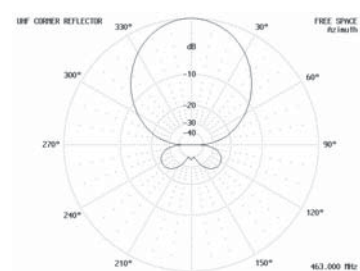
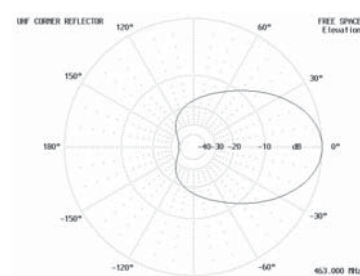
VHF and UHF Corner Reflectors

When you require good gain together with a high front-to-back ratio, a corner reflector will provide the ideal fixed position antenna solution.

Both RA3 and RA4 models are simple to assemble with the dipole mounting position clearly indicated with a red adhesive band.

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

Specifications	RA3	RA4
Construction	Aluminium and galvanised steel	Aluminium
Frequency Range	VHF 148-174MHz	UHF 400-520MHz
Bandwidth	Specify any 7.5%	Specify any 20MHz
Return Loss, VSWR	<1.5:1 across specified bandwidth	
Tuning	Factory	Factory
Gain	7.5 dBd	10 dBd
Maximum Power	500 Watts	500 Watts
Impedance (nominal)	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Polarisation	Mount Horizontal or Vertical as required	
H Plane	51°	47°
E Plane	56°	53°
Front-to-Back Ratio	30 dB	30 dB
Connector	N-type female located in the base of the dipole	
Reflector Grid Dimensions	1250mm x 1250mm	650mm x 550mm
Weight	12Kg	5Kg
Projected Area	0.811m @ 152MHz	0.261 @ 410MHz
Wind Load at 160kph	0.963kN	0.309kN
Mouting Accessories (supplied)	2 x Y2300	2 x U-bolts, for 20-50mm masts



Monocones

VHF 70-174MHz or

UHF 400-520MHz

Monocones offer genuine broadband coverage and an omnidirectional radiation pattern. With integral ground plane, monocones also provide a low angle of radiation comparable with centre fed dipoles.

The B54 is factory tuned to cover three 7MHz segments, specify one, or enquire for a customised segment.

Mounting clamps, coaxial feeder cables, connectors and other installation accessories are all available separately.

Specifications	B54SS	B56SS	B57
Construction	Fibreglass radome, stainless steel radials and mount tube	Fibreglass radome, stainless steel radials and mount tube	Fibreglass radome, stainless steel radials and aluminium mount tube
Frequency Range	70-85MHz	VHF 148-174MHz	UHF 400-520MHz
Bandwidth	Full Band	Full Band	Specify 40MHz
Return Loss, VSWR	<1.5:1 across bandwidth		
Tuning	Factory	Factory	Factory
Gain	0 dBd	0 dBd	0 dBd
Maximum Power	500 Watts	500 Watts	100 Watts
Impedance (nominal)	50 Ohms	50 Ohms	50 Ohms
DC Grounding	Yes	Yes	Yes
Polarisation	Vertical	Vertical	Vertical
Cable Tail	1 metre RG213	None	None
Connector	N-type female fitted	N-type female in base of mount section	
Height	1.5 metres	1.3 metres	650mm
Weight	5Kg	5Kg	4Kg
Projected Area	0.184m ²	0.112m ²	0.020m ²
Mounting Accessories (order separate)	2 x EB1-SS or 1 x UB3-SS		
Mounting Position (recommended)	Mount as high on your structure, mast or tower as possible using the appropriate mounting clamps.		

B57



B56SS



NEW

M56SS-MIL-UHF

UHF 340-380MHz

MIL-SPEC Monocone

Designed and manufactured for naval military conditions and terrain the M56SS-MIL-UHF is suited for mounting to either a naval vessey or structure.

With an omnidirectional radiation pattern and integral ground plane, this monocone produces a low angle of radiation making it comparable with centre-fed dipoles

Mounting clamps, coaxial feeder cables, connectors and other installation accessories are all available separately.

Specifications	M56SS-MIL-UHF
Construction	Grey radome, stainless steel radials and mount tube
Frequency	UHF 340-380MHz
Bandwidth	Full band
VSWR	<1.5:1 VSWR across full band
Tuning	Factory
Gain	0 dBd
Maximum Power	500 Watts
Impedance (nominal)	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
E Plane	65° (vertical beamwidth)
Connector (fitted)	N-type female weather sealed at base of mount section
Height	1.5 metres
Weight	3.2Kg
Projected Area	0.61m ²
Wind Load at 160kph	0.072kN, 7.34Kg
Mount Tube	38mm
Mounting Accessories (order seperate)	2 x EB1-SS or 1 x UB3-SS or consult ZCG for advice
Mounting Position (recommended)	Mount as high on your vessel, structure mast or tower as possible using the appropriate mounting clamps



NEW

M56SS-MIL-VHF40

VHF 135-175MHz

MIL-SPEC Monocone

Designed and manufactured for naval military conditions and terrain the M56SS-MIL-VHF40 is suited for mounting to either a naval vessey or structure.

With an omnidirectional radiation pattern and integral ground plane, this monocone produces a low angle of radiation making it comparable with centre-fed dipoles

Mounting clamps, coaxial feeder cables, connectors and other installation accessories are all available separately.

Specifications	M56SS-MIL-VHF40
Construction	Grey radome, stainless steel radials and mount tube
Frequency	VHF 135-175 MHz
Bandwidth	Full band
Return Loss, VSWR	Better than 1.5:1 VSWR across full band
Tuning	Factory
Gain	0 dBd
Maximum Power	500 Watts
Impedance (nominal)	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
E Plane	65° (vertical beamwidth)
Connector (fitted)	N-type female weather sealed at base of mount section
Height	1.57metres
Weight	3.8Kg
Projected Area	0.065m ²
Wind Load at 160kph	0.078kN, 7.9Kg
Mount Tube	38mm
Mounting Accessories (order seperate)	2 x EB1-SS or 1 x UB3-SS or consult ZCG for advice
Mounting Position (recommended)	Mount as high on your vessel, structure mast or tower as possible using the appropriate mounting clamps



B20G-N-AMFM

AM/FM Receive

Mast Mount Collinear

To boost AM and FM radio reception, the B20G-N-AMFM ground independent mast mount antenna offers superb performance. Alternatively, it can be side mounted from any flat vertical surface.

All components used in construction are of the highest quality to ensure the antenna will survive the harshest environment for many years.

Mounting clamps, coaxial feeder cables, connectors and other installation accessories are all available separately.

Specifications	B20G-N-AMFM
Construction	White fibreglass radome and stainless steel mount tube
Frequency	AM 530-1600KHz, FM 87.5-108.5MHz
Tuning	Factory
Gain	Receive only
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
Connector	N-type female in base of mount section
Height	3.4 metres
Weight	1.5Kg
Mount Tube	500mm long x 32mm diameter
Mast Mounting Accessories (order seperate)	2 x EB1-SS or 1 x UB3-SS
Side Mounting Accessories (order seperate)	2 x NSM-CL3642
Mounting Position (recommended)	Mount as high on your vessel,structure, mast or tower as possible using the appropriate mounting clamps/mounts



FMRX

FM Radio 87.5-108.5MHz

FM Radio Receive Collinear

The FMRX is an economical and effective fixed position solution to those seeking to improve their FM radio reception at home or in the office, particularly in situations where signal strength indoors is poor.

Mounting clamps, coaxial feeder cables, connectors and other installation accessories are all available separately.

Specifications	FMRX
Construction	Black radome, aluminium ferrule and galvanised 'L' bracket
Frequency	FM 87.5-108.5MHz
Bandwidth	Full band
Tuning	Factory
Gain	0 dBd (receive only)
Cable	6 metres of RG58 stranded (side exit)
Cable termination	To rear panel of FM radio tuner
Height	2.06 metres
Weight	500 grams
Mounting Accessories (supplied)	Screw 'L' bracket to vertical surface
Mounting Position (recommended)	Mount as high on your structure, mast or pole as possible using the 'L' bracket to extend past gutters or overhangs.



GRHT-200

Ground Independent VHF Stainless Steel Whip

The GRHT-200 ground independent stainless steel whip is specifically designed and manufactured to suit wireless microphone transmission and receive at the VHF 174-220MHz range.

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

Specifications	GRHT-200
Construction	Stainless steel whip, black delrin base, chrome plated fittings
Frequency Range	174 - 220MHz
Bandwidth	2%
Tuning	Field tune using SWR meter
VSWR	1.5:1
Gain	2.1 dBi
Maximum Power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° Omnidirectional
Height	800mm
Weight	150grams
Connector (supplied)	UHF Male in base of antenna
Mounting Accessories (order separate)	7994 / RA-4.7 or MGB-UHF
Mounting Position (recommended)	Mount as high on your vehicle or structure as possible using an appropriate base and 16mm bracket or magnetic base



Y100 Series

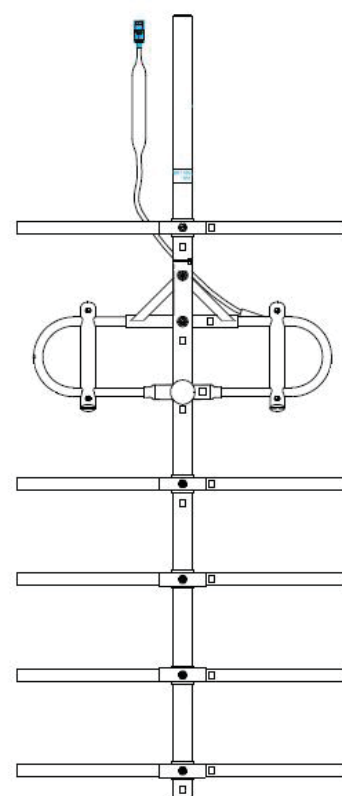
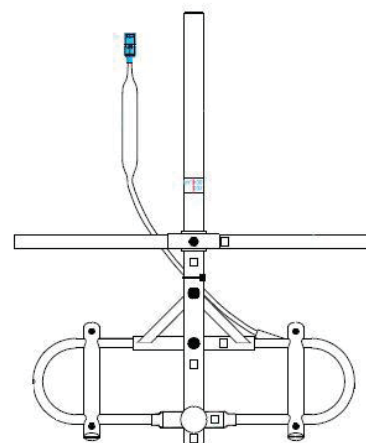
VHF 40-69MHz

Single Dipole Yagi's

The Y100 series Yagi's are specifically designed and manufactured for the VHF frequency range 40-69MHz.

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

Specifications	Y102	Y103	Y104	Y106
Construction	Aluminium, Y103 available in Stainless steel (304 grade)			
Frequency Range	40-69MHz			
Bandwidth	Any 2% (specify Transmit and Receive when ordering)			
Tuning	Factory	Factory	Factory	Factory
Return Loss, VSWR	<1.5:1 across specified bandwidth			
Number of Elements	2	3	4	6
Gain (nominal)	3 dBd	6 dBd	7.5 dBd	9 dBd
Polarisation	Mount Horizontal or Vertical as required			
Maximum Power	250 Watts	250 Watts	250 Watts	250 Watts
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
H Plane at 3 dBd	135°	76°	62°	50°
E Plane at 3 dBd	70°	57°	54°	46°
Front-to-Back Ratio	15 dB	14 dB	14 dB	16 dB
Connector (fitted)	N-type female fitted to 1.5 metres RG213			
Boom Length at 40MHz	2.2 metres	3.4 metres	4.6 metres	6 metres
Longest Element	3.7 metres	3.7 metres	3.7 metres	3.7 metres
Weight	Alum S/Steel	- 6Kg - N/A	- 8Kg - 10Kg	- 10Kg - N/A
Projected Area	0.31m ²	0.47m ²	0.60m ²	0.80m ²
Wind Load at 160kph	40Kg	60Kg	76Kg	106Kg
Strut Kit	YS1-100 or YS1-200 (order separately)			
Mounting Accessories (order separte)	1 x Y2300 for Aluminium or 1 x Y2300-SS for stainless steel			



Y200 Series

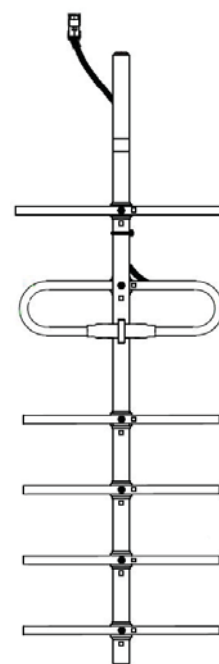
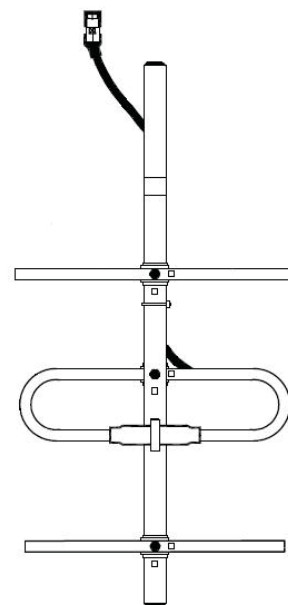
VHF 70-108MHz

Single Dipole Yagi's

The Y200 series yagis are specifically designed and manufactured to cover the VHF frequency range 70-108MHz.

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

Specifications	Y202	Y203	Y204	Y206	
Construction	Aluminium, or add SS for stainless steel (304 grade)				
Frequency Range	VHF 70-108MHz				
Bandwidth	Any 4% (specify Transmit and Receive when ordering)				
Tuning	Factory	Factory	Factory	Factory	
Return Loss, VSWR	<1.5:1 across specified bandwidth				
Number of Elements	2	3	4	6	
Gain (nominal)	3 dBd	6 dBd	7.5 dBd	9 dBd	
Polarisation	Mount Horizontal or Vertical as required				
Maximum Power	250 Watts	250 Watts	250 Watts	250 Watts	
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms	
H Plane at 3 dBd	135°	76°	62°	50°	
E Plane at 3 dBd	70°	57°	54°	46°	
Front-to-Back Ratio	15 dB	14 dB	14 dB	16 dB	
Connector (ftted)	N-female fitted to 1.4 metres RG213				
Boom length at 70MHz	1.8 metres	2.7 metres	3.5 metres	5 metres	
Longest Element	2.2 metres	2.2 metres	2.2 metres	2.2 metres	
Weight	Alum S/Steel	- 3.2Kg - 4Kg	- 4Kg - 5Kg	- 5.5Kg - 6.9Kg	- 7Kg - 8.8Kg
Projected Area	0.137m ²	0.28m ²	0.30m ²	0.34m ²	
Wind Load at 160kph	16Kg	33Kg	36Kg	41Kg	
Strut Kit (order seperate)	YS1-23 (single) or YS2-23 (2-way)				
Mounting Accessories (order seperate)	1 x Y2300 for Aluminium or 1 x Y2300-SS for Stainless Steel				



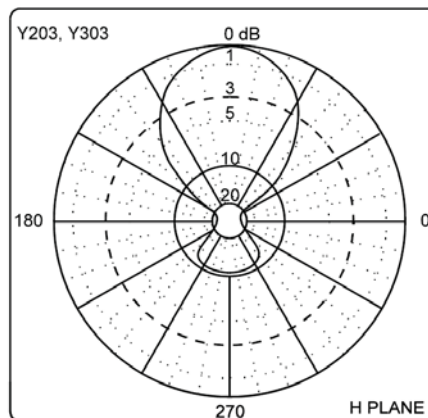
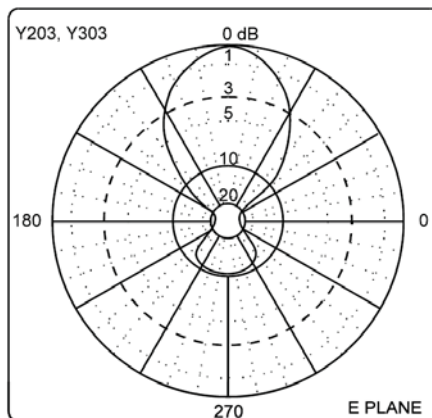
Y200 Series

VHF 70-108MHz

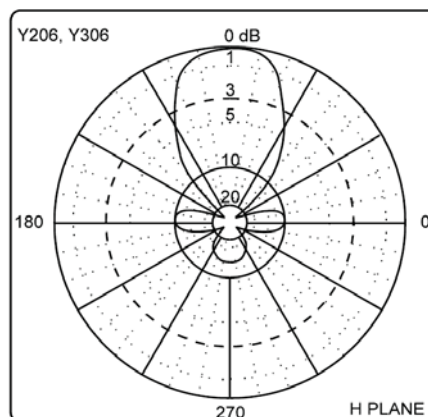
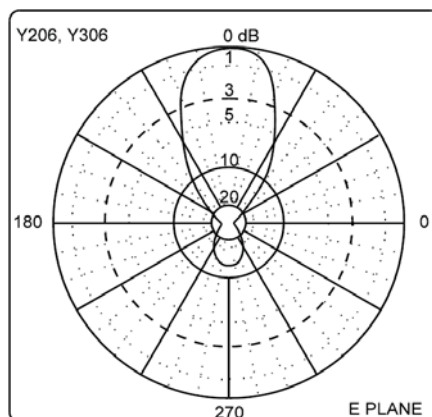
Single Dipole Yagi's

Sample Radiation Patterns

Y203, 3 Element



Y206, 6 Element



Y300 Series

VHF 100-250MHz

Single Dipole Yagi

The Y300 series yagi are specifically designed and manufactured for the VHF 100-250MHz frequency range.

For lower gain the Y302 or Y303 models are your ideal choice. Please consult the following page for more information.

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

Specifications	Y304	Y306	Y309
Construction	Aluminium, or add SS for stainless steel (304 grade)		
Frequency Range	VHF 100-250MHz		
Bandwidth	Any 4% (specify Transmit and Receive when ordering)		
Tuning	Factory	Factory	Factory
Return Loss, VSWR	<1.5:1 across specified bandwidth		
Number of Elements	4	6	9
Gain (nominal)	7.5 dBd	9 dBd	11.5 dBd
Polarisation	Mount Horizontal or Vertical as required		
Maximum Power	250 Watts	250 Watts	250 Watts
Impedance	50 Ohms	50 Ohms	50 Ohms
H Plane at 3 dBd	62°	50°	43°
E Plane at 3 dBd	54°	46°	36°
Front-to-Back Ratio	14 dB	16 dB	17 dB
Connector (fitted)	N-type female fitted to 1.4 metres RG213		
Boom Length at 100MHz	2.2 metres	3 metres	4 metres
Longest Element	1.3 metres	1.3 metres	1.3 metre
Weight	Alum - 2.6Kg S/Steel - 3.9Kg	Alum - 3Kg S/Steel - 4.5Kg	Alum - 5.5Kg S/Steel - 8.3Kg
Projected Area	0.195m ²	0.230m ²	0.265m ²
Wind Load at 160kph	23.9Kg	28Kg	32Kg
Strut Kit (order separete)	YS1-23 (single) or YS2-23 (2-way)		
Mounting Accessories (order separete)	1 x Y2300 for Aluminium or 1 x Y2300SS for Stainless steel		



Y300 Series

VHF 100-250MHz

Single Dipole Yagi

The Y302 and Y303 yagis are specifically designed and manufactured for the VHF 100-250MHz frequency range, these two models are the lower gain models in the Y300 series.

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

Specifications	Y302	Y303
Construction	Aluminium, or add SS for stainless steel (304 grade)	
Frequency Range	VHF 100-250MHz	
Bandwidth	Any 4% (specify Transmit and Receive when ordering)	
Tuning	Factory	Factory
Return Loss, VSWR	<1.5:1 across specified bandwidth	
Number of Elements	2	3
Gain (nominal)	3 dBd	6 dBd
Polarisation	Mount Horizontal or Vertical as required	
Maximum Power	250 Watts	250 Watts
Impedance	50 Ohms	50 Ohms
H Plane at 3 dBd	135°	76°
E Plane at 3 dBd	70°	57°
Front-to-Back Ratio	15 dB	14 dB
Connector (fitted)	N-female fitted to 1.4 metres RG213	
Boom Length at 100MHz	1.4 metres	1.8 metres
Longest Element	1.3 metres	1.3 metre
Weight	Alum - 2Kg S/Steel - 3Kg	Alum - 2.4Kg S/Steel - 3.6Kg
Projected Area	0.160m ²	0.170m ²
Wind Load at 160kph	19Kg	21Kg
Strut Kit (order separate)	YS1-23 (single) or YS2-23 (2-way)	
Mounting Accessories (order separate)	1 x Y2300 for Aluminium or 1 x Y2300-SS for Stainless steel	



Y303HHF & Y403HH

VHF 100-250MHz or UHF 380-700MHz

Aluminium Fold-Down Hand-held Yagi

These hand-held yagi's are specifically designed and manufactured for ease of storage with a customised fold-down design.

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

Specifications	Y303HHF	Y403HH
Construction	Aluminium, coaxial cable and white PVC handle	
Frequency Range	VHF 100-250MHz	UHF 380- 700MHz
Bandwidth	4% (specify when ordering)	20MHz (specify when ordering)
Tuning	Factory	
VSWR	<1.5:1 VSWR across specified bandwidth	
Number of Elements	3	3
Gain (nominal)	6 dBd	6 dBd
Polarisation	Horizontal or Vertical as required	
Maximum Power	75 Watts	75 Watts
Impedance	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Connector (fitted)	BNC female fitted to RG59 Cable tail (specify length)	N-female fitted to RG59 cable tail (specify length)
Boom Length	1200mm	450mm
Max. Element Length	1513mm	398mm
Boom Diameter	22.22mm	22.22mm
Weight	2.5Kg	1.8Kg
Mounting Accessories (supplied)	Thermoplastic handle (supplied)	
Mounting Position (recommended)	When in use hold as far away from metallic objects, structures, trees and your body to achieve specified performance levels	



NEW

Y400 Round Boom Yagi

UHF 380-520MHz

Round Boom A, B, C, D & E

The ZCG Y400 series round boom Yagi's are a cost effective equivalent to ZCG's premium square boom Yagi's. Available in A, B, C, D and E models set to a segment of the UHF range 380-520MHz.

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.

Specifications	Y406	Y409	Y415
Fixed Frequency Models (select letter when ordering)	A-R = 380-400MHz B-R = 400-420MHz C-R = 420-450MHz D-R = 450-480MHz E-R = 480-520MHz		
Construction	Aluminium boom and dipole		
Tuning	Factory	Factory	Factory
Return Loss, VSWR	<1.5:1 VSWR 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	Yes	Yes
Maximum Power	50 Watts	50 Watts	50 Watts
Impedance	50 Ohms	50 Ohms	50 Ohms
H Plane (at centre)	50°	44°	37°
E Plane (at centre)	46°	36°	33°
Front-to-Back Ratio	>15 dB	>17 dB	>17 dB
Connector (fitted)	N-type female fitted to 200mm RG59 cable tail		
Boom Length (longest)	1.2 metres	1.7 metres	2.5 metres
Longest Element	400mm	400mm	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 Accessories (order sepearte)	1 x RB8 or 1 x RB8-L		1 x RB8 or 1 x RB8-L 1 x strut kit



Y706A-R

Round Boom Yagi

700-760MHz

The Y706A-R round boom directional yagi is designed and manufactured for optimum performance across the 700 to 760MHz range.

The round boom design matches the ZCG premium square boom yagi performance and radiating levels.

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

Specifications	Y706A-R
Construction	Aluminium
Frequency	700-760MHz
Tuning	Factory
Return Loss, VSWR	Better than -15dB, 1.5:1 across fixed bandwidth
Number of Elements	6
Gain (nominal)	9 dBd
Polarisation	Mount Horizontal or Vertical as required
Maximum Power	50 Watts
Impedance	50 Ohms
H Plane (at 3dB)	56°
E Plane (at 3dB)	48°
Front-to-Back Ratio	15dB
Connector (fitted)	N-female
Boom Length	0.865 metres
Longest Element	190mm
Weight in aluminium	550grams
Projected Area	0.022m ²
Wind Load at 160kph	0.026kN 2.607Kg
Mounting Accessories	RB8, RB8-L (order separate)



NEW

Y800 Series

UHF Mobile Phone Round Boom Yagi A, B & C

The ZCG Y800 series round boom Yagi's are a cost effective equivalent to ZCG's premium square boom Yagi's. Available in A, B and C models set to a segment of the UHF Mobile Phone range 820-960MHz.

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.

Specifications	Y806	Y809	Y815
Fixed Frequency Models (select letter when ordering)	A-R = 825-890MHz (Telstra 3G) B-R = 870-930MHz C-R = 890-960MHz (GSM)		
Construction	Aluminium boom and dipole		
Tuning	Factory	Factory	Factory
Return Loss, VSWR	<1.5:1 VSWR 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	Yes	Yes
Maximum Power	50 Watts	50 Watts	50 Watts
Impedance	50 Ohms	50 Ohms	50 Ohms
H Plane (at centre)	51°	42°	30°
E Plane (at centre)	46°	34°	28°
Front-to-Back Ratio	>15 dB	>15 dB	>15 dB
Connector (fitted)	N-type female fitted to 200mm RG59 cable tail		
Boom Length (longest)	0.8 metres	0.97 metres	1.85 metres
Longest Element	210mm	210mm	210mm
Weight in aluminium	0.5Kg	0.7Kg	1Kg
Projected Area	0.035m ²	0.054m ²	0.075m ²
Wind Load at 160kph	4.5Kg	6.5Kg	9.5Kg
Mounting Accessories (order separate)	1 x RB8 or 1 x RB8-L		1 x RB8 or 1 x RB8-L 1 x strut kit



NEW

Y415-DD-RSB

UHF 470 & 610MHz

Dual Dipole Split Round Boom Yagi

The Y415-DD-RSB split round boom Yagi is designed and manufactured for optimum performance at UHF 470 and 610MHz frequencies.

The split round boom design allows for a 15 element Yagi to be packaged and stored in a smaller volume, meaning savings on courier fees and storage space.

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

Specifications	Y415-DD-RSB
Construction	Two-piece Aluminium and Moulded Dual Dipole
Frequency	UHF 470 and 610MHz
Tuning	Factory
VSWR	<1.5:1 VSWR at both frequencies
Number of Elements	15
Gain (nominal)	12 dBd
Polarisation	Mount Horizontal or Vertical as required
Maximum Power	50 Watts
Impedance	50 Ohms
H Plane (at 3dB)	35°
E Plane (at 3dB)	30°
Front-to-Back Ratio	20dB
Connector (fitted)	N-type female
Boom Length	2.101 metres
Longest Element	300mm
Weight in aluminium	2Kg
Projected Area	0.062m ²
Wind Load at 160kph	0.073kN 7.467Kg
Mounting Options (order separate)	1 x RB8-L and 1 strut kit 1 x RB8 and 1 strut kit



Y400 Series Yagi's

UHF 380-520MHz

Square Boom Yagi

The Y400 series of directional base station yagi's range from 3 to 15 element configuration depending on your gain requirements.

Y406, Y409 and Y415 fixed frequency models A, B, C, D and E are also available, please see 'Y400ABCDE' specification sheet.

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

Specifications		Y403	Y404	Y406	Y409	Y415
Construction		Aluminium, or add SS for stainless steel (304 grade)				
Frequency and Bandwidth		UHF 380-520MHz (specify 20MHz bandwidth)				
Tuning		Factory	Factory	Factory	Factory	Factory
Return Loss, VSWR		<1.5:1 across specified bandwidth				
Number of Elements		3	4	6	9	15
Gain (nominal)		6 dBd	7.5 dBd	9 dBd	11.5 dBd	14 dBd
Polarisation		Mount Horizontal or Vertical as required				
Maximum Power		150 Watts	150 Watts	150 Watts	150 Watts	150 Watts
Impedance		50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms
H Plane (at 3 dB)		76°	62°	50°	44°	37°
E Plane (at 3 dB)		57°	54°	46°	36°	33°
Front-to-Back Ratio		15 dB	17 dB	17 dB	17 dB	17 dB
Connector (fitted)		N-type female fitted to 250mm RG59 cable tail				
Boom Length (at 380MHz)		0.7 metres	0.9 metres	1.2 metres	1.7 metres	2.5 metres
Longest Element		400mm	400mm	400mm	400mm	400mm
Weight	Aluminium	0.4Kg	0.5Kg	0.7Kg	1Kg	1.3Kg
	Stainless Steel	0.9Kg	1.2Kg	1.6Kg	2.3Kg	3Kg
Projected Area		0.03m ²	0.04m ²	0.06m ²	0.09m ²	0.125m ²
Wind Load at 160kph		3.8Kg	5Kg	7Kg	9Kg	16Kg
Strut kit (order separately)		Not required				YS1-48 or YS2-48
Mounting Accessories (order separate)		1 x A48 for Aluminium or 1 x S48 for Stainless steel				

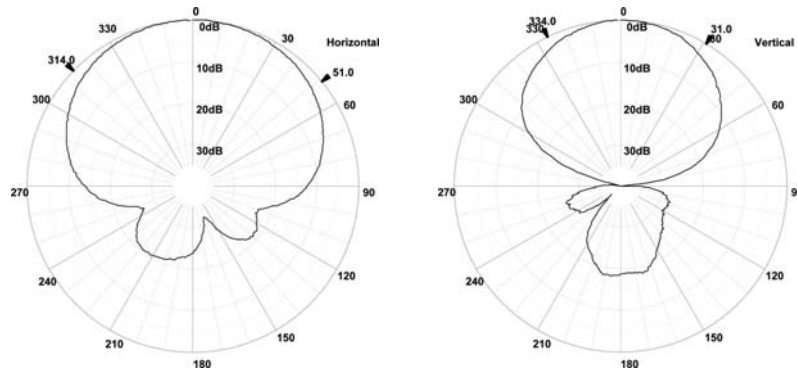


Y400 Series Yagi's

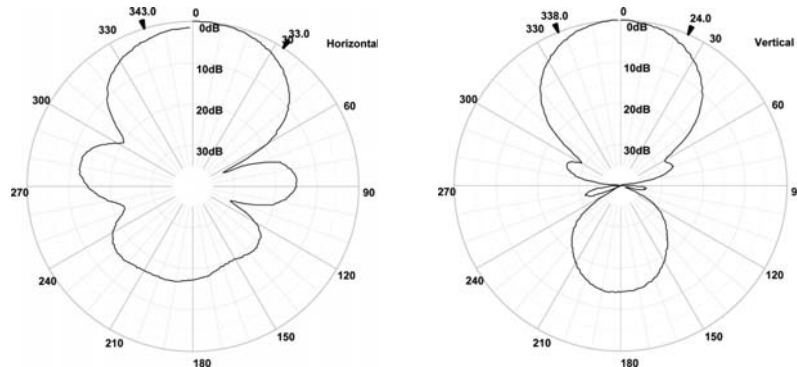
UHF 380-520MHz

Square Boom Yagi

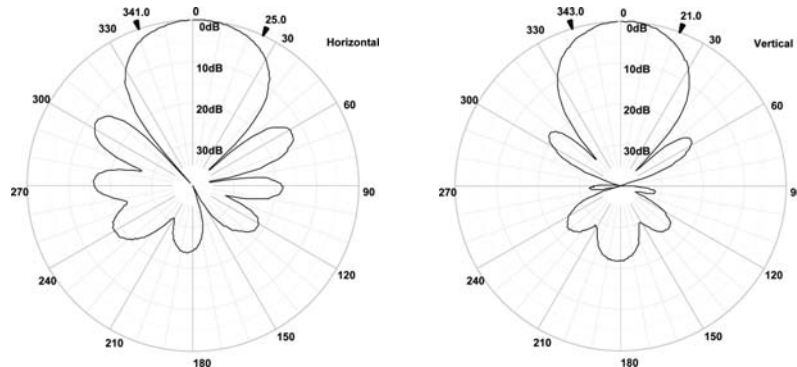
3 element Y403 at 520 MHz



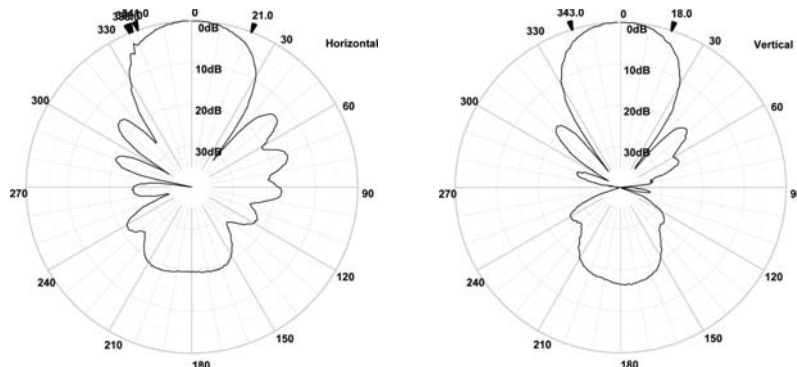
6 element Y406 at 470 MHz



9 element Y409 at 420 MHz



15 element Y415 at 450 MHz



Y400 Series Yagi's

UHF 380-520MHz

Square Boom Fixed Frequency A, B, C, D and E

The Y400 series of directional square boom Yagi's are manufactured in "fixed frequency" models A, B, C, D, and E each tuned for optimum performance across a separate segment of the UHF range 380-520MHz.

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

Specifications		Y406	Y409	Y415
Fixed Frequency Models (select letter when ordering)		A = 380-400MHz B = 400-420MHz C = 420-450MHz D = 450-480MHz E = 480-520MHz		
Construction		Aluminium, or add SS for 304 stainless steel		
Tuning		Factory	Factory	Factory
Return Loss, 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		
Maximum Power		150 Watts	150 Watts	150 Watts
Impedance		50 Ohms	50 Ohms	50 Ohms
H Plane (at 3dB)		50°	44°	37°
E Plane (at 3dB)		46°	36°	33°
Front-to-Back Ratio		17 dB	17 dB	17 dB
Connector (fitted)		N-female fitted to 250mm RG59 cable tail (D series has 400mm RG59 cable tail)		
Boom Length (at 380MHz)		1.2 metres	1.7 metres	2.5 metres
Longest Element		400mm	400mm	400mm
Weight	Aluminium Stainless steel	0.7Kg 1.6Kg	1.0Kg 2.3Kg	1.3Kg 3Kg
Projected Area		0.06m ²	0.09m ²	0.125m ²
Wind Load at 160kph		7Kg	9Kg	16Kg
Strut Kit (order separately)		Not required	Not required	YS1-48 or YS2-48
Mounting Accessories		1 x A48 for alum., 1 x S48 for S/Steel (order separately)		



Y406CP

UHF 380-700MHz

Circular Polarised Yagi

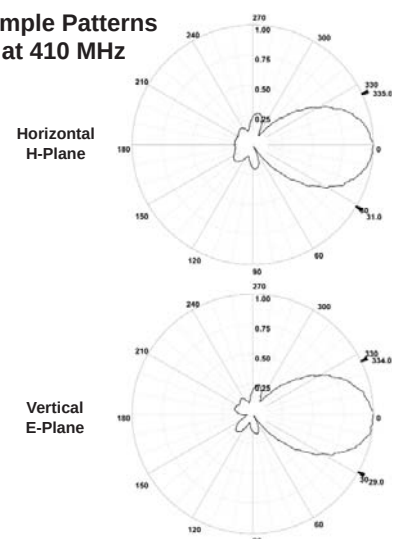
A cross polarised Yagi produces a circular elliptical radiation pattern which reduces unwanted reflection and refraction of signals. This improves transmit and receive performance, particularly in hilly terrain or where there are trees, wire fencing or steel structures in the signal path.

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

Specifications	Y406-CP
Construction	Aluminium
Frequency Range	UHF 380- 700MHz
Bandwidth	Specify any 20MHz
Tuning	Factory
Return Loss, VSWR	<1.5:1 VSWR
Cross Elements	6 (each plane)
Gain (nominal)	9 dBd per plane
Polarisation	Circular Elliptical
Maximum Power	150 Watts
Impedance	50 Ohms
DC Grounding	Yes
H Plane (each plane)	50 °
E Plane (each plane)	46 °
Connector	N-type female output on 2-way phasing harness (supplied)
Boom Length	1.2 metres @ 380MHz
Max. Element Length	0.4 metres @ 380MHz
Boom Diameter	25mm square
Weight	0.9Kg
Projected Area	0.078 m ²
Wind Load at 160kph	9.46Kg, 0.093kN
Mounting Accessories (order seperate)	1 x A48-AM or consult ZCG for advice



Sample Patterns
at 410 MHz



Broadband Yagi

UHF 350-450MHz or 400-520MHz

Dual Dipole Yagi

These 9 element UHF Yagi's feature a dual dipole design which produces a genuine broadband coverage with good performance and high gain.

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

Specifications	Y409-3545	Y409-4052
Construction	Aluminium boom and elements, stainless steel dipole Add SS for full stainless steel (304 grade)	
Frequency Range	UHF 350-450MHz	UHF 400-520MHz
Bandwidth	Full band	Full band
Tuning	Factory	Factory
Return Loss, VSWR	<1.5:1 full band	
Gain (nominal)	11.5 dBd	11.5 dBd
Polarisation	Mount Horizontal or Vertical as required	
Maximum Power	250 Watts	250 Watts
Impedance	50 Ohms	50 Ohms
H Plane	82°	82°
E Plane	55°	55°
Front-to-Back Ratio	20 dB	20 dB
Connector	N-type female fitted to 250mm RG58 low loss cable	
Boom Length	1.711 metres	1.475 metres
Longest Element	44cm	37cm
Weight in aluminium	1.5Kg	1.2Kg
Weight in stainless steel	3.5Kg	2.8Kg
Projected Area	0.80m ²	0.70m ²
Wind Load at 160kph	9.65Kg, 0.095kN	7Kg, 0.074kN
Mounting Accessories (order separate)	1 x A48 or A48-65 for aluminium 1 x S48 or S48-65 for Stainless steel	



Y409-AFP

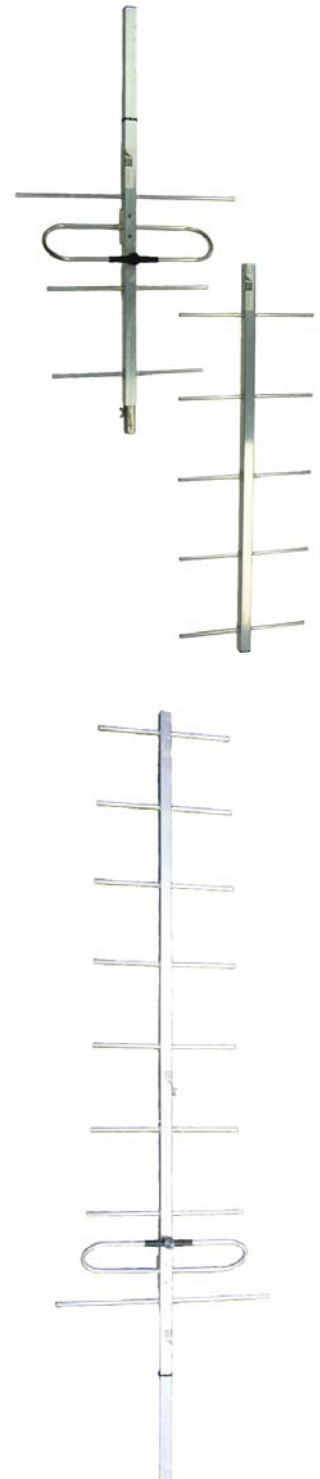
UHF 350-400MHz

Split Square Boom Yagi

The Y409-AFP split boom Yagi is specifically designed and manufactured for ease of storage with a specialised split boom configuration.

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

Specifications	Y409-AFP
Construction	Aluminium 2 piece split boom
Frequency Range	UHF 350- 400MHz
Bandwidth	Full band
Tuning	Factory
Return Loss, VSWR	<1.5:1 VSWR Full band
Number of Elements	9
Gain (nominal)	11.5 dBd
Polarisation	Mount Horizontal or Vertical
Maximum Power	150 Watts
Impedance	50 Ohms
DC Grounding	Yes
Connector (fitted)	N-type female fitted to 250mm RG59 cable tail
Boom Length	1.69m
Max. Element Length	460mm
Boom Diameter	25mm square
Weight	1.05Kg
Projected Area	0.09m ²
Wind Load at 160kph	9Kg
Mounting Accessories (order seperate)	1 x A48 or A48-65 - for larger mounting poles



Y415-DP

UHF 380-700MHz

Dual Polarised Yagi

A dual polarised Yagi gives the ability of sending two signals from one yagi with an offset of 90 degrees saving space on your mounting structure. This offset disallows the signals to interact with the other.

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

Specifications	Y415-DP
Construction	Aluminium
Frequency Range	UHF 380- 700MHz
Bandwidth	Specify any 20MHz per plane
Tuning	Factory
Return Loss, VSWR	<1.5:1 VSWR across specified bandwidth
Cross Elements	15 (each plane)
Gain (nominal)	14 dBd per plane
Polarisation	Horizontal & Vertical or +45 / -45 degrees
Maximum Power	150 Watts
Isolation	Minimum -25dB between polarisations
Impedance	50 Ohms
DC Grounding	Yes
H Plane (each plane)	37 °
E Plane (each plane)	33 °
Connector	2 x N-type female fitted to cable tails
Boom Length	2.1 metres at 380MHz
Max. Element Length	0.4 metres at 380MHz
Weight	900grams
Projected Area	0.107 m ² @ 380MHz
Wind Load at 160kph	12.9Kg, 0.126kN @ 380MHz
Mounting Accessories (order seperate)	1 x A48-AM or A48-65-AM - for larger mount poles



Y600 Series Yagi's

UHF 520-700MHz

Square Boom Yagi's

The Y600 series of directional Yagi's range from 3 to 15 element configurations depending on your gain requirements.

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

Specifications	Y603-SS	Y604-SS	Y606-SS	Y615-SS
Construction	Stainless steel (304 grade)			
Frequency and Bandwidth	UHF 520-700MHz			
Bandwidth	Specify 20MHz when ordering			
Tuning	Factory	Factory	Factory	Factory
Return Loss, VSWR	<1.5:1 across specified bandwidth			
Number of Elements	3	4	6	15
Gain (nominal)	6 dBd	7.5 dBd	9 dBd	14 dBd
Polarisation	Mount Horizontal or Vertical as required			
Maximum Power	150 Watts	150 Watts	150 Watts	150 Watts
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
H Plane (at 3 dB)	76°	62°	50°	38°
E Plane (at 3 dB)	57°	54°	46°	33°
Front-to-Back Ratio	15 dB	15 dB	16 dB	16dB
Connector (fitted)	N-type female fitted to 250mm RG59 cable tail			
Boom Length (at 380MHz)	700mm	1.0m	1.1m	1.9m
Longest Element (at 520MHz)	288mm	294mm	294mm	254mm
Weight in stainless steel	0.8Kg	1.0Kg	1.4Kg	3.1kG
Projected Area	0.028m ²	0.039m ²	0.058m ²	0.125m ²
Wind Load at 160kph	2Kg	3Kg	4Kg	16Kg
Mounting Accessories (order sepearte)	1 x S48 or 1 x S48-65 - for larger mount pole			



Y800 Series Yagi's

UHF 700-960MHz

Square Boom Yagi

The Y800 series of UHF Yagi's can be manufactured to cover any 60MHz you require within the mobile phone frequency range 700-960MHz.

Fixed Frequency models A and C are also available to cover either Telstra 3G or Telstra, Optus & Vodafone GSM.

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

Specifications	Y806	Y809	Y815
Construction	Aluminium, or add SS for stainless steel (304 grade)		
Frequency Range	UHF 700-960MHz		
Maximum Bandwidth	Any 60MHz (specify Transmit and Receive when ordering)		
Return Loss, VSWR	<1.5:1 across specified bandwidth		
Tuning	Factory	Factory	Factory
Number of Elements	6	9	15
Gain (nominal)	9 dBd	11.5 dBd	14 dBd
Polarisation	Mount Horizontal or Vertical as required		
Maximum Power	50 Watts	50 Watts	50 Watts
Impedance	50 Ohms	50 Ohms	50 Ohms
H Plane (at 3dB)	51°	42°	30°
E Plane (at 3dB)	46°	34°	28°
Front-to-Back Ratio	17.8 dB	15 dB	15 dB
Connector (fitted)	N-type female fitted to 250mm RG59 cable tail		
Boom Length (at 850MHz)	0.8 metres	0.97 metres	1.85 metres
Longest Element	210mm	210mm	210mm
Weight in aluminium	0.5Kg	0.7Kg	1Kg
Weight in stainless steel	1.2Kg	1.5Kg	2.6Kg
Projected Area	0.035m ²	0.054m ²	0.075m ²
Wind Load at 160kph	4.5Kg	6.5Kg	9.5Kg
Strut Kit (order separately)	Not required		YS1-48
Mounting Accessories	1 x A48 for alum., 1 x S48 for S/Steel (order separately)		



Y800 Series Yagi's

UHF 700-960MHz

Square Boom Yagi

The Y802 and Y803 series of base station yagi's can be manufactured to cover any 60MHz you require within the mobile phone frequency range 700-960MHz.

Mounting clamps, coaxial feeder cable, connectors and other installation accessories are all available seaparately.

Specifications	Y802	Y803
Construction	Aluminium, or add SS for stainless steel (304 grade)	
Frequency Range	UHF 700-960MHz	
Maximum Bandwidth	Any 60MHz (specify Transmit and Receive when ordering)	
Return Loss, VSWR	<1.5:1 across specified bandwidth	
Tuning	Factory	Factory
Number of Elements	2	3
Gain (nominal)	3 dBd	4.5 dBd
Polarisation	Mount Horizontal or Vertical as required	
Maximum Power	50 Watts	50 Watts
Impedance	50 Ohms	50 Ohms
H Plane (at 3dB)	81°	76°
E Plane (at 3dB)	64°	57°
Front-to-Back Ratio	dB	15 dB
Connector (fitted)	N-type female fitted to 250mm RG59 cable tail	
Boom Length @ 700MHz	0.46 metres	0.55 metres
Longest Element @ 700MHz	218mm (will decrease at higher frequency)	214mm (will decrease at higher frequency)
Weight in aluminium	0.30Kg	0.32Kg
Weight in stainless steel	0.75Kg	0.8Kg
Projected Area	0.015m ²	0.016m ²
Wind Load at 160kph	1.8Kg, 0.018kN	1.97Kg, 0.019kN
Mounting Accessories	1 x A48 for alum., 1 x S48 for S/Steel (order separately)	

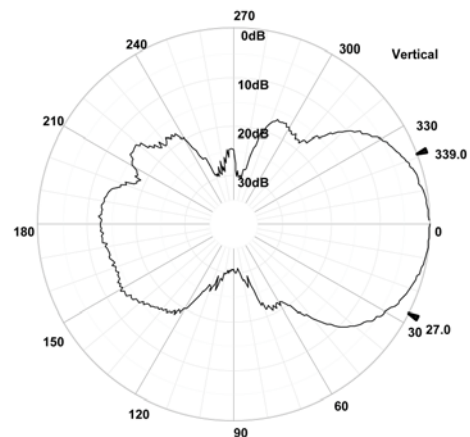
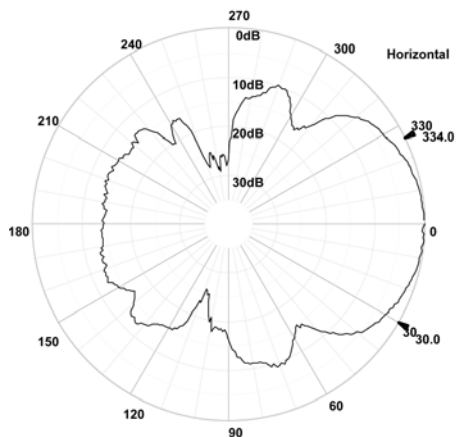


Y800 Series Yagi's

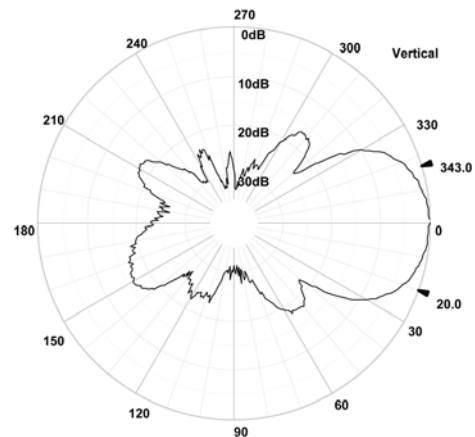
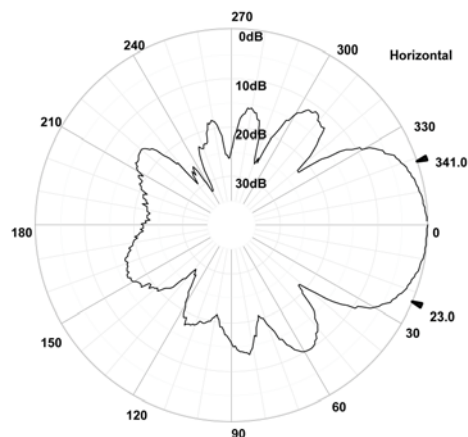
UHF 700-960MHz

Radiation Patterns

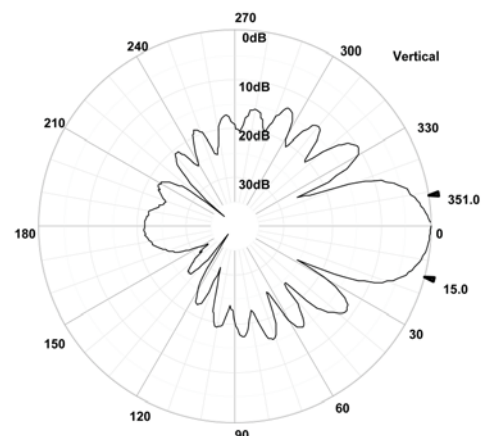
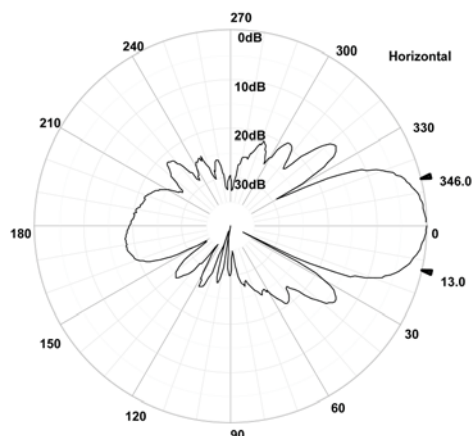
6 element Y806 at 880 MHz



9 element Y809 at 880 MHz



15 element Y815 at 960 MHz



Y800 Series Yagi's

UHF Mobile Phone

Square Boom Yagi A, B & C

The Y800 series of directional fixed position Yagi's are also manufactured in "fixed frequency" models A, B and C, each tuned for optimum performance across a separate segment of the UHF Mobile Phone range 820 to 960MHz.

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

Specifications	Y806	Y809	Y815
Fixed Frequency Models (select letter when ordering)	A = 825-890MHz (Telstra 3G) B = 870-930MHz C = 890-960MHz (GSM)		A = 825-890MHz (Telstra 3G) B = 852-930MHz C = 890-960MHz (GSM)
Construction	Aluminium, or add SS for stainless steel (304 grade)		
Tuning	Factory	Factory	Factory
Return Loss, 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		
Maximum Power	50 Watts	50 Watts	50 Watts
Impedance	50 Ohms	50 Ohms	50 Ohms
H Plane (at 3dB)	51°	42°	30°
E Plane (at 3dB)	46°	34°	28°
Front-to-Back Ratio	17.8 dB	15 dB	15 dB
Connector (fitted)	N-type female fitted to 250mm RG59 cable tail		
Boom Length (at 850MHz)	0.8 metres	0.97 metres	1.85 metres
Longest Element	210mm	210mm	210mm
Weight in aluminium	0.5Kg	0.7Kg	1Kg
Weight in stainless steel	1.2Kg	1.5Kg	2.6Kg
Projected Area	0.035m ²	0.054m ²	0.075m ²
Wind Load at 160kph	4.5Kg	6.5Kg	9.5Kg
Strut Kit (order separately)	Not required	Not required	YS1-48 or YS2-48
Mounting Accessories (order separate)	1 x A48 for Aluminium or 1 x S48 for Stainless Steel		



Y1215, Y1515 & Y1615

UHF 1200-1620MHz

Aluminium Yagi's

The Y1215, 15 element Yagi is specifically designed and manufactured for 1200MHz.

The Y1515, 15 element Yagi is specifically designed for the 1420-1520MHz frequency range.

The Y1615, 15 element Yagi is specifically designed and manufactured for the 1520-1620MHz frequency range.

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

Specifications	Y1215	Y1515	Y1615
Construction	Aluminium	Aluminium	Aluminium
Frequency Range	1200MHz	1420 - 1520MHz	1520 - 1620MHz
Return Loss, VSWR	<1.5:1 Full band		
Tuning	Factory	Factory	Factory
Gain	14 dBd	14 dBd	14 dBd
Polarisation	Mount Horizontal or Vertical as required		
Maximum Power	250 Watts	250 Watts	125 Watts
Impedance	50 Ohms	50 Ohms	75 Ohms
H Plane	28°	28°	28°
E Plane	32°	32°	32°
DC Grounding	Yes	Yes	Yes
Connector (fitted)	N-type female	N-type female	BNC female
Boom Dimensions	12.7mm x 1.35m	12.7mm x 1.4m	12.7mm x 1.5m
Longest Element	132mm	110mm	99mm
Weight	1.5Kg	1.35Kg	1.2Kg
Projected Area	0.038m ²	0.035m ²	0.033m ²
Wind Load at 160kph	4.63Kg, 0.04kN	4.01Kg, 0.04kN	3.98Kg, 0.039kN
Strut Kit (order separately)	ZCG recommend the use of a single or 2-way strut kit to ensure flexing or bending of your Yagi is kept to a minimum.		
Mounting Accessories (order separate)	1 x A12-7 or consult ZCG for advice		



Yagi Rear Reflector Screen

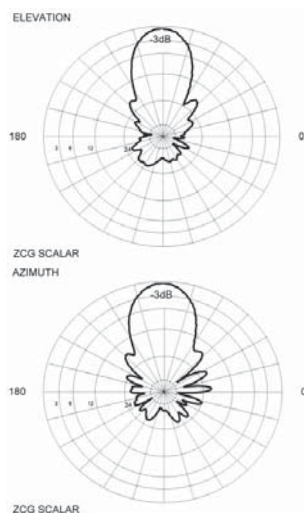
When a rear reflector screen is fitted to a Yagi, the radiation pattern emitted at the rear is restricted considerably and the front-to-back ratio is improved to better than 24dB to meet the (ACMA) Australian Communications and Media Authority standard.

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

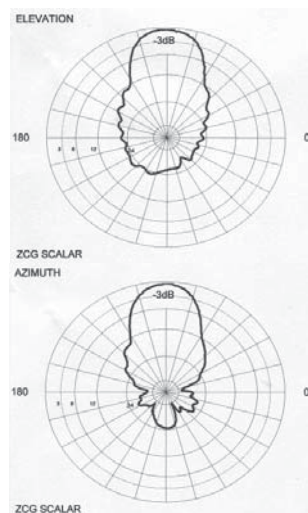
Specifications	YFRS-AL	YFRS-SS	YVRS-AL	YVRS-SS
Construction	Aluminium	Stainless Steel (304 grade)	Aluminium	Stainless Steel (304 grade)
Rear Screen Type	Flat screen		'V' shaped screen	
Suit Yagi Series	Y400, Y600TV, Y800 or Y800-20RL			
Screen Size	Size will vary, depending on frequency - Consult ZCG			
Front-to-Back Ratio	Improved to better than 24dB		Improved to better than 24dB, additional side lobe suppression	



Y415 fitted with YFRS-AL
Flat Rear Screen



Y615TVSS fitted with YVRS-SS
Vee-shaped Rear Screen



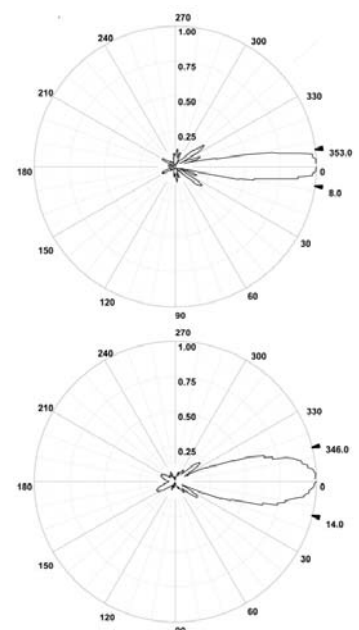
Y815B2-DMH

UHF 700-960MHz

2-Stack Broadband Yagi Array

Y815B2-DMH is a 2-stack Yagi array which produces a highly directional radiation pattern with high front-to-back ratio specifically designed for long distance point-to-point communication links.

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



Specifications	Y815B2-DMH
Construction	Aluminium
Frequency	UHF 700-960MHz
Bandwidth	60MHz (specify when ordering)
VSWR	<1.5:1 across specified bandwidth
Tuning	Factory
Number of Yagi's in Array	2 x 15 element Yagi's
Gain (nominal)	17 dBd
Polarisation	Horizontal or Vertical (specify when ordering)
Maximum Power	100 Watts
Impedance	50 Ohms
H Plane	14°
E Plane	28°
Front-to-Back	18 dB
Cable Tail	2-way RG59 phasing harness (supplied)
Connector	N-type female fitted to phasing harness
Boom Length	1.85 metres
Longest Element	210mm
Array Weight	6.1Kg
Projected Area	0.170m
Wind Load at 160kph	20Kg
Mounting Accessories	1 x YS10-48, 1 x UAM90L (supplied)

Y815B2-DMH Array

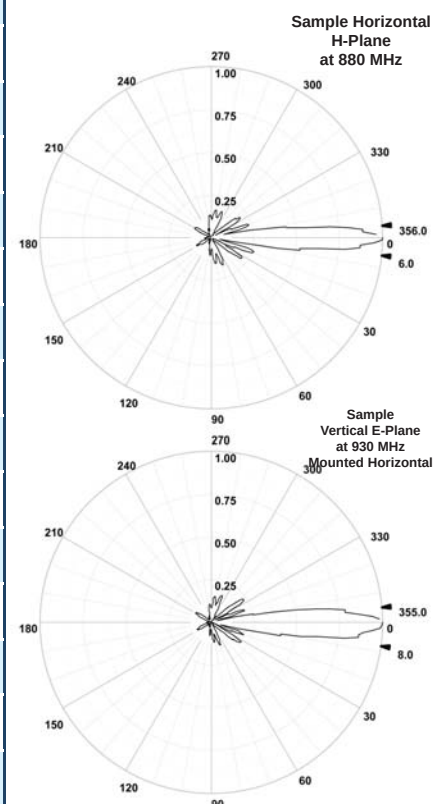
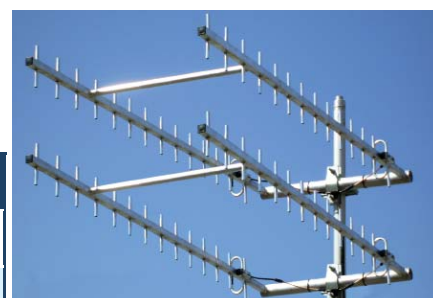
UHF 700-960MHz

4-Stack Broadband Yagi Array

Y815B2-DMH Array is a 4-stack Yagi array which produces a highly effective directional radiation pattern with a high front-to-back ratio specifically designed for long distance point-to-point communication links.

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

Specifications	Y815B2-DMH-ARRAY
Construction	Aluminium
Frequency	UHF 700-960MHz
Bandwidth	60MHz (specify when ordering)
VSWR	<1.5:1 across specified bandwidth
Tuning	Factory
Number of Yagi's in Array	4 x 15 element yagi's
Gain (nominal)	20 dBd
Polarisation	Horizontal or Vertical (specify when ordering)
Maximum Power	100 Watts
Impedance	50 Ohms
H Plane	8°
E Plane	10°
Front-to-Back	20 dB
Cable Tail	Phasing harness supplied
Connector	N-type female fitted to phasing harness
Boom Length	1.85 metres
Longest Element	210mm
Array Weight	12.5Kg
Projected Area	0.340m
Wind Load at 160kph	40Kg
Mounting Accessories	1 x YS10-48, 2 x UAM90L (supplied)



LPY108-88

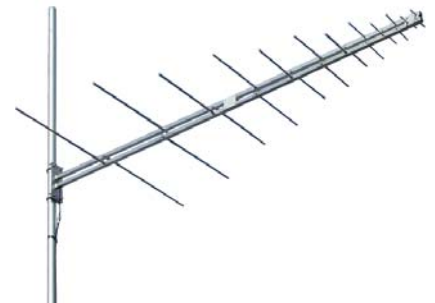
FM Radio 87.5-108.5MHz

Log Periodic Yagi

For applications requiring genuine broadband coverage across the entire FM Radio frequency range 87.5-108.5MHz, the LPY108-88 log periodic Yagi offers the ideal solution.

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

Specifications	LPY108-88
Construction	Aluminium boom and elements
Frequency Range	FM Radio 87.5-108.5MHz
Bandwidth	Full band
VSWR	<2:1 across full band
Tuning	Factory
Gain	7 dBi across full band
Maximum Power	200 Watts
Impedance (nominal)	50 Ohms
Polarisation	Mount Horizontal or Vertical as required
H Plane	98°
E Plane	59°
Front-to-Back Ratio	>15 dB
DC Grounding	Yes
Cable Tail	200mm RG58 stranded
Connector (fitted)	N-type female
Boom Length	1.32m
Longest Element	1.971m
Weight in Aluminium	2.6Kg
Projected Area	0.101m ²
Wind Load at 160kph	12.2Kg, 0.113kN
Mounting Accessories (supplied)	Welded mounting plate, 2 x V-blocks & 2 x 50mm diameter stainless steel U-bolts



LPY100-500

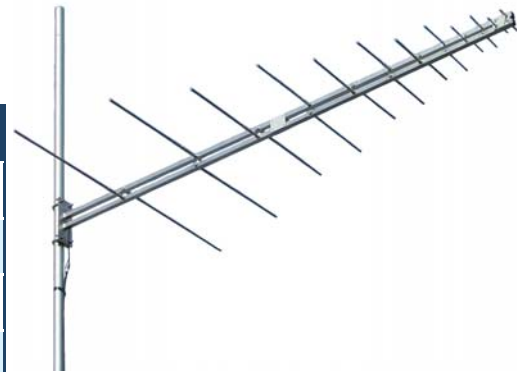
VHF & UHF

Log Periodic Yagi

For applications requiring genuine broadband coverage across the VHF & UHF frequency range 100-500MHz, the LPY100-500 log periodic Yagi offers the ideal solution.

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

Specifications	LPY100-500
Construction	Aluminium, or add SS for stainless steel (304 grade)
Frequency Range	VHF & UHF 100-500MHz
Bandwidth	Full band
VSWR	<2:1 across full band
Tuning	Factory
Gain	7 dBi across full band
Maximum Power	200 Watts
Impedance (nominal)	50 Ohms
Polarisation	Horizontal
H Plane	105° - 142° depending on frequency
E Plane	43° - 75° depending on frequency
Front-to-Back Ratio	7dB - 15dB depending on frequency
DC Grounding	Yes
Connector (fitted)	N-type female to 200mm RG58 stranded
Boom Length	1.8 metres
Longest Element	1.5 metres
Weight in Aluminium	2.7Kg
Weight in Stainless Steel	5.4Kg
Projected Area	0.104m ²
Wind Load at 160kph	12.5Kg, 0.123kN
Mounting Accessories (supplied)	Welded mounting plate, 2 x V-blocks & 2 x 50mm diameter stainless steel U-bolts



LPY600

UHF 500-800MHz

Log Periodic Yagi

The LPY600 log periodic yagi provides exceptionally broad bandwidth coverage across the full UHF 500-800MHz frequency.

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

Specifications	LPY600
Construction	Stainless Steel (304 grade)
Frequency Range	UHF 500-800MHz
Bandwidth	Full band
VSWR	<2:1 across full band
Tuning	Factory
Gain	6 dBi
Maximum Power	250 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	24 dB
DC Grounding	Yes
Connector (fitted)	BNC female fitted to 200mm RG58 stranded
Boom Length	470mm
Longest Element	320mm
Weight	670grams
Projected Area	0.02m ²
Wind Load at 160kph	2.47Kg, 0.024kN
Mounting Accessories (supplied)	Welded angle plate clamp and 50mm diameter stainless steel U-bolt



LPY698-2700

Telstra, Optus & Vodafone 4G LTE, 4G, 3G & GSM

Radome Enclosed Log Periodic Yagi

The LPY698-2700 radome enclosed log periodic yagi provides exceptionally broad bandwidth coverage across the Telstra, Optus & Vodafone 4G LTE, 4G, 3G (Next G™) & GSM mobile phone networks 698-960 & 1710-2700MHz.

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

Specifications	LPY698-2700
Construction	White PVC radome and aluminium mounting hardware
Frequency Range	Telstra, Optus & Vodafone 4G LTE, 4G, 3G & GSM 698-960MHz & 1710-2700MHz
Bandwidth	Full band
VSWR	<1.5:1 across full band
Tuning	Factory
Gain	11 dBi
Maximum Power	50 Watts
Impedance (nominal)	50 Ohms
Polarisation	Mount Horizontal, Vertical or Slant as required
H Plane	65° (depending on frequency)
E Plane	50° (depending on frequency)
DC Grounding	Yes
Connector (fitted)	N-type female fitted to 200mm white RG58 stranded
Dimensions	L = 400mm W = 60mm H = 260mm
Weight	1Kg (including clamp)
Mounting Accessories (supplied)	Adjustable angle plate clamp and 2 x 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.



LPY2250 and LPY2250-25

UHF 650-2250MHz

Broadband Log Periodic Yagi

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

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

Specifications	LPY2250	LPY2250-25
Construction	Stainless Steel (304 grade)	
Frequency Range	UHF 850-2250MHz	UHF 650-2250MHz
VSWR	<2:1 across full band	
Tuning	Factory	Factory
Gain	8 dBi	10.2 dBi
Maximum Power	250 Watts	250 Watts
Impedance (nominal)	50 Ohms	50 Ohms
Polarisation	Mount Horizontal or Vertical as required	
H Plane	98°	63°
E Plane	59°	48°
Front-to-Back Ratio	24 dB	24 dB
DC Grounding	Yes	Yes
Cable Tail	200mm RG58 low loss	
Connector (fitted)	N-type female (or specify)	
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 Accessories (supplied)	Welded angle mounting plate and 50mm diameter stainless steel U-bolt	



LPY2250 - 850-2250MHz



LPY2250-25 - 650-2250MHz

Y1809

4G Mobile Phone 1710-1880MHz

Radome Enclosed Yagi

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

This Yagi is particularly useful for improving reception of the 4G mobile phone network.

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

Specifications	Y1809
Construction	White or black radome, aluminium mount plate
Frequency Range	4G 1710-1880MHz
Bandwidth	Full band
Return Loss, VSWR	<1.5:1 across full band
Tuning	Factory
Number of Elements	9
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 (fitted)	N-type female fitted to 200mm RG58 low loss
Length	300mm
Width	80mm
Weight	1.5Kg
Projected Area	0.015m ²
Wind Load at 160kph	1.82Kg
Mounting Accessories (supplied)	Aluminium mount plate, 2 x galvanised steel V-blocks, 2 x 50mm diameter galvanised steel U-bolts



Y2009

3G Mobile Phone 1900-2170MHz

Radome Enclosed Yagi

The Y2009 radome enclosed Yagi can be used for directional transmit and receive applications across the 3G frequency range 1900-2170MHz.

This Yagi is particularly useful for improving reception of the 3G mobile phone network.

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

Specifications	Y2009
Construction	White fibreglass radome, aluminium mounting plate
Frequency Range	3G 1900-2170MHz
Bandwidth	Full band
Return Loss, VSWR	<1.5:1 across full band
Tuning	Factory
Number of Elements	9
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 (fitted)	N-type female fitted to 200mm RG58 low loss
Length	300mm
Width	80mm
Weight	1.5Kg
Projected Area	0.015m ²
Wind Load at 160kph	1.82Kg
Mounting Accessories (supplied)	Aluminium mount plate, 2 x galvanised steel V-blocks , 2 x 50mm diameter galvanised steel U-bolts



Y1809-MIMO-2

4G MIMO 1710-1880MHz

Radome Enclosed Yagi

The Y1809-MIMO-2 mast mount enclosed Yagi is specifically designed and manufactured for directional transmit and receive within the 4G MIMO frequency range 1710-1880MHz.

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

Specifications	Y1809-MIMO-2
Construction	2 x white or black radome, aluminium mount plate
Frequency Range	4G 1710 - 1880MHz
Bandwidth	Full band
VSWR	<1.5:1 across full band
Tuning	Factory
Number of Elements	9
Gain	11.3 dBi (per plane)
Maximum Power	25 Watts
Impedance	50 Ohms
Polarisation	Slant (+45° and -45°)
H Plane	36° (per plane, will change)
E Plane	43° (per plane, will change)
Front-to-Back Ratio	20dB
DC Grounding	Yes
Connector (fitted)	2 x N-type female fitted to 2 x 200mm RG142 teflon cable
Length	345mm
Width	87mm
Weight	2.9Kg
Projected Area	0.03m ²
Wind Load at 160kph	3.1Kg
Mounting Accessories (supplied)	Aluminium mount plate, 2 x galvanised steel V-blocks, 2 x 50mm diameter galvanised steel U-bolts



Y2009-MIMO-2

3G MIMO 1900-2170MHz

Radome Enclosed Yagi

The Y2009-MIMO-2 mast mount enclosed Yagi is specifically designed and manufactured for directional transmit and receive within the 3G MIMO frequency range 1900-2190MHz.

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

Specifications	Y2009-MIMO-2
Construction	2 x white or black radome, aluminium mount plate
Frequency Range	3G 1900-2170MHz
Bandwidth	Full band
VSWR	<1.5:1 across full band
Tuning	Factory
Number of Elements	9
Gain	11.3 dBi (per plane)
Maximum Power	25 Watts
Impedance	50 Ohms
Polarisation	Slant (+45° and -45°)
H Plane	36° (per plane, will change)
E Plane	43° (per plane, will change)
Front-to-Back Ratio	20dB
DC Grounding	Yes
Connector (fitted)	2 x N-type female fitted to 2 x 200mm RG142 teflon cable
Length	290mm
Width	87mm
Weight	3.0Kg
Projected Area	0.03m ²
Wind Load at 160kph	3.1Kg
Mounting Accessories (supplied)	Aluminium mount plate, 2 x galvanised steel V-blocks, 2 x 50mm diameter galvanised steel U-bolts



ZD8Z-XP-MIMO

Slant Polarised Mobile Phone Panel

4G LTE, 4G, 3G and GSM

The ZD8Z-XP-MIMO is a slant polarised panel covering the entire Telstra, Optus & Vodafone 4G LTE, 4G, 3G and GSM mobile phone networks.

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.

Specifications	ZD8Z-XP-MIMO
Construction	UV protected ABS radome, aluminium back screen
Frequency Range	Telstra, Optus & Vodafone 4G LTE, 4G, 3G and GSM 698-960MHz & 1710-2700MHz
Bandwidth	Full band
VSWR	<2.0:1 VSWR
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 (7/16" DIN Female model available)
PIM	(2 x 43dBm Carrier) <-140dBc
Panel Dimensions	310mm x 310mm x 150mm
Weight	3.0Kg
Working temperature range	-40°C to + 70°C
Rated Wind Velocity	200km/h
Mounting accessories	Mounting bracket up to diameter 80mm capability



ZD8Z-XP-716 -MIMO

Slant Polarised Mobile Phone Panel

4G LTE, 4G, 3G and GSM

The ZD8Z-XP-716-MIMO is a slant polarised panel covering the entire Telstra, Optus & Vodafone 4G LTE, 4G, 3G and GSM mobile phone networks.

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.

Specifications	ZD8Z-XP-716-MIMO
Construction	UV protected ABS radome, aluminium back screen
Frequency Range	Telstra, Optus & Vodafone 4G LTE, 4G, 3G and GSM 698-960MHz & 1710-2700MHz
Bandwidth	Full band
VSWR	<2.0:1 VSWR
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)
PIM	(2 x 43dBm Carrier) <-140dBc
Panel Dimensions	310mm x 310mm x 150mm
Weight	3.0Kg
Working temperature range	-40°C to + 70°C
Rated Wind Velocity	200km/h
Mounting accessories	Mounting bracket up to diameter 80mm capability



Fixed Position Airband Summary

Airband Collinears

- G12 85-140 MHz, 3 dBd, 4.8 metres
- G46-SP4.5 118-136 MHz, 4.5dBd, 5.5 metres

Airband Coaxial Dipoles

- B14 & B18 118-136 MHz, 0 dBd, 3 metres

Airband Dipoles

- B42 & B42SS 118-136 MHz, 0 dBd, 1.035 metres
- S2B42 Series 118-136 MHz, 4.5 dBd or 7.5dBd, 3.3 or 5.6 metres

Airband Discones

- B51H & B51HSS 70-1000 MHz, 0 dBd, 1.2 metres

Airband Monocones

- B55AL 118-136 MHz, 0 dBd, 1.5 metres
- B55SS 118-136 MHz, 0dBd, 1.55 metres
- M55SS-MIL Naval Military Spec 118-136 MHz, 0dBd, 1.5 metres

Antenna Installation Accessories

How to Order

Terms and Conditions of Sale

Contact Us

G12

VHF and Air Band 85-140MHz

Mast Mount Collinear

Where some gain is desired for omnidirectional Air Band communications, then consider the G12 collinear.

If a power rating higher than 250 watts is required, please contact ZCG Scalar for advice.

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

Specifications	G12
Construction	White fibreglass radome, aluminium mount tube
Frequency Range	85-140MHz (Air Band range 118-136MHz)
Maximum Bandwidth	Any 5% (specify Transmit and Recieve when ordering)
Return Loss, VSWR	<1.5:1 across specified bandwidth
Tuning	Factory
Gain	3 dBd
Maximum Power	250 Watts
Impedance (nominal)	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional, $\pm 0.5\text{dB}$
E Plane	32°
Connector	N-type female in base of mount section
Height (at 85MHz)	4.8 metres (higher frequencies, radome will be reduced)
Weight	9Kg
Projected Area	0.14m ²
Wind Load at 160kph	17Kg, 0.170kN
Mount Tube	600mm x 48mm
Mounting Accessories (order separte)	2 x UAM180L (parallel) or 2 x UAM90L (right-angle)



G46-SP4.5

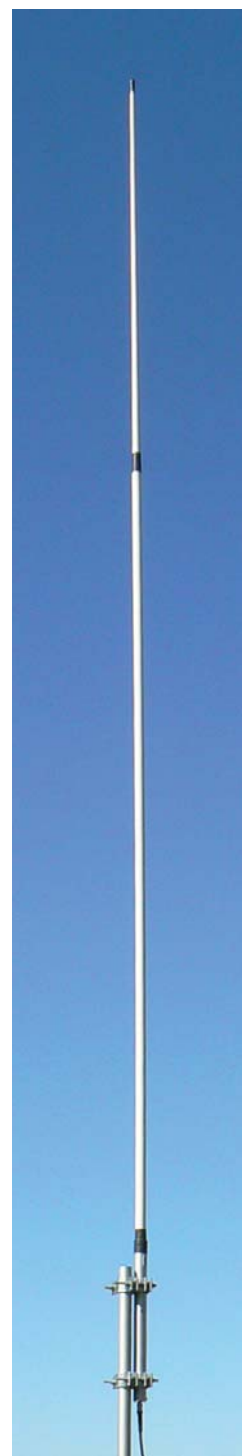
Airband 118-136MHz

Mast Mount Collinear

The G46-SP4.5 is a specially adapted collinear for communications within the Airband spectrum 118-136MHz.

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

Specifications	G46-SP4.5
Construction	White fibreglass radome and aluminium mount tube
Frequency Range	Airband 118-136MHz
Bandwidth	Any 3% (specify when ordering)
Return Loss, VSWR	<1.5:1 across specified bandwidth
Tuning	Factory
Gain	4.5 dBd
Impedance (nominal)	50 Ohms
Maximum Power	250 Watts
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
E Plane	25°
Connector	N-type female in base of mount tube (no cable)
Height at lowest frequency	5.5 metres
Weight	13Kg
Projected Area	0.16m
Wind Load at 160kph	19Kg, 0.19Kn
Mount Tube	48mm x 600mm
Mounting Accessories (order separate)	2 x UAM180L (parallel) or 2 x UAM90L (right-angle)
Mounting Position (recommended)	Mount as high on your structure, mast or tower as possible using the appropriate mounting clamps



B14 and B18

Air Band 118-136MHz

Coaxial Dipoles

The B14 and B18 omnidirectional coaxial dipoles are effective and economical Air Band antenna solution.

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

Specifications	B14	B18
Construction	White fibreglass radome, aluminium mount tube	White fibreglass radome, stainless steel mount tube
Frequency Range	Air Band 118-136MHz	
Maximum Bandwidth	Any 3% (specify Transmit and Recieve when ordering)	
Return Loss, VSWR	<1.5:1 across specified bandwidth	
Tuning	Factory	Factory
Gain	0 dBd	0 dBd
Maximum Power	100 Watts	100 Watts
Impedance (nominal)	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Polarisation	Vertical	Vertical
H Plane	360° omnidirectional, $\pm 0.5\text{dB}$	
E Plane	46°	46°
Connector	N-type female in base of mount section	
Height (at 118MHz)	3 metres (higher frequencies, radome reduces slightly)	
Weight	1.0Kg	1.9Kg
Projected Area	0.05m ²	0.05m ²
Wind Load at 160kph	6.0Kg, 0.08kN	
Mount Tube	500mm x 30mm	
Mounting Situation	At 118MHz, 2 metre distance from vertical structure	
Mouting Accessories (order separte)	2 x EB1-SS or 1 x UB3-SS	



B42 and B42SS

Air Band 118-136MHz

Sidemount Dipole

The B42 sidemount dipoles are for Air Band communications across the entire 118 to 136MHz. The exceptionally broad bandwidth and reliable construction make a sidemount dipole perfect for use as a fixed position antenna.

Traditionally folded dipoles are mounted so as to use the mast as a reflector. Pattern formation and gain can be varied by altering dipole to mast spacing, or by mounting in stack array formations.

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



Specifications	B42	B42SS
Construction	Aluminium	Stainless Steel
Frequency Range	Air Band 118-136MHz	
Bandwidth	Full band	Full band
VSWR	<1.5:1 VSWR full band	
Tuning	Factory	Factory
Gain	0 dBd for a single bay, stacking increases gain	
Maximum Power	250 Watts	250 Watts
Impedance (nominal)	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Polarisation	Vertical	Vertical
Cable Tail	1 metre RG213	
Connector (fitted)	N-type female	N-type female
Dipole Height	1.035 metres	
Weight	2.5Kg	3.8Kg
Projected Area	0.054m ²	0.054m ²
Wind Load at 160kph	6.5Kg	6.5Kg
Mount Tube	1.0m x 40mm	
Mounting Accessories (order separete)	1 x Y2300	1 x Y2300-SS



Air Band Dipole Stack Arrays

Air Band 118-136MHz

These 2 stack and 4 stack dipole arrays cover the full Air Band frequency range 118-136MHz.

There are various methods of mounting these dipole stack arrays to a mast or tower. Please consult ZCG for advice about the best solution for your mounting arrangement.

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

Specifications	S2B42-1C	S4B42-1C
Construction	Aluminium or add SS for stainless steel	
Dipoles in Array	2	4
Frequency	Air Band 118-136MHz	
Bandwidth	Full band	
Return Loss, VSWR	<1.5:1 across full band	
Tuning	Factory	Factory
Gain	4.5 dBd	7.5 dBd
Maximum Power	250 Watts	250 Watts
Impedance (nominal)	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Polarisation	Vertical	Vertical
H Plane	240°	240°
E Plane	33°	16°
Connector	N-type female in base of mount section	
Mount Tube	3.0m x 50mm	7.0m x 50mm
Weight	18Kg in aluminium 30Kg in stainless steel	30Kg in aluminium 50Kg in stainless steel
Projected Area	0.27m ²	0.41m ²
Wind Loading at 160kph	24Kg	48Kg
Mounting Accessories (order separate)	2 x UAM180L (top and bottom) or consult ZCG	3 x UAM180L (top, middle and bottom) or consult ZCG.



UHF Dipole Stack Arrays

UHF 400-520MHz

2-Stack or 4-Stack

These UHF dipole stack arrays come in both 2 stack and 4 stack formations depending on your gain requirements.

If a power rating higher than 250 Watts is required, please contact ZCG for advice.

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

Specifications	S2B44-1C	S4B44-1C
Construction	Aluminium, or add SS for stainless steel	
Dipoles in Array	2	4
Frequency	UHF 400-520MHz	
Bandwidth	Full band	Full band
Return Loss, VSWR	<1.5:1 across full band	
Tuning	Factory	Factory
Gain	4.5 dBd	7 dBd
Maximum Power	250 Watts	250 Watts
Impedance (nominal)	50 Ohms	50 Ohms
DC Grounding	Yes	Yes
Polarisation	Vertical	Vertical
H Plane	240°	240°
E Plane	33°	16°
Connector	N-type female in base of mount section	
Mount Tube	1.5m x 50mm	2.5m x 50mm
Weight	6Kg in aluminium 9Kg in stainless steel	10Kg in aluminium 15Kg in stainless steel
Projected Area	0.150m ²	0.248m ²
Wind Load at 160kph	18.6Kg, 0.183kN	30Kg, 0.294kN
Mounting Accessories (order separate)	2 x UAM180L or consult ZCG for advice	



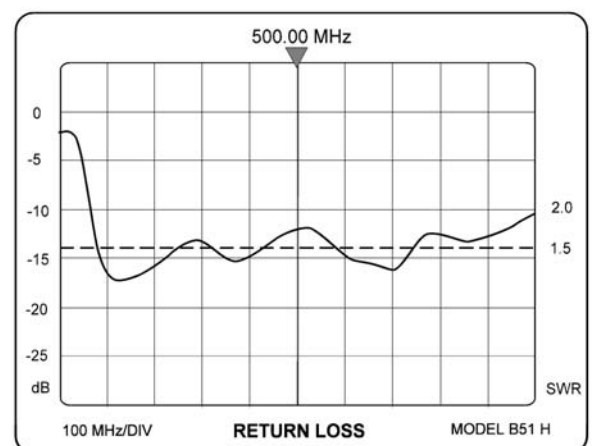
B51H and B51HSS

VHF & UHF Omnidirectional Broadband Discone

The B51H and B51HSS fixed position discons provide an omnidirectional radiation pattern, low VSWR and genuine broadband coverage for both transmit and receive across the full VHF & UHF frequency band 70-1000MHz.

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

Specifications	B51H	B51HSS
Construction	Aluminium	Stainless Steel
Frequency Range	VHF & UHF 70-1000MHz	
Bandwidth	Full band	
VSWR	<2:1 across entire range	
Tuning	Factory	
Gain	0 dBd	
Max Input Power	100 Watts	
Impedance	50 Ohms	
DC Grounding	No	
Polarisation	Vertical	
H Plane	360° omnidirectional, ± 0.5 dBd	
E Plane	83° at 100MHz	
Connector	N-type female in base of mount section	
Height	1.2 metres	
Weight	6.0Kg	9.5Kg
Projected Area	0.167m ²	
Wind Load at 160kph	31.449Kg, 0.308kN	
Mount Tube	40mm diameter	
Mounting Accessories (order separate)	2 x EB1-SS or 1 x UB3-SS	



B55AL

Air Band 118-136MHz

Aluminium Monocone

The B55AL monocone is an economical and effective antenna for airport communications. Using the lower section of the Air Band for transmit, the sliding radials can be easily field tuned to receive within the frequency range 118 to 136MHz.

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

Specifications	B55AL
Construction	Grey radome, aluminium radials and mount tube
Frequency	Air Band 118-136MHz
Bandwidth	Any 8MHz (specify frequency range when ordering)
Return Loss, VSWR	<1.5:1 across bandwidth
Tuning	Factory (radials can be field tuned if required)
Gain	0 dBd
Maximum Power	200 Watts
Impedance (nominal)	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
E plane	74° (vertical beamwidth)
Cable Tail	1 metre RG213
Connector (fitted)	N-type female
Height	1.5 metres
Radial Width	1.3 metres overall (650mm each side)
Weight	3.1Kg
Projected Area	0.143m ²
Wind Load at 160kph	12.7Kg
Mount Tube	38mm
Mounting Accessories (order separate)	2 x EB1-SS or 1 x UB3-SS



B55SS

Air Band 118-136MHz

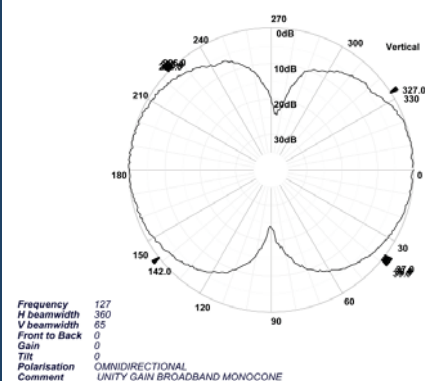
Stainless Steel Monocone

Suitable for mounting to lightweight towers, the B55SS monocone covers the entire Air Band 118-136MHz, making this the ideal base station antenna for Airports where a variety of channels are used.

With an omnidirectional radiation pattern and integral ground plane, this monocone produces a low angle of radiation making it comparable with centre-fed dipoles

Mounting clamps, coaxial feeder cables, connectors and other installation accessories are all available separately.

Specifications	B55SS
Construction	Grey radome, stainless steel radials and mount tube
Frequency	Air Band 118-136MHz
Bandwidth	Full band
Return Loss, VSWR	<1.5:1 across full band
Tuning	Factory
Gain	0 dBd
Maximum Power	500 Watts
Impedance (nominal)	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° omnidirectional, ± 0.5 dBd
E Plane	65° (vertical beamwidth)
Cable Tail	1 metre RG213
Connector (fitted)	N-type female
Height	1.55 metres
Weight	4.6Kg
Projected Area	0.143m ²
Wind Load at 160kph	12.7Kg
Mount Tube	38mm
Mounting Accessories (order separate)	2 x EB1-SS or 1 x UB3-SS (order separate)



Other Model Available

B55SS-716

Connector	7/16" DIN
Power Rating	2000 Watts

NEW

M55SS-MIL

Air Band 118-136
MIL-SPEC Monocone

Designed and manufactured for naval military conditions and terrain the M55SS-MIL is suited for mounting to either a naval vessey or structure.

With an omnidirectional radiation pattern and integral ground plane, this monocone produces a low angle of radiation making it comparable with centre-fed dipoles

Mounting clamps, coaxial feeder cables, connectors and other installation accessories are all available separately.

Specifications	M55SS-MIL
Construction	Grey radome, stainless steel radials and mount tube
Frequency	Air Band 118-136 MHz
Bandwidth	Full band
Return Loss, VSWR	<1.5:1 VSWR across full band
Tuning	Factory
Gain	0 dBd
Maximum Power	500 Watts
Impedance (nominal)	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
H Plane	360° Omnidirectional, ± 0.5 dBd
E Plane	65° (vertical beamwidth)
Connector (fitted)	N-type female weather sealed at base of mount section
Height	1.7 metres
Weight	4.6Kg
Projected Area	0.076m ²
Wind Load at 160kph	0.09kN, 9.199Kg
Mount Tube	38mm
Mounting Accessories (order seperate)	2 x EB1-SS or 1 x UB3-SS or consult ZCG for advice
Mounting Position (recommended)	Mount as high on your vessel, structure mast or tower as possible using the appropriate mounting clamps



ZRPM

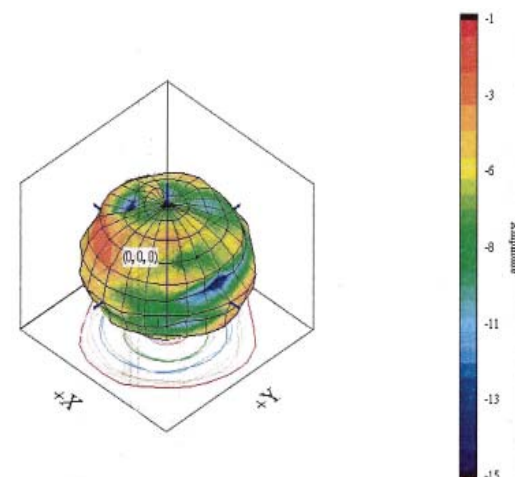
915 MHz and 2.4 GHz Embedded Data Antenna

The ZRPM is a raised pavement marker Data Antenna. Used 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.

Specifications	ZRPM
Construction	High impact PVC , FR4 PCB,
Frequency Range	915 MHz and 2.4 GHz
Tuning	Factory
Gain	3 dBd
Maximum Power	10 Watts
Impedance	50 OHMs nominal
DC Grounding	Yes
Polarisation	Vertical
Connector	SMA or other
Height	18mm
Weight	0.250g
Mounting Accessories (order seperate)	Adhesive
Colour Options Below	



MGP-6400N

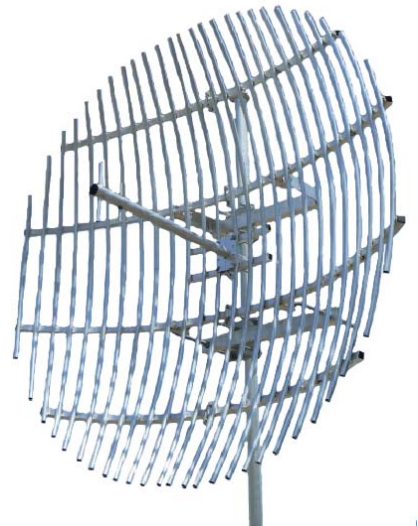
Grid-Pack Point-to-Point UHF Link Antenna

The MGP-6400N UHF grid pack antenna provides broad bandwidth within the frequency range 400 to 500MHz band.

The highly directional radiation pattern with minimal side lobes makes this grid-pack a perfect choice for use as a point-to-point link antenna.

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

Specifications	MGP-6400N
Construction	Aluminium
Frequency Range	UHF 400-500MHz
Bandwidth	Any 30 MHz within band
Return Loss, VSWR	Better than -15db, <1.5:1 across full band
Tuning	Factory
Gain	16.0 dBi (mid band)
Maximum Power	200 Watts
Impedance	50 Ohms
DC Grounding	Yes
Polarisation	Mount Horizontal or Vertical as required
H Plane	24°
E Plane	28°
Front-to-Back Ratio	20dB
Cross Polarisation Discrimination	>26 dB
Connector	N-female located in launcher (no cable)
Dish Dimensions	1.8 metres x 1.85 metres (assembled)
Weight	19.1Kg
Projected Area	0.954m ²
Wind Load at 160kph	115.3Kg, 1.13kN
Mounting Accessories	U-bolts (75-115mm) (supplied)
Warranty	1 Year



Accessories

Stainless Steel & Black Nylon Cable Ties

Cable ties both 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 Order Code	Specifications
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



8125

Stainless steel cable tie tensioner required to tighten stainless steel cable ties.

Fits cable ties quick, easy and neat.

Black Nylon Order Code	Specifications
8528-1	Bag of 100, 100mm long
8529	Bag of 100, 200mm long
8530	Bag of 100, 300mm long



Accessories

Water-proofing

Water-proofing is an essential step in any antenna installation whether it's a mobile, marine, base station or broadcast, correct water-proofing can lengthen the life of your antenna system.

Consult ZCG for advice on correct water-proofing for your requirements.

Order Codes	Specifications
8651	PVC electrical insulating tape, black, 19mm wide x 0.18mm thick, 20 metre roll
8574	Self-bonding amalgamating electrical tape, 19mm wide x 0.76mm thick, 9.15m roll
Alternative colours of 8651 are available, consult ZCG with your requirements.	

8651



8574



Cable Gland Order Code	Specifications
8485	Black PVC, 5-10mm capability
8485-2	Black PVC, 11-17mm capability
8485-3	Cream PVC, 5-10mm capability
8485-4	Cream PVC, 18-24mm capability
8485-5	Black PVC, suitable for 7/8" cable

8485



Cable Grommet Order Code	Specifications
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.

Fax orders to:

ZCG Scalar Head Office, Lindenow, Victoria on **(03) 5157 1641** or
ZCG Scalar Branch Office, Brown Plains, QLD on **(07) 3800 3651** or
ZCG Scalar Branch Office, Canning Vale, WA on **(08) 6253 8645**

Email orders to: sales@zcg.com.au or qldsales@zcg.com.au or wasales@zcg.com.au
Or you may send an email message to any of our RF consultants.

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, EFT bank deposit, Cash or Cheque.

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 your 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 us 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 **About Us... 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

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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

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- b) Pursuant to the provisions of Section 115 of the **Telecommunications Act 1989** (Commonwealth) (the said Act), ZCG Scalar does not warrant to the Buyer that the goods and/or services sold comply with Section 114(1) of the said Act or any amendments that are made to the said Act with regard to the equipment being used in connection with a telecommunications network, nor does ZCG Scalar warrant that there is any permit in force for connection of the equipment to a telecommunications network. Any such connections by the Buyer are done without the knowledge or consent of ZCG Scalar and expressly without any warranty by ZCG Scalar and if done, is done solely by the Buyer, at the Buyer's responsibility and risk with the onus upon the Buyer to obtain all necessary permits and meet the requirements of the Said Act.

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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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.

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All accounts are payable net cash within thirty (30) days from date of Invoice.

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- 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.

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- 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".

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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.



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