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November 2019

Vehicle Mount

Antennas for commercial, emergency services, military and
consumer vehicles

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Contact us

Vehicle Mount VHF, UHF, AM/FM & GPS Contents Page

VHF low band 70-100MHz

- BFB1 Ground independent whip collinear 70-85MHz, 2.1 dBi, 1.83m
- GRLT Ground independent whip and base 70-77MHz, 2.1 dBi
- M11T & M12T Stainless steel or fibreglass whip, 70-100MHz, 2.1 dBi

VHF high band 144-300MHz

- GRHFC-LB ***NEW*** Ground independent half-wave whip, lower band 136-148MHz, 2.1dBi, fixed cable
- GRH series Ground independent half-wave whip, 148-174MHz, 2.1 dBi
- GRHT-200 Ground independent half-wave whip top, 174-220MHz, 2.1dBi
- M21T & M22T Stainless steel or fibreglass whip, 144-174MHz, 2.1 dBi
- M21T-WB Stainless steel whip and base, 148-175MHz, 2.1 dBi, 4.7 metre cable assembly
- ZW312V Fibreglass whip, 156-162MHz, 5/16"-26TPI female thread, 2.1dBi
- VHF-H162 Helical whip, 144-174MHz, 2.1 dBi
- CT70 & CT160 Low profile, 68-88MHz or 144-174MHz, 2.1 dBi
- CT160-RD/CT160-RD-GPS HIPS enclosed low profile, 144-174MHz, specify 3MHz and GPS 1575.42MHz

On-glass mount

- OZ Series On-glass, 144-174MHz or UHF 390-520MHz, 2.1 dBi or 5.1 dBi

UHF 400-800MHz

- GRN series Ground independent whip, 330-670MHz, specify frequency/ model, 4dBi - UHF male
- GRN-NM series Ground independent whip, 330-670MHz, specify frequency/ model, 4dBi - N-type male
- GRNQF-340 & GRNQF-380 Ground independent magnetic base whip, 310-340MHz, 4dBi, 450mm
- GID-MB4052-S ***NEW*** UHF ground independent elevated feed whip, 400-520MHz, 2.1dBi - 440mm
- GID-M and GID-MB Series Elevated feed, 400-520MHz, specify frequency/ model, 6.2 dBi - black steel or fibreglass
- GID-MS series Elevated feed, 400-520MHz, specify frequency/ model, 6.2 dBi - electro-polished whip
- GID-MB-SHD series Spring base heavy-duty elevated feed, 400-520MHz, specify frequency/ model, 6.2 dBi
- GID "Quick Fit" 'Quick-fit' elevated feed, 400-520MHz specify frequency/ model, 6.6 dBi
- GRUFC Ground independent whip, 420-520MHz, 2.1 dBi, fixed cable model
- M400-OB series Stainless steel whip and OB base, specify cable length and connector, 6.2dBi
- M & MB series whips Stainless steel or fibreglass whip, 400-520MHz, specify frequency/ model, 6.2 dBi
- MB-HD series whips Heavy-duty fibreglass whip, 400-520MHz, specify frequency/ model, 6.2 dBi
- M45T Flexible whip, 400-520MHz, 2.1 dBi
- M35T & M41T Stainless steel or fibreglass whip, 300-400MHz or 400-520MHz, 2.1dBi
- MAG-B350 Stainless steel whip, magnetic base and cable assembly, 350MHz, 2.1dBi
- MAG-B470 Stainless steel whip, magnetic base and cable assembly, 470MHz, 2.1dBi
- CT400 Aluminium low profile, 400-530MHz, specify frequency/ model, 2.1 dBi
- CT500 Aluminium low profile, 500-600MHz, specify frequency/ model, 2.1 dBi
- CT400-RD/CT400-RD-GPS HIPS enclosed low profile, 400-530MHz, specify 25MHz & GPS 1575.42MHz
- CT500-RD/CT500-RD-GPS HIPS enclosed low profile, 500-600MHz, specify 20MHz & GPS 1575.42MHz
- CT600 Aluminium low profile, 600-700MHz, specify 20MHz, 2.1dBi
- CT700 Aluminium low profile, 757-787MHz or specify requirements, 2.1dBi
- CT600-RD/CT600-RD-GPS HIPS enclosed low profile, 600-700MHz, specify 20MHz & GPS 1575.42MHz
- CT700-RD/CT700-RD-GPS HIPS enclosed low profile, 757-787MHz or specify requirements & GPS 1575.42MHz
- ZWGPS Animal tracking whip, UHF 433MHz, 2.1dBi, 360mm

Multiband scanning whip

- SM39 & SM39-DAB Scanning whip, 40-950MHz or AM/FM, D.A.B. and Digital TV, Receive only

Vehicle Mount VHF, UHF, AM/FM & GPS Contents Page

AM/FM radio receive

- ZN3-AMFM-10	Detachable, AM & FM radio, receive only, barrel spring base, 1.1m
- ZN3-AMFM-11	Detachable, AM & FM radio, receive only, barrel spring base, 1.2m
- ZN3-AMFM-12	Detachable, AM & FM radio, receive only, barrel spring base, 2.1m
- ZN3-AMFM-1962	Detachable whip, AM & FM radio, receive only, barrel spring base
- SGL1100	Fibreglass collinear, AM/FM radio, receive only, parallel spring base
- SGL1100-BLKR	Fibreglass collinear, AM/FM radio, receive only, parallel spring base - ALL BLACK
- SG1100	Fibreglass collinear, AM/FM radio, receive only, barrel spring base
- SG1100-BLKR	Fibreglass collinear, AM/FM radio, receive only, barrel spring base - ALL BLACK
- AM-FMRX-RDW *NEW*	Helical flexible whip base, AM/FM radio, receive only, 360mm
- ZW312B-BLK *NEW*	Fibreglass whip only, AM/FM radio, receive only, 640mm, 5/16"-26TPI female thread
- AMFM INTER *NEW*	Fibreglass whip only, AM/FM radio, receive only, 1.0m, 6mm international female thread
- CR36	Fibreglass whip and base, AM/FM radio, receive only, 1.0m
- CR66	Medium-duty fibreglass whip and base, AM/FM radio, receive only, 1.5m
- CR66-HD	Heavy-duty fibreglass whip and base, AM/FM radio, receive only, 1.83m
- CT90	Aluminium low profile, AM/FM radio, receive only

2-Way coaxial splitter for DAB radio to AM/FM Radio ***NEW***

2-Way coaxial splitter for 27MHz/VHF/UHF to AM/FM radio ***NEW***

GPS multiband fleet management

- Z1227-LNA & Z1575-LNA	Collinear with internal low noise amplifier, L2 GPS 1227.6MHz or L1 1575.42MHz
- ZAU-3C Series	Low profile, mobile phone & GPS, 1dBi & 27dB typical, FME and SMA
- ZAU-3S Series	Low profile, mobile phone, GPRS & GPS, 26dB & 1dBi typical, SMA only
- ZAU-9-LTE	Low profile, 4G LTE, 4G, 3G, GPS/GLONASS and WiFi/WLAN, SMA terminations
- ZAW Series	Low profile, mobile phone, GPS & WiFi
- ZAW-9-LTE	Low Profile, mobile phone, GPS & WiFi, 4G LTE, 4G, 3G & GSM, no terminations
- ZAU-GPSWL-5	Low Profile 'Shark-fin', 4G LTE, 4G & 3G, GPS and WiFi, specify terminations
- GCFRA & GCT	Low profile, mobile phone, GPS & WiFi or mobile phone & GPS
- ZGPS Series	Patch antenna, GPS 1575.42MHz, 4.5 dBi, Fakra blue, SMA male or SMC male
- CT150	HIPS enclosed low profile, satellite communications & GPS, Low Profile, 0dBd

Antenna installation accessories

How to order

Terms & conditions of sale

Contact us

BFB1

Ground independent tunable fibreglass whip VHF low band 70-85MHz



The BFB1 is specifically designed and manufactured for VHF low band with the purpose to be field tuned to required frequency once installed either on your vehicle or structure.

The BFB1 does not come with a cable assembly, please order a specific cable assembly to suit your requirements.

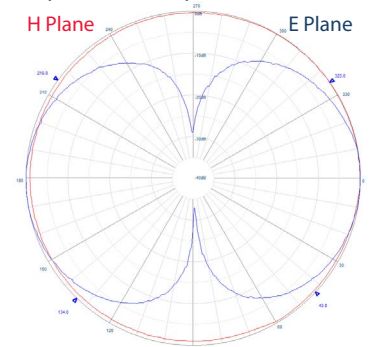
Mounting hardware, adaptors, connectors and other installation accessories are all available separately.

Specifications	BFB1
Construction	Stainless steel whip, white fibreglass radome and grey PVC mount base with external termination
Frequency range	VHF low band 70-85MHz
Bandwidth	Any 3% - see tuning
Tuning	Field tune the stainless steel tip using SWR meter
VSWR	<1.5:1 across bandwidth
Gain	2.1dBi
Maximum power	100 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Connector	N-type female in side of ferrule - no cable
Height	1.83 metres
Weight	500grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Bracket Mounting: GM1, GM2, GM6 or A-6211 Spring Base: 1269 or 1270
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole



N-type female in side of mount ferrule

Sample Radiation pattern at 75MHz



GRLT

Ground independent omni-directional elevated feed whip VHF low band 70-77MHz



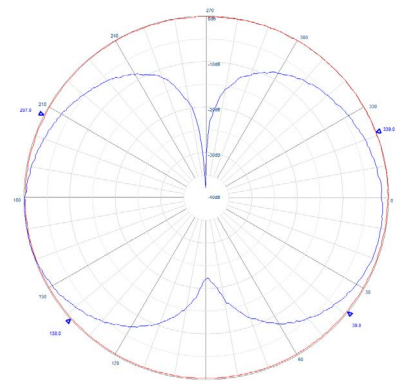
The GRLT is a ground independent, half wave, end fed VHF low band antenna suitable for mounting either on your vehicle or structure. The GRLT needs a good earth at its mounting position, but there is no need for a full ground plane for the GRLT to perform to specifications.

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

Specifications	GRLT
Construction	Stainless steel whip, delrin and chrome base - no spring
Frequency range	VHF low band 70-77MHz
Bandwidth	Any 2MHz - see tuning
Tuning	Field tune stainless steel whip with SWR meter
VSWR	<1.5:1
Gain	2.1dBi
Maximum power	100 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	5.5 metres RG58 stranded (bottom exits from base)
Connector	UHF male PL259 - <u>supplied, not fitted</u>
Height	1.57 metres
Weight	500grams
Mounting hardware order separate	Spring base: 1269 or 1270 - <u>fit before connector</u> Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6, A-6211 Bull bar mounting: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole



PL259 UHF male supplied not fitted



Sample radiation pattern at 70MHz



MRM-SS



GM1



A-6211



BBKB-B



1270

M11T and M12T

VHF low band whips with 5/16"-26 TPI female thread

VHF 70-100MHz

 In-stock
Ready to
Ship

For the VHF low band range, the M11T and M12T whips are the ideal solution, with the flexibility to be vehicle or fixed position mounted.

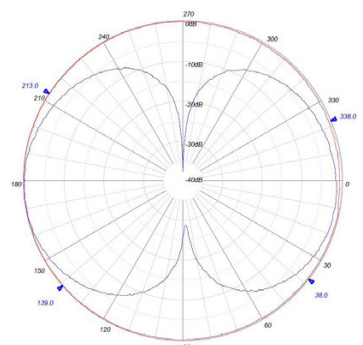
These VHF whips will require a suitable base, please specify requirements/mounting position for a suitable mounting solution.

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

Specifications	M11T	M12T
Construction	Type 17-7PH stainless steel whip and chrome ferrule	Black heatshrink fiberglass whip, chrome ferrule
Frequency range	VHF 70-100MHz - see tuning	
Tuning	Field trim to required frequency using a SWR meter	
VSWR	<1.5:1	
Gain - nominal	2.1dBi	
H Plane:	360° omni-directional, ± 0.5dBd	
Maximum power	50 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
Height before tuning	1090mm	
Weight	79grams	
Mount ferrule thread	5/16"-26 TPI female	
Mounting hardware order separate	Base with bracket: OB-4.7 with GM1/GM2/MRM-SS Magnetic base: MGB-OB	
Mounting position recommended	As high on your vehicle/structure as possible using an appropriate base with bracket or magnetic base with a 5/16"-26TPI male thread - see above	



5/16-26 TPI female thread in ferrule



Sample radiation pattern



OB-2 base
No cable



OB-4.7



MGB-OB

GRHFC-LB

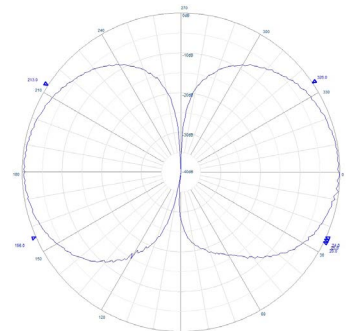
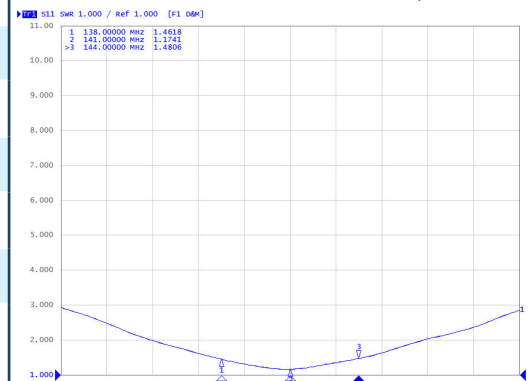
Ground independent wideband fixed cable whip
VHF lower band 138-148MHz



The GRHFC-LB ground independent, half wave, end fed whip antenna is suited for vehicle or fixed position mounting using an appropriate bracket or appropriate sized mount hole.

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

Specifications	GRHFC-LB
Construction	Type 17-7PH 304 grade stainless steel whip, black delrin base, fixed cable assembly and termination
Frequency range	VHF 138-148MHz
Bandwidth	Full frequency range
Tuning	Factory
VSWR	<1.5:1
Gain	2.1dBi
Maximum power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Height	1.07 metres
Weight	400grams
Cable	Fixed 5.0m MIL-SPEC RG58A/U bottom exit from base
Connector	BNC male fitted as standard or specify requirements
Mounting hardware order separate	Bull bar: BBM-SS, BBML-SS or BBMXL-SS Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6, A-6211 or BBKB-B
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 10mm hole or appropriate bracket with a 10mm hole



GRH Series

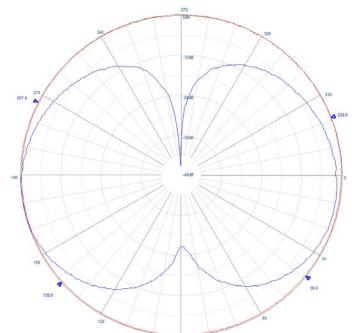
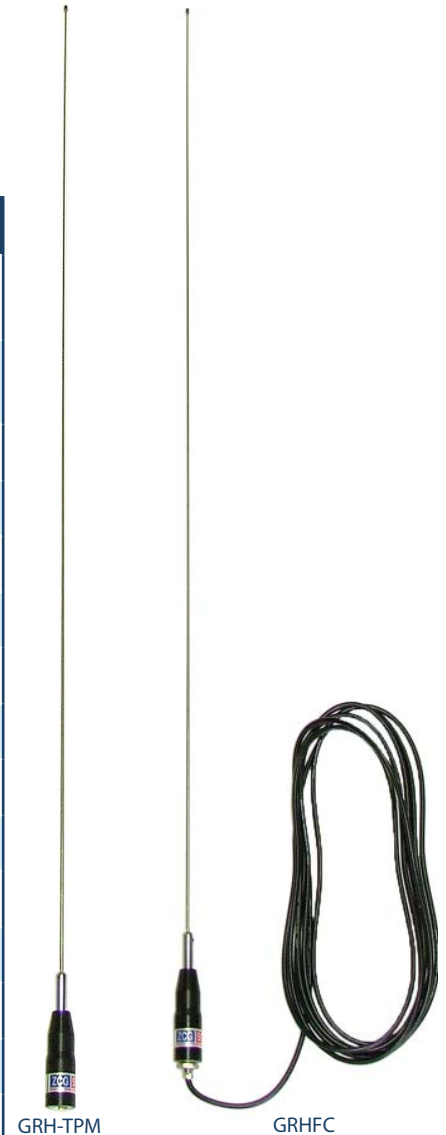
“Quick Fit” or fixed cable ground independent VHF whip
VHF 148-174MHz


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

The GRH series of “Quick-Fit” ground independent, half wave, end fed antennas are ideally suited for vehicle or fixed position mounting using the appropriate bracket.

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

Specifications	GRH	GRH-TPM	GRHFC*
Construction	304 grade stainless steel whip, black delrin base and cable assembly		
Includes	Antenna top, cable base	Antenna top	Antenna with fixed cable
Detachable	Yes		No
Frequency range	VHF 148-174MHz		
Bandwidth	Any 4MHz		
Tuning	Field tune whip once installed using SWR meter		
VSWR	<1.5:1 - a tuning guide is provided on install guide		
Gain	2.1dBi		
Maximum power	50 Watts		
Impedance	50 Ohms		
Polarisation	Vertical		
H Plane	360° omni-directional		
Height	1.17 metres		
Weight	460grams	175grams	400grams
Cable	RA6.0 cable base	None	Fixed 4.5 metres
Connector - not fitted	BNC male	UHF male in base	Order separate
Mounting hardware order separate	Bull bar: BBM-SS, BBML-SS or BBMXL-SS Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or A-6211		
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 16mm hole - GRH, or 10mm hole - GRHFC, or appropriate bracket with appropriate hole		



GRH series sample radiation pattern



GRHT-200

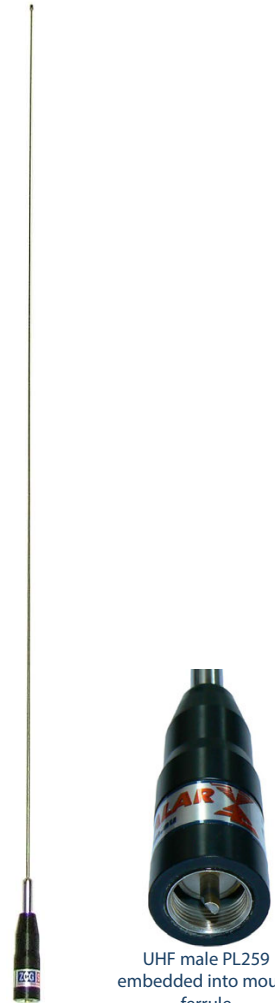
Ground independent VHF stainless steel whip VHF 174-220MHz



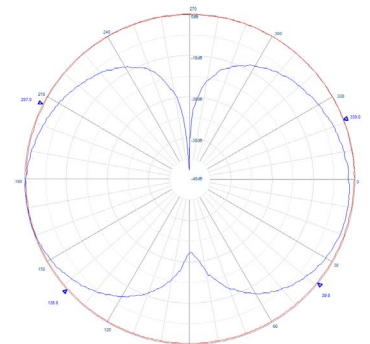
The GRHT-200 ground independent stainless steel whip is suitable for wireless microphone transmission, analogue or digital TV or VHF applications within the 174-220MHz range.

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

Specifications	GRHT-200
Construction	Type 17-74PH 304 grade stainless steel whip, black delrin base, chrome plated fittings
Frequency range	VHF 174 - 220MHz
Bandwidth	2%
Tuning	Field tune using SWR meter
VSWR	<1.5:1 at field tuned 2% bandwidth
Gain	2.1dBi
Maximum power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Height	800mm
Weight	150grams
Connector	UHF male in antenna mount ferrule
Mounting hardware order separate	7994/ RA-4.7 or MGB-UHF Mounting brackets for RA-4.7 or 7994: BBM-SS, BBML-SS, BBMXL-SS, BBKB-B ATLM-B, ATLM-CH, GM1, GM2
Mounting position recommended	Mount as high on your vehicle or structure as possible using an appropriate base and 16mm bracket or magnetic base



UHF male PL259
embedded into mount
ferrule



Sample radiation pattern at 200MHz



7994



RA-4.7



MGB-UHF



BBML-SS



BBKB-B

M21T and M22T

VHF high band whip with 5/16"-26 TPI female thread

VHF 144-174MHz



For the VHF high band range, the M21T and M22T whips are the ideal solution, with the flexibility to be vehicle or fixed position mounted.

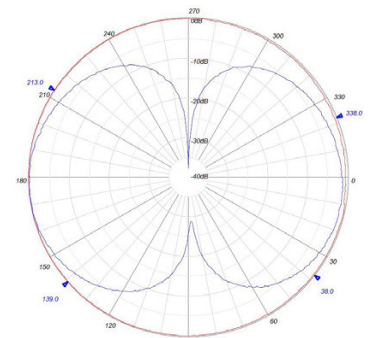
These VHF whips will require a suitable base, please specify requirements/mounting position for a suitable mounting solution.

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

Specifications	M21T	M22T
Construction	Type 17-7 PH stainless steel whip and chrome ferrule	Black heatshrink fiberglass whip, chrome ferrule
Frequency range	VHF 144-174MHz - see tuning	
Tuning	Field trim to required frequency using a SWR meter	
VSWR	<1.5:1 once installed and field tuned	
Gain - nominal	2.1dBi	
Maximum power	50 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional, ± 0.5dBd	
Height before tuning	550mm	530mm
Weight	50grams	65grams
Mount ferrule thread	5/16"-26 TPI female	
Mounting hardware order separate	Base - no cable: OB-2 Base with bracket: OB-4.7 with GM1/GM2/MRM-SS Magnetic base: MGB-OB	
Mounting position recommended	As high on your vehicle/structure as possible using an appropriate base with bracket or magnetic base with a 5/16"-26 TPI male thread	



5/16-26 TPI female thread in ferrule



Sample radiation pattern



OB-2 base
No cable



OB-4.7



M21T-WB

VHF high band whip and PCB OB-2 base
Full VHF / Land Mobile Radio 148-175MHz


In-stock
Ready to
Ship

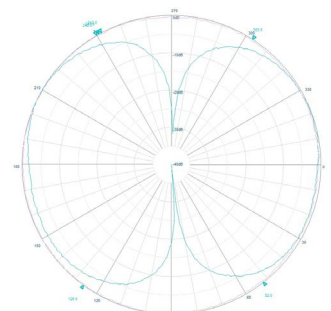
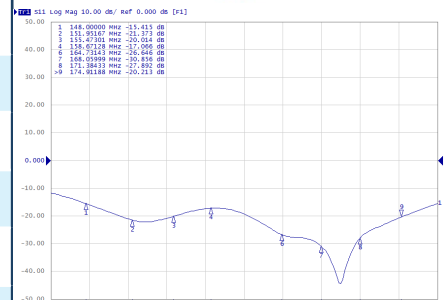
The M21T-WB is the ideal VHF/ LMR communications antenna for all emergency services vehicles, commercial or recreational vehicles as well as military applications. ZCG has matched its tried and tested, reliable construction with the broad bandwidth capability of the M21T-WB to cover VHF 148-175MHz.

Please note: the M21T-WB is ground dependent, requiring a metallic ground plane such as a vehicle roof or a structure with a metallic roof.

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



Specifications	M21T-WB
Construction	17-7PH stainless steel tapered whip, OB-2 standard base and cable assembly
Frequency range	VHF / LMR 148-175MHz
Tuning	Factory - no additional tuning required
VSWR	<1.5:1
Gain - nominal	2.1dBi
Maximum power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional, ± 0.5 dBd
DC grounding	Yes
Ground independent	No - <u>requires metallic ground plane</u>
Height	450mm - including base
Weight	65grams
Connector	No termination - specify requirements
Cable	4.7 metres RG58 MIL-SPEC stranded - side exits from the PCB and OB-2 in the base - or specify cable length requirements
Mounting base	OB-2 Australian standard base with 5/16"-26TPI male thread
Mounting position recommended	Deconstruct OB-2 base and mount as high on your structure or vehicle as possible on a metallic ground plane, to ensure a omni-directional pattern.



Sample radiation pattern at 148MHz

NEW

ZW312V-BLK

5/16"-26 TPI threaded whip
VHF 156-162MHz communications



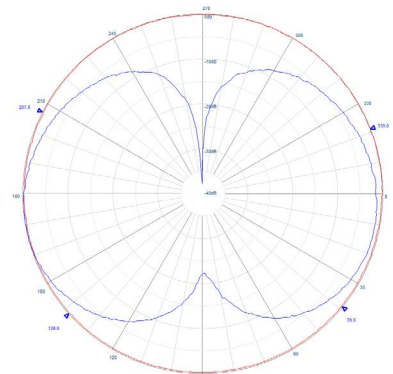
The ZW312V-BLK is an effective VHF whip designed for transmit and receive at 156-162MHz. The ZW312V-BLK comes standard with a female 5/16"-26 TPI thread in the mount ferrule.

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

Specifications	ZW312V-BLK
Construction	Black heatshrunk fibreglass and chrome mount ferrule
Frequency range	VHF 156-162MHz communications
Gain	2.1dBi
VSWR	<1.5:1
Tuning	Factory
Maximum power	25 Watts
Polarisation	Vertical
H Plane	360° omni-directional
Height	640mm
Weight	60grams
Mount ferrule thread	5/16"-26 TPI female thread - also available in European 3/8" UNF-24TPI thread upon request
Mounting hardware order separate	Base: OB-2 base - no cable Cable base: OB-4.7 with UHF male PL259 Magnetic base: MGB-OB and specify termination
Mounting position recommended	Mount as high on your vehicle or structure as possible using an appropriate base and 16mm holed bracket or magnetic base.
Alternate models	ZW312V - all white whip, suitable for caravans ZM312V - all white whip and cable base - for caravans



5/16-26TPI female thread in mount ferrule



Sample radiation pattern



OB base
No cable or connector order separate



OB-4.7



MGB-OB
order radio connector separate

VHF-H series

NEW VHF flexible helical whip with UHF male or N-type male
VHF high band 162.5MHz or 173MHz

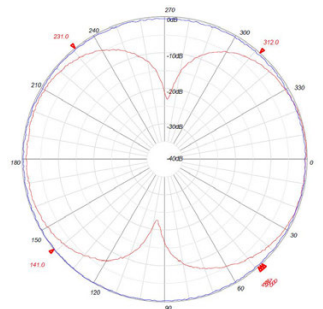


The VHF-H series are ground independent, flexible, helical whip specifically designed for the VHF frequency 162.5MHz or 173MHz. The frequency can be customised to a specified frequency, please contact ZCG for more information.

The VHF-H series do not come supplied with a cable base, please specify requirements when ordering or contact ZCG for assistance with a custom mounting solution.

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

Specifications	VHF-H162	VHF-H162-NM	VHF-H173
Construction	Heatshrink helical whip and black delrin ferrule		
Frequency range	VHF 162.5MHz - or specify custom frequency	VHF 162MHz - or specify custom frequency	VHF 173MHz - or specify custom frequency
Bandwidth	1MHz around frequency		
VSWR	<1.5:1		
Tuning	Factory		
Gain	2.1dBi		
Impedance	50 Ohms		
Maximum power	25 Watts		
H Plane	360° omni-directional		
Connector - fitted	UHF male in base of ferrule	N-type male in base of ferrule	UHF male in base of ferrule
Height	480mm		
Weight	210grams		
Mounting hardware order separate	Cable base: RA-4.7 or RA6.0 Magnetic base: MGB-UHF	Consult ZCG for available options	Cable base: RA-4.7 or RA6.0 Magnetic base: MGB-UHF
Mounting position recommended	As high on your vehicle/structure as possible using an appropriate base with 16mm holed bracket or magnetic base with an opposite gender termination		



CT70 & CT160

Low profile and rugged
VHF 68-88 or 148-174MHz



The low profile and rugged CT70 and CT160 VHF vehicle mount antenna are the ideal choice in situations where a traditional whip would be vulnerable to damage, vandalism or where space is at a premium.

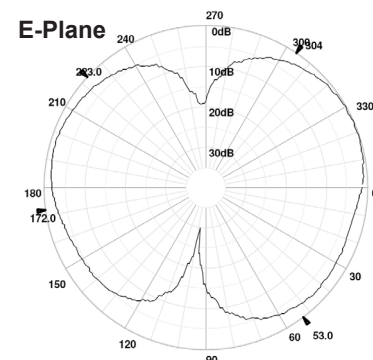
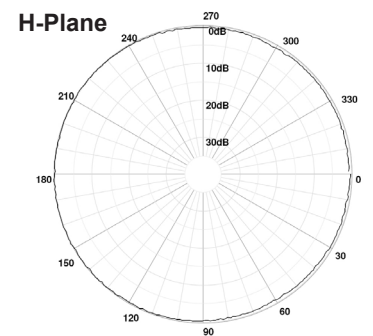
Suitable applications:

- Trains/Trams
- Buses
- Forklifts
- Tractors
- Forestry Vehicles
- Military
- Police
- Ambulance
- Fire Brigade
- Emergency Services
- Security Services
- Mining



CT160 with adjustable tuning plate

Specifications	CT70	CT160
Construction	Aluminium, delrin and tri-metal plated connector	
Frequency range	VHF 68-88MHz	VHF 148-174MHz
Bandwidth	3MHz - specify when ordering	
Tuning	Factory tuned to specified frequency - specify on order	
VSWR	<1.5:1 across specified bandwidth	
Gain - nominal	2.1dBi	
Maximum power	100 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	Near 360 ° omni-directional	
E Plane	Same as normal 1/4 wave whip	
Connector	N-type female fitted to base, bottom exit	
Dimensions	Length: 560mm, Width: 80mm, Height: 80mm	Length: 540mm, Width: 60mm, Height: 110mm
Weight	1.64kg	1.63kg
Mounting hardware supplied	6 x M6 x 20mm stainless steel bolts, nuts and washers	
Minimum ground plane	1.2 metres square - metallic surface	
Mounting position recommended	Mount as high on your vehicle or structure as possible on a flat metallic surface.	



CT160-RD Series

Radome enclosed low profile and rugged
VHF 140-174MHz & L1 GPS 1575.42MHz



The low profile, rugged radome enclosed CT160-RD series of VHF antenna is the ideal choice in situations where a traditional whip would be vulnerable to damage or vandalism or a low profile required.

Typical applications:

- Trains/Trams
- Police
- Buses
- Ambulance
- Forklifts
- Fire Brigade
- Tractors
- Emergency Services
- Forestry Vehicles
- Security Services
- Military
- Mining

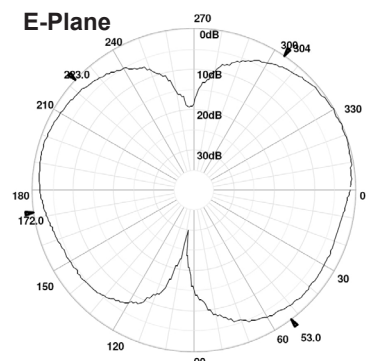
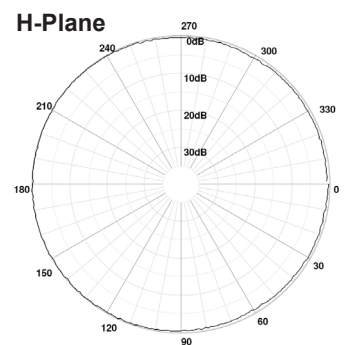
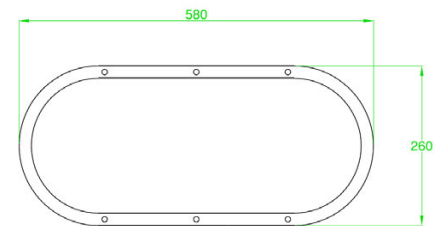


CT160-RD



CT160-RD-GPS

Specifications	CT160-RD	CT160-RD-GPS
Construction	White H.I.P.S. (high impact polystyrene) radome, aluminium mount plate and chrome termination. GPS model has internal GPS module	
Frequency range	VHF 140-176MHz	VHF 140-176MHz L1 GPS: 1575.42MHz
Bandwidth	Specify any 3MHz within band	
VSWR	<1.5:1 across specified frequency	
Tuning	Factory	
Gain - nominal	2.1dBi	
Maximum power	100 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	Near 360° omni-directional	
E Plane	90°	
Connector & cable	VHF: N-type female fitted in base of antenna - no cable GPS: 5.0m RG174A/U with SMA male - rear exit from antenna	
Dimensions	Length: 580mm, Width: 260mm, Height: 70mm	
Weight	1.1kg	1.2kg
Mounting hardware	6 x M6 x 20mm bolts supplied 1 x 16mm hole for N-type female insertion	
Minimum ground plane	Ground plane is base plate of antenna	



OZ Series

Adhesive on-glass mount conductive whip and base

VHF 144-175MHz or UHF 390-520MHz



A vehicle on-glass antenna is a popular alternative to other bracket mounted antenna. These OZ series on-glass VHF or UHF models are simple to install, just stick and connect.

Please note: The internal adhesive ground plane strips should not be trimmed. Unit should not be adhered to any window with heater dimister elements, imbedded antennas, metallic flakes or UV tinting.

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

Specifications	OZV-1	OZU-1	OZU-3
Construction	Black stainless steel whip, thermoplastic adhesive base and cable assembly		
Frequency range	VHF 144-175MHz	UHF 390-520MHz	
Bandwidth - specify	4MHz	15MHz	20MHz
Tuning	Field tune adjustable capacitor, using SWR meter		
VSWR	<2:1		
Gain	2.1dBi	5.1dBi	2.1dBi
Maximum power	30 Watts	50 Watts	30 Watts
Impedance	50 Ohms		
Polarisation	Vertical		
H Plane	360° omni-directional		
Cable assembly - supplied	4.5 metres RG58 stranded		
Connector - OZ box	Mini-UHF male fitted to suit internal junction box		
Connector - device	Select and order as per requirements		
Whip type	1/2 λ (Wave)	5/8 λ (Wave)	1/4 λ (Wave)
Height	860mm	560mm	230mm
Weight	300grams		
Installation kit contents	3mm allen key, alcohol glass wip, installation/tuning guide		
Mounting position recommended	Mount on the top of your windscreen or rear window. Ensure heating elements, imbedded antennas, tint or metallic flakes are not present.		



OZV-1



OZU-1



OZU-3

GRN Series

Highly flexible UHF ground independent whips
UHF 330-665MHz


In-stock
Ready to
Ship
* denouces build to
order items only

The GRN series of half wave UHF highly flexible mobile antennas are virtually unbreakable. Perfect for rugged off-road driving, forklifts and tractors. The GRNFC denotes a fixed cable exiting the bottom of the mount ferrule. The standard GRN series comes with a detachable 4.7 metres RG58A/U base.

Specifications	GRN Series	GRNFC Series
Construction	Black flexible radome, black polyamide moulded ferrule, internal connector and detachable external cable assembly	
Frequency range (select frequency or specify requirements)	GRN/GRNFC340 - 330-350MHz *	GRN/GRNFC370 - 360-380MHz *
	GRN/ GRNFC385 - 375-395MHz *	GRN/ GRNFC410 - 400-420MHz *
	GRN/ GRNFC430 - 420-440MHz *	GRN/ GRNFC460 - 450-470MHz
	GRN/ GRNFC480 - 470-490MHz	GRN/ GRNFC510 - 500-520MHz
	GRN570 - 555-585MHz *	GRN650 - 635-665MHz *
Tuning	Factory	
VSWR	<1.5:1	
Gain	4dBi	
Impedance	50 Ohms	
Maximum power	50 Watts	
Polarisation	Vertical	
Weight	360grams	320grams
Height & cap colour	GRN/ GRNFC340 - 450mm Black	GRN/ GRNFC370 - 430mm Black
	GRN/ GRNFC385 - 400mm Green	GRN/ GRNFC410 - 360mm White
	GRN/ GRNFC430 - 350mm Brown	GRN/ GRNFC460 - 340mm Red
	GRN/ GRNFC480 - 330mm Blue	GRN/ GRNFC510 - 310mm Yellow
	GRN570 - 425mm Black	GRN650 - 425mm Black
Connector	UHF male supplied, not fitted for ease of installation	
Cable	Detachable 4.7 metres MIL-SPEC RG58A/U*	4.7 metres MIL-SPEC RG58A/U fixed - bottom exit from base
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6	
Mounting position recommended	Mount as high on your vehicle or structure as possible using an appropriate 16mm (GRN) or 10mm (GRNFC) bracket or hole.	



GRN460



GRNFC460

* can be supplied with 6.0-8.0 metre cable assembly upon request.

GRN-TPM Series

Highly flexible UHF Ground independent replacement whips
UHF 330-650MHz



The GRN-TPM series of half wave UHF highly flexible mobile whip tops are virtually unbreakable. Perfect for rugged off-road driving, forklifts and tractors or where high risk of damage may occur.

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

Specifications	GRN-TPM Series	
Construction	Black nylon radome moulded polyamide ferrule and internal termination	
Frequency range (select frequency or specify requirements)	GRN340-TPM - 330-350MHz	GRN350-TPM - 340-360MHz
	GRN370-TPM - 360-380MHz	GRN385-TPM - 375-395MHz
	GRN390-TPM - 380-400MHz	GRN410-TPM - 400-420MHz
	GRN430-TPM - 420-440MHz	GRN460-TPM - 450-470MHz
	GRN480-TPM - 470-490MHz	GRN510-TPM - 500-520MHz
	GRN570-TPM - 555-585MHz	GRN650-TPM - 630-650MHz
Tuning	Factory	
VSWR	<1.5:1	
Gain	4dBi	
Impedance	50 Ohms	
Maximum power	50 Watts	
Polarisation	Vertical	
Weight	120grams	
Height and cap colour	GRN340-TPM - 450mm Black	GRN350-TPM - 440mm Black
	GRN370-TPM - 430mm Black	GRN385-TPM - 400mm Green
	GRN390-TPM - 410mm Green	GRN410-TPM - 360mm White
	GRN430-TPM - 350mm Brown	GRN460-TPM - 340mm Red
	GRN480-TPM - 330mm Blue	GRN510-TPM - 310mm Yellow
	GRN570-TPM - 425mm Black	GRN650-TPM - 425mm Black
Connector - supplied	UHF male located in base of ferrule	
Mounting hardware order separate	7994 - requires cable / RA-4.7/ RA-6.0/ RA-8.0 or MGB-UHF	
Mounting position recommended	Mount as high on your vehicle or structure using an appropriate base and 16mm holed bracket or magnetic base	



MGB-UHF



RA-4.7



7994

NEW

GRN-NM Series

Ground independent flexible UHF Whips
N-type male termination



The GRN-NM series of half wave UHF highly flexible mobile antennas are **virtually unbreakable**. Perfect for rugged off-road driving, forklifts and tractors.

The GRN-NM differs from our standard GRN series due to being terminated with an N-type male in place of the UHF male, so cannot be fitted to an existing GRN base.

Specifications	GRN-NM series	
Construction	Black flexible radome, black delrin mount ferrule and internal N-type male termination	
Frequency range (select frequency or specify requirements)	GRN340-NM - 330-350MHz	GRN370-NM - 360-380MHz
	GRN385-NM - 375-395MHz	GRN410-NM - 400-420MHz
	GRN430-NM - 420-440MHz	GRN460-NM - 450-470MHz
	GRN480-NM - 470-490MHz	GRN510-NM - 500-520MHz
	GRN570-NM - 555-585MHz	GRN650-NM - 635-665MHz
Tuning	Factory	
VSWR	<1.5:1	
Gain	4dBi	
Impedance	50 Ohms	
Maximum power	50 Watts	
Polarisation	Vertical	
Weight	360grams	
Height & cap colour	GRN340-NM - 450mm orange	GRN370-NM - 430mm orange
	GRN385-NM - 400mm Green	GRN410-NM - 360mm White
	GRN430-NM - 350mm Brown	GRN460-NM - 340mm Red
	GRN480-NM - 330mm Blue	GRN510-NM - 310mm Yellow
	GRN570-NM - 425mm Black	GRN650-NM - 425mm Black
Connector	N-type male internal in base	
Mounting hardware order separate	Will fit onto any cable assembly or base with a N-type female termination. Consult ZCG for more information.	
Mounting position recommended	Mount as high on your vehicle or structure as possible using an appropriate 16mm bracket or hole.	



N-type male embedded in base

GRNQF-340 & GRNQF-380

Highly flexible ground independent UHF magnetic base whip
UHF 310-350MHz or UHF 350-400MHz



The GRNQF-340 and GRNQF-380 half wave UHF antennas feature a highly flexible stainless steel whip top which is virtually unbreakable. Perfect for rugged off-road driving, forklifts and tractors, these ground independent mobile antennas can be mounted in various positions even inverted and offer effective performance.

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

Specifications	GRNQF-340	GRNQF-380
Construction	Type 17-7PH stainless steel whip, detachable delrin ferrule, magnetic base, external cable and termination	
Frequency range	UHF 310-350MHz	UHF 350-400MHz
Bandwidth	Specify any 20MHz when ordering	
VSWR	<1.5:1 across specified bandwidth	
Tuning	Factory	
Gain	4dBi	
Maximum power	25 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Height	450mm - height will decrease at higher frequencies	
Weight	500 grams	
Connector	Detachable top: UHF male PL259 Magnetic base: UHF female Cable assembly: SMA male as standard or specify	
Cable	5 metres RG58 side exit from base as standard- length can be customised to suit requirements.	
Mounting hardware	90mm diameter magnetic base	
Mounting position recommended	Mount antenna and base as high on your vehicle or structure as possible to ensure a true omni-directional pattern.	



NEW

GID-MB4052-S

Wideband ground independent elevated feed whip

TETRA / UHF / Land Mobile Radio 400-520MHz

In-stock
Ready to
Ship

The GID-MB4052-S ground independent wideband TETRA/UHF or Land Mobile Radio (LMR) antenna is suitable for locations where height is an issue. Suitable for TETRA systems or LMR emergency services applications. The GID-MB4052-S is also available with a heavy-duty barrel spring upon request or without a spring attached see GID-MB4052, please contact ZCG for more information and availability.

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

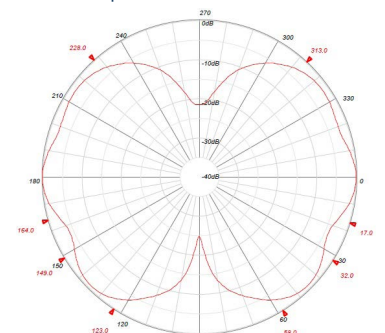
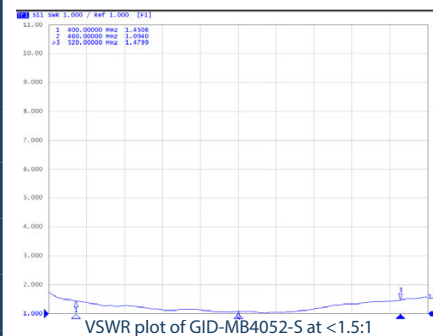
Specifications	GID-MB4052-S
Construction	Medium-duty parallel stainless steel spring, chrome ground independent elevated feed base, flexible whip and external cable.
Frequency range	TETRA / UHF / Land Mobile Radio 400-520MHz
Bandwidth	Full frequency range
VSWR	<1.5:1
Tuning	Factory
Gain	2.1dBi
Maximum power	50 Watts
Ground independent	Yes
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	5 metres MIL-SPEC RG58 stranded - bottom exit from spring base
Connector	UHF male PL259 supplied not fitted or specify requirements
Height	440mm including spring
Weight	700grams
Mounting hardware order separate	Mount using the parallel spring onto an appropriate 16mm hole bracket such as BBM-SS bull bar mount or BBKB-B knock-down mount, or alternatively utilise any 16mm hole.
Mounting position recommended	As high on your vehicle/structure as possible using an appropriate bracket or mount hole. Mount antenna minimum 350mm away from any other antenna.



Parallel spring base with bottom exit cable



PL259 UHF male supplied not fitted



GID-MB4052-S sample radiation pattern at 400MHz

GID-M series

UHF Ground Independent elevated feed antenna UHF/TETRA 400-520MHz


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

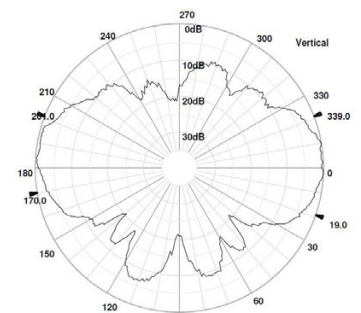
The GID series of elevated feed, ground independent antennas offer effective performance with good gain suitable for TETRA applications. The modest size and light-duty construction without a spring base make these antennas an excellent choice for light-duty vehicles or fixed position mounting using an appropriate bracket. For heavy-duty applications consider one of our spring based range

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

Specifications	GID-M Series	GID-MB Series
Construction	Black/polished steel whip, delrin and chrome base	Black heatshrunk fibreglass whip, delrin and chrome base
Frequency range	400 - 420MHz 420 - 440MHz 450 - 470MHz 470 - 490MHz 500 - 520MHz	GID-M410 - black tip * GID-M430 - brown tip * GID-M460 - red tip GID-M480 - blue tip GID-M510 - yellow tip *
VSWR	<1.5:1	
Tuning	Factory	
Gain	6.2dBi	
Maximum power	50 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable	4.5 metres RG58 low loss - bottom exits from base	
Connector	UHF male PL259 supplied not fitted	
Height	GID-M410 - 930mm GID-M430 - 890mm GID-M460 - 840mm GID-M480 - 800mm GID-M510 - 780mm	GID-MB410 - 960mm GID-MB430 - 940mm GID-MB460 - 870mm GID-MB480 - 850mm GID-MB510 - 800mm
Weight	590grams	
Mounting accessories order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or ATLM series	
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 10mm hole or appropriate bracket with a 10mm hole	



UHF Male connector PL259 supplied not fitted



NEW GID-MS Series Ground independent electro-polished elevated feed whip UHF/TETRA 400-520MHz



The GID-MS series of elevated feed, ground independent antennas offer effective performance with good gain suitable for TETRA applications.

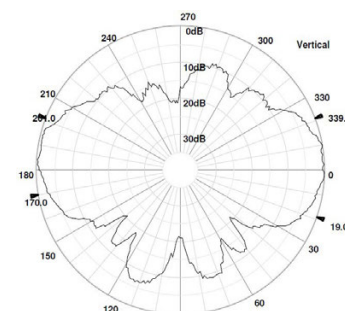
The modest size and light-duty construction without a spring base make these antennas an excellent choice for light-duty vehicles or fixed position mounting using an appropriate bracket. For heavy-duty applications consider one of our spring based range

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

Specifications	GID-MS series
Construction	17-7PH electro-polished stainless steel whip, delrin and chrome base and external cable assembly
Frequency range	GID-MS410 - 400-420MHz GID-MS430 - 420-440MHz GID-MS460 - 450-470MHz GID-MS480 - 470-490MHz GID-MS510 - 500-520MHz
VSWR	<1.5:1
Tuning	Factory
Gain	6.2dBi
Maximum power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
Cable	4.5 metres RG58 low loss - bottom exits from base
Connector	UHF male PL259 - supplied not fitted
Height & identification	GID-MS410 - 930mm with black tip GID-MS430 - 890mm with brown tip GID-MS460 - 840mm with red tip GID-MS480 - 800mm with blue tip GID-MS510 - 780mm with yellow tip
Weight	590grams
Mounting accessories order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 10mm hole or appropriate bracket with a 10mm hole



UHF Male connector PL259 supplied not fitted



GID-MS460 sample radiation pattern

GID-MB-SHD Series

Ground independent heavy-duty elevated feed spring base whip
UHF/TETRA 400-520MHz



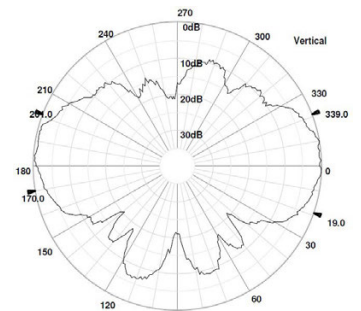
The GID-MB-SHD series of elevated feed, ground independent spring base antennas offer effective performance with effective gain, suitable for TETRA applications. The heavy-duty spring base design make these antennas an excellent choice for vehicle or fixed position mounting.

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

Specifications	GID-MB-SHD series
Construction	Black heavy-duty fibreglass whip, delrin and chrome elevated feed and heavy-duty 'barrel' spring base
Frequency range	400-420MHz - GID-MB410-SHD 420-440MHz - GID-MB430-SHD 450-470MHz - GID-MB460-SHD 500-520MHz - GID-MB510-SHD
VSWR	<1.5:1
Tuning	Factory
Gain	6.2dBi
Maximum power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	4.5 metres RG58 low loss bottom exit from spring
Connector	FME female fitted to cable for ease of installation
Adaptor	FME male to UHF male PL259 supplied
Height & identification	GID-MB410-SHD - 1040mm - White cap GID-MB430-SHD - 1020mm - Brown cap GID-MB460-SHD - 950mm - Red cap GID-MB510-SHD - 880mm - Yellow cap
Weight	920-850grams depending on model
Mounting accessories order separate	Bracket: GM1, GM2 or GM6 Adjustable bonnet mount: ATLM-B or ATLM-CH Bull bar mount: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B
Mounting position recommended	Mount as high as possible on your vehicle or structure to ensure a true omni-directional signal pattern. Ensure the antenna is installed in the optimum vertical polarisation



UHF Male PL259 to FME male adaptor supplied



GID-MB460-SHD sample radiation pattern

Please note: For 470-490MHz & 477MHz requirements see ZN4-77-06 or ZN4-77-06S

GID "Quick Fit" series

Ground independent "Quick-fit" phased coil elevated feed whip

UHF/TETRA 370-520MHz



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

The GID "Quick-fit" series of elevated feed, ground independent antennas are specifically designed and manufactured for the UHF frequency band between 370-520MHz. The detachable design makes installation so simple and the ability to be easily removed if you are concerned about damage, vandalism or theft.

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

Specifications	GID "Quick-fit" series
Construction	Black stainless steel whip with chrome and delrin base
Frequency range select and order	GID-M370-QF - 370MHz* GID-M390-QF - 390MHz* GID-M410-QF - 400-420MHz* GID-M430-QF - 420-440MHz* GID-M460-QF - 450-470MHz* GID-M480-QF - 470-490MHz GID-M510-QF - 500-520MHz
Tuning	Factory
VSWR	<1.5:1
Gain	6.6dBi
Maximum power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
Connector	UHF male in base
Weight	380grams
Height	GID-M370 & M390-QF - 970mm - Black cap GID-M410-QF - 950mm - White cap GID-M430-QF - 910mm - Brown cap GID-M460-QF - 860mm - Red cap GID-M480-QF - 820mm - Blue cap GID-M510-QF - 800mm - Yellow cap
Mounting hardware order separate	Cable assembly: RA-4.7 for 4.7m or RA-6.0 for 6.0m Magnetic base: 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



MGB-UHF



RA-4.7

GRUFC

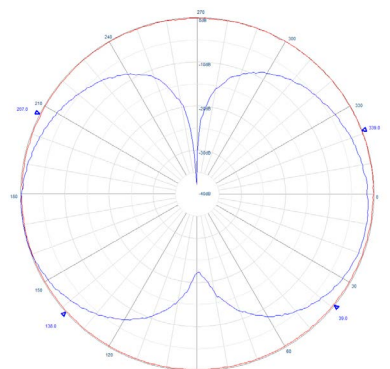
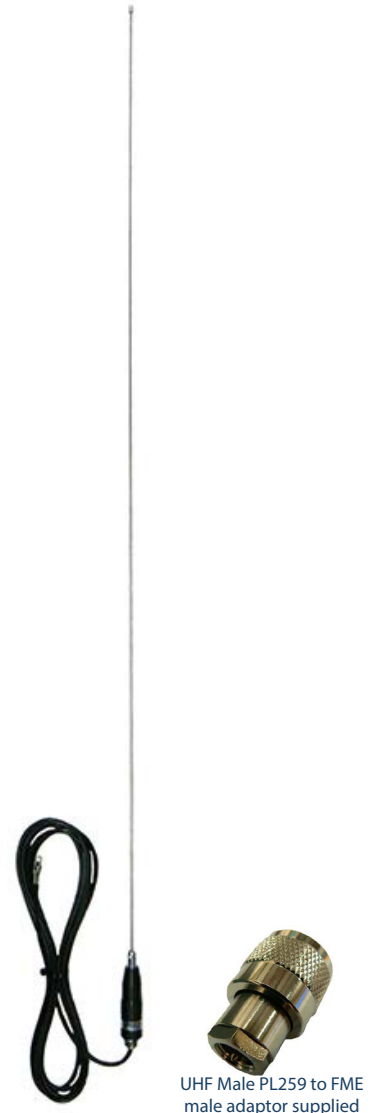
UHF ground independent half-wave whip UHF/TETRA 420-520MHz



The GRUFC ground independent UHF half-wave whip is an end fed design, ideally suited for mounting to a bull bar, guard, boot or a truck mirror or for fixed position mounting using the appropriate bracket.

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

Specifications	GRUFC
Construction	Type 17-7PH 304 stainless steel whip, black delrin base and fixed cable assembly
Frequency range	UHF 420-520MHz
Bandwidth	Specify any 15MHz when ordering
Tuning	Factory
VSWR	<1.5:1
Gain	2.1dBi
Maximum power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional, ± 0.5 dBd
Cable	4.5 metres RG58 low loss - bottom exit from base
Connector	FME female fitted to cable assembly
Adaptor	FME Male to UHF male PL259 - supplied
Height at 420MHz	1.1 metres - higher frequencies height reduces slightly
Weight	360grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6, A-6211 or ATLM
Mounting position recommended	As high on your vehicle or structure as possible using a minimum 10mm hole or appropriate bracket with a 10mm hole.



BBM-SS



GM1



A-6211



MRM-SS



BBKB-B

NEW

M400-OB series

UHF phased coil whip and cable base
UHF/TETRA 400-520MHz



The MB400-OB series of ground dependent black stainless steel whip and OB base offer effective performance with effective gain, suitable for TETRA/UHF applications. The OB-2 Australian standard base is ideal for vehicle or fixed position mounting.

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

Specifications		MB400-OB series	
Construction		Type 17-7PH stainless steel whip (black or electro-polished, specify with black OB Australian standard base and external cable	
Frequency range	400-420MHz	M410-OB4.0	MS410-OB4.0
	420-440MHz	M430-OB4.0	MS430-OB4.0
	450-470MHz	M460-OB4.0	MS460-OB4.0
	470-490MHz	M480-OB4.0	MS480-OB4.0
	500-510MHz	M510-OB4.0	MS510-OB4.0
VSWR	<1.5:1		
Tuning	Factory		
Gain	6.2dBi on a metallic ground plane		
Maximum power	50 Watts		
Impedance	50 Ohms		
Polarisation	Vertical		
H Plane	360° omni-directional		
Cable and connector	4.0 metres RG58 MIL-SPEC stranded, specify termination BNC, SMA, N-type, MMCX, Fakra, UHF, TNC, etc Longer cable lengths available, consult ZCG.		
Whip mounting thread	5/16"-26 TPI female in mount ferrule		
Height & identification marker	M410-OB4.0 - 750mm - White cap M430-OB4.0 - 730mm - Brown cap M460-OB4.0 - 660mm - Red cap M480-OB4.0 - 630mm - Blue cap M510-OB4.0 - 590mm - Yellow cap		
Weight	300-500grams depending on model		
Mounting hardware order separate	Bracket: GM1, GM2, GM6, ATLM series or A-6211 Hole requirements: minimum 16mm diameter		
Mounting position recommended	Mount as high as possible on your vehicle or metallic structure to ensure a true omni-directional signal pattern. Ensure the antenna is installed in the optimum vertical polarisation		



MS480-OB4.0



MS480-OB4.0

M and MB Series

Stainless steel or fibreglass phased coil whips

UHF/TETRA 400-520MHz


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

These range of UHF whips offer both excellent performance with medium nominal gain, with the flexibility to be used in either vehicle or fixed position locations.

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

Specifications	M series whips	MB series whips
Construction	Powder-coated black 17-7PH stainless steel whip and mount ferrule	Black heatshrunk fibreglass, chrome ferrule - <u>also available in white upon request</u>
Frequency range	M390 - 380-400MHz* M410 - 400-420MHz M430 - 420-440MHz M460 - 450-470MHz M480 - 470-490MHz M510 - 500-520MHz	MB410 - 400-420MHz* MB430 - 420-440MHz* MB460 - 450-470MHz MB480 - 470-490MHz MB510 - 500-520MHz*
VSWR	<1.5:1 across selected frequency range	
Tuning	Factory	
Gain - nominal	6.2dBi	
Maximum power	50 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
Height and cap colour	M390 - 750mm, black tip M410 - 700mm, black tip M430 - 650mm, brown tip M460 - 600mm, red tip M480 - 560mm, blue tip M510 - 530mm, black tip	MB410 - 730mm, white band MB430 - 710mm, brown band MB460 - 630mm, red band MB480 - 600mm, blue band MB510 - 590mm, yellow band
Mount ferrule thread	internal 5/16"-26 TPI female	
Weight	78grams	80grams
Mounting hardware order separate	Cable base: OB-4.7 for 4.7m or OB-8.0 for 8.0m Magnetic base: MGB-OB	
Mounting position recommended	Mount as high on your vehicle or structure as possible using the appropriate cable assembly and 16mm hole bracket or magnetic base	



OB-4.7



MGB-OB



MB-HD series

Heavy-duty fibreglass UHF phased coil whips UHF/TETRA 400-520MHz



The MB-HD series of heavy-duty whips offer effective performance with effective gain, suitable for TETRA applications. The heavy-duty construction of these whips results in ideal performance and a long service life, ideal for vehicle or fixed position mounting.

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

Specifications	MB-HD series
Construction	Black heatshrink heavy-duty fibreglass and chrome mount ferrule
Frequency range	400-420MHz - MB410-HD 420-440MHz - MB430-HD 450-470MHz - MB460-HD 470-490MHz - MB480-HD 500-520MHz - MB510-HD
VSWR	<1.5:1 full selected frequency range
Tuning	Factory
Gain	6.2dBi
Maximum power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Mounting thread	5/16"-26 Brass female thread in ferrule
Height & identification marker	MB410-HD - 720mm - white cap MB430-HD - 700mm - brown cap MB460-HD - 630mm - red cap MB480-HD - 600mm - blue cap MB510-HD - 560mm - yellow cap
Weight	120-200grams depending on model
Mounting accessories order separate	Base, no cable or connector: OB-2 Magnetic base: MGB-OB or MGB-OB-2 Replacement for: GID-MB*** or GID-MB***-SHD - check frequency or consult ZCG
Mounting position recommended	Mount as high as possible on your vehicle or structure to ensure a true omni-directional signal pattern. Ensure the antenna is installed in the optimum vertical polarisation



5/16"-26 TPI female thread in mount ferrule

MAG-B series

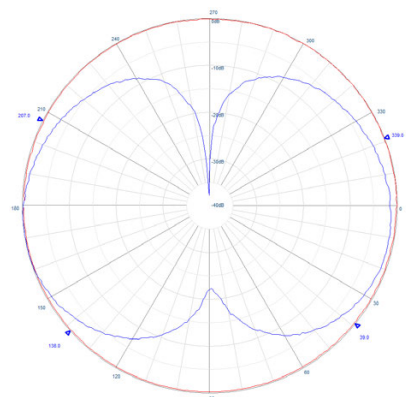
Magnetic base UHF/TETRA communications
UHF 350MHz or 470MHz



The MAG-B series of magnetic base UHF antennas are specifically designed for portable or short-term installation applications such as on a hire vehicle or multiple vehicle in a fleet. The MAG-B series comes standard with the magnetic radiating whip base and a 5.0 metre cable assembly ready for installation.

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

Specifications	MAG-B350	MAG-B470
Construction	Black powdercoated whip, black moulded magnetic base and cable assembly	
Frequency range	UHF 350MHz or specify requirements	UHF 470MHz or specify requirements
VSWR	<1.8:1	
Tuning	Factory - or field tune once installed	
Gain - nominal	2.1dBi	
Maximum power	10 Watts	
Impedance	50 Ohms	
Polarisation	Vertical or inverted	
H Plane	360° omni-directional	
Cable	5 metres RG58 MIL-SPEC low loss with one end fitted with FME female, see install termination below	
Connector	SMA male fitted to cable or specify requirements	BNC male fitted to cable or specify requirements
Height	890mm	850mm
Weight	120grams	100grams
Mounting requirements	Requires flat magnetic metallic surface such as roof of vehicle/vessel or structure	
Mounting position recommended	As high on your vehicle or structure as possible to ensure a true omni-directional signal, can also be mounted inverted	



Sample radiation pattern



M6-1 male thread for whip on base



FME male in magnetic base



FME female for base termination



SMA male termination
MAG-B350



BNC male termination
MAG-B470

M45T

Highly flexible galvanised steel wire whip
UHF/TETRA 400-520MHz

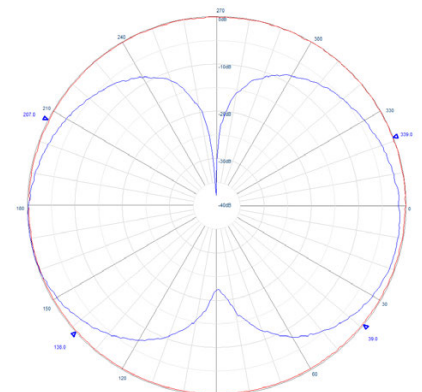

In-stock
Ready to
Ship

The M45T is a highly flexible UHF whip ideally suited for mounting situations where rough treatment and hard knocks can be commonplace.

The M45T whip, requires a cable assembly or base, please order base to suit your requirements, or contact your ZCG sales consultant for more information.

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

Specifications	M45T
Construction	PVC coated galvanised steel wire and chrome ferrule
Colours available	Blue as standard or specify Red PVC outer
Frequency range	UHF 400-520MHz
Tuning	Field trim to required frequency using a SWR meter
VSWR	<1.5:1
Gain - nominal	2.1dBi
Maximum power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Height before tuning	170mm
Weight	32grams
Mount ferrule	5/16"-26 TPI female thread
Mounting hardware order separate	Base no cable: OB-2 Cable base: OB-4.7 Magnetic base: MGB-OB
Mounting position recommended	Mount as high on your vehicle or structure using an appropriate base with 16mm bracket, magnetic base or spring base



Sample radiation pattern



OB-2



OB-4.7



MGB-OB

M35T, M41T & M42T

Type 17-7PH stainless steel whips
UHF 300-520MHz

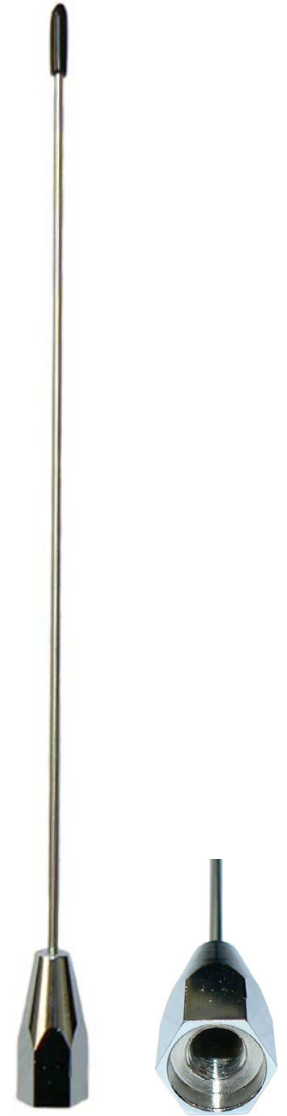


For the UHF 300-520MHz range, the M35T, M41T and M42T whips are the ideal solution, with the flexibility to be vehicle mounted or in a fixed position location.

These whips require a cable assembly or base, please order base to suit your requirements, or contact your ZCG sales consultant for more information.

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

Specifications	M35T	M41T	M42T
Construction	Type 17-7PH tapered stainless steel whip and chrome ferrule		
Frequency range	UHF 300-400MHz	UHF 400-520MHz	
Tuning	Field trim to required frequency using a SWR meter		
Gain - nominal	2.1dBi		
Maximum power	50 Watts		
Polarisation	Vertical		
H Plane	360° omni-directional		
Height before tuning	250mm	206mm	1.07m
Weight	45grams	43grams	80grams
Mount ferrule thread	5/16"-26 TPI female	M6-1.0 female	5/16"-26 TPI female
Mounting hardware order separate	Cable base: OB-4.7 Magnetic base: MGB-OB	Cable base: XB-4.7 Magnetic base: MGB-XB	Cable base: OB-4.7 Magnetic base: MGB-OB
Mounting position recommended	Mount as high on your vehicle or structure using an appropriate base with 16mm bracket, magnetic base or spring base		



OB-4.7 - suits M35T and M42T



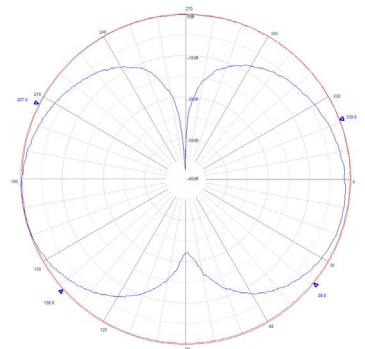
XB-4.7 - suits M41T only



MGB-OB - suits M35T and M42T



MGB-XB XB-4.7 - suits M41T only



Sample radiation pattern

CT400 & CT500

Low profile and rugged
UHF/TETRA 400-530 or 500-600MHz



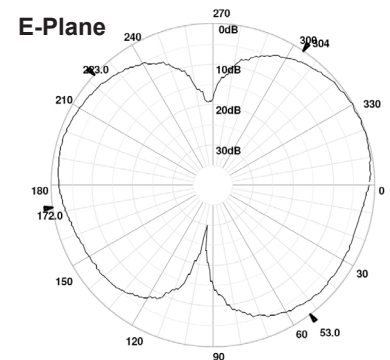
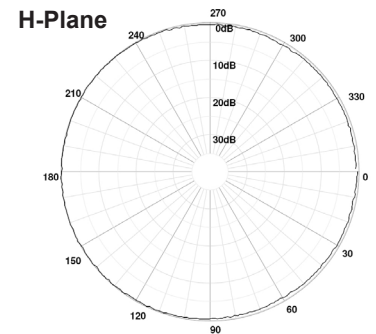
The low profile and rugged CT400 and CT500 UHF antennas are the ideal choice in situations where a traditional whip would be vulnerable to damage or vandalism.

Typical applications:

- Trains/Trams
- Buses
- Forklifts
- Tractors
- Forestry Vehicles
- Military
- Police
- Ambulance
- Fire Brigade
- Emergency Services
- Security Services
- Mining



Specifications	CT400	CT500
Construction	Aluminium, delrin, rubber gasket (CT400 only) and tri-metal plated connector	
Fixed frequency ranges specify one frequency range	<ul style="list-style-type: none"> • 400-420MHz • 420-440MHz • 440-470MHz • 470-500MHz • 500-530MHz 	<ul style="list-style-type: none"> • 500-525MHz • 525-550MHz • 550-575MHz • 575-600MHz
VSWR	<1.5:1 across frequency range selected	
Tuning	Factory	
Gain - nominal	2.1dBi	
Maximum power	100 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	Near 360° omni-directional	
E Plane	Same as normal 1/4 wave whip	
Connector	N-type female fitted in base of antenna	
Dimensions	Length: 210mm , Width: 60mm, Height: 60mm	Length: 200mm , Width: 50mm, Height: 50mm
Weight	530grams	520grams
Mounting hardware supplied	4 x M6 x 20mm stainless steel bolts/nuts/washers	
Minimum ground plane required	1.2 metres square metal surface	



CT400-RD series

H.I.P.S radome enclosed low profile and rugged
UHF/TETRA 400-530MHz & L1 GPS 1575.42MHz



The low profile and rugged CT400-RD series of UHF and L1 GPS antennas are the ideal choice in situations where a traditional whip would be vulnerable to damage or vandalism.



Typical applications:

- Trains/Trams
- Buses
- Forklifts
- Tractors
- Forestry Vehicles
- Military
- Police
- Ambulance
- Fire Brigade
- Emergency Services
- Security Services
- Mining

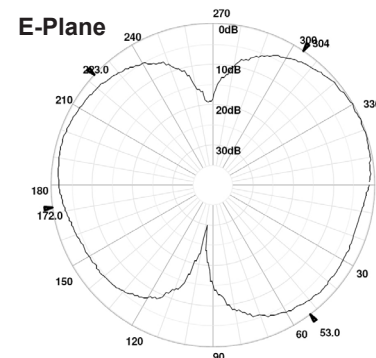
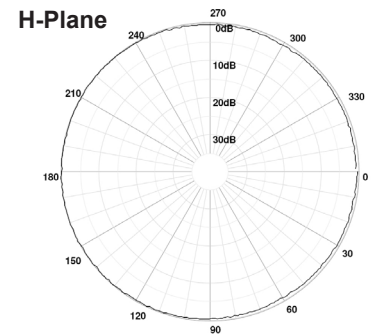


CT400-RD



CT400-RD-GPS

Specifications	CT400-RD	CT400-RD-GPS
Construction	White HIPS (high impact polystyrene) radome, aluminium mount plate and chrome termination. GPS model has internal GPS module with external cable	
Frequency range	UHF 400-530MHz	UHF: 400-530MHz L1 GPS: 1575.42MHz
Bandwidth	UHF: Specify 20MHz GPS: +/- 5MHz around centre frequency	
VSWR	<1.5:1 across frequency range selected	
Tuning	Factory	
Gain - nominal	2.1dBi	
Maximum power	100 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	Near 360° omnidirectional	
E Plane	Same as normal 1/4 wave whip	
Connector	N-type female fitted in base of antenna	
Dimensions	Length: 400mm , Width: 140mm, Height: 90mm	
Weight	530grams	540grams
Mounting hardware supplied	4 x M6 x 20mm stainless steel bolts/nuts/washers	
Minimum ground plane	Ground plane is base plate of antenna	



CT500-RD Series

H.I.P.S radome enclosed low profile and rugged

UHF 500-600MHz & L1 GPS 1575.42MHz



The low profile, rugged radome enclosed CT500-RD series of UHF antennas are the ideal choice in situations where a traditional whip would be vulnerable to damage or vandalism or a low profile required.

Typical applications:

- Trains/Trams
- Buses
- Forklifts
- Tractors
- Forestry Vehicles
- Military
- Police
- Ambulance
- Fire Brigade
- Emergency Services
- Security Services
- Mining



CT500-RD with no external cable



CT500-RD-GPS with external cable

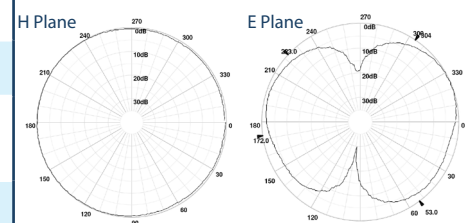


CT500-RD-GPS bottom with N-type female termination



CT500-RD-GPS GPS external cable and SMA male

Specifications	CT500-RD	CT500-RD-GPS
Construction	White H.I.P.S (high impact polystyrene) radome, aluminium mount plate and chrome termination - GPS model has internal GPS antenna with external cable	
Frequency range	UHF 500-600MHz	UHF 500-600MHz L1 GPS: 1575.42MHz
Bandwidth	UHF: Specify any 25MHz L1 GPS: +/- 5MHz around centre frequency	
VSWR	<1.5:1 across specified UHF frequency	
Tuning	Factory	
Gain - nominal	2.1dBi	
Maximum power	100 Watts - UHF	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	Near 360 ° omni-directional	
E Plane	Same as normal 1/4 wave whip	
Connector	N-type female fitted in base of antenna GPS - 5.0m RG174A/U and SMA male - rear exit from radome	
Dimensions	Length: 375mm, Width: 140mm, Height: 90mm	
Weight	480grams	500grams
Mounting hardware	10 x M7 x 20mm bolts required - not supplied 1 x 16mm hole for N-type female insertion	
Minimum ground plane	1.2 metres square metal surface - <u>required</u>	



CT600 & CT700

All-aluminium low profile and rugged
UHF 600-700 or UHF/Upper 4G LTE 757-787MHz



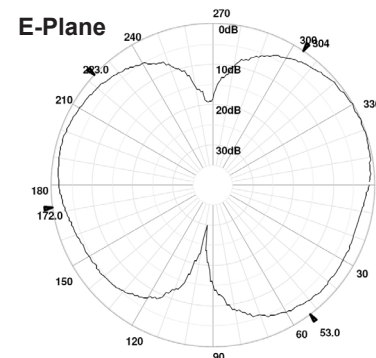
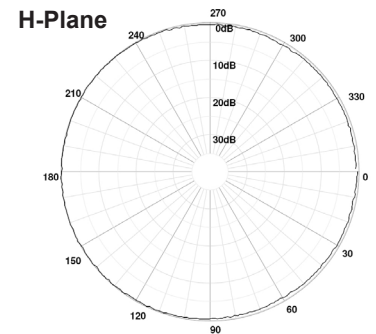
The low profile and rugged CT600 or CT700 UHF antennas are the ideal choice in situations where a traditional whip would be vulnerable to damage or vandalism.

Typical applications:

- Trains/Trams
- Buses
- Forklifts
- Tractors
- Forestry Vehicles
- Military
- Police
- Ambulance
- Fire Brigade
- Emergency Services
- Security Services
- Mining



Specifications	CT600	CT700
Construction	Aluminium, delrin and tri-metal plated connector	
Frequency	UHF 600-700MHz	UHF or Upper 4G LTE 757 - 787MHz
Bandwidth	<ul style="list-style-type: none"> • 600-625MHz • 625-650MHz • 650-675MHz • 675-700MHz 	Full frequency range
CT600 - Specify		
VSWR	<1.5:1	
Tuning	Factory	
Gain - nominal	2.1dBi	
Maximum power	100 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	Near 360 ° omnidirectional	
E Plane	Same as normal 1/4 wave whip	
Connector - fitted	N-type female in base of antenna	
Dimensions	Length: 170mm, Width: 32mm, Height: 32mm	Length: 170mm, Width: 32mm, Height: 32mm
Weight	180grams	170grams
Mounting Hardware	2 x M6 set screws - not supplied	
Mounting position recommended	As high on your vehicle/ structure as possible, on a metal ground plane.	



CT600-RD Series

H.I.PS radome enclosed low profile and rugged
UHF 600-700 & L1 GPS 1575.42MHz



The low profile and rugged CT600-RD series of UHF antennas are the ideal choice in situations where a traditional whip would be vulnerable to damage or vandalism.

Typical applications:

- Trains/Trams
- Buses
- Forklifts
- Tractors
- Forestry Vehicles
- Military
- Police
- Ambulance
- Fire Brigade
- Emergency Services
- Security Services
- Mining



CT600-RD

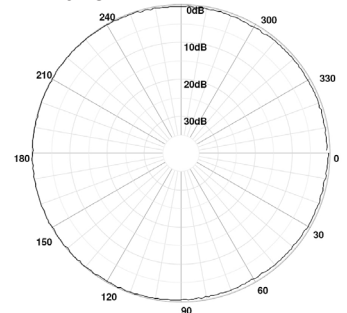


CT600-RD-GPS

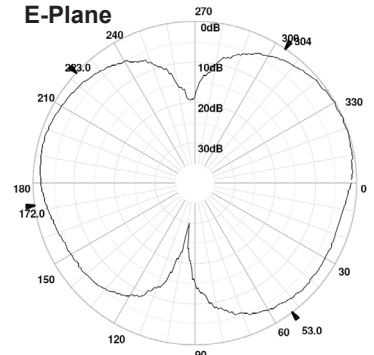


	CT600-RD	CT600-RD
Construction	White H.I.PS (high impact polystyrene) radome, aluminium mount plate, external cable/s and termination/s	
Frequency range	UHF 600-700MHz	UHF 600-700MHz L1 GPS: 1575.42MHz
Bandwidth	UHF: Specify any 25MHz L1 GPS: +/- 5MHz around centre frequency	
VSWR	<1.5:1	
Tuning	Factory	
Gain - nominal	2.1dBi	
Maximum Power	100 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	Near 360 ° omni-directional	
E Plane	Same as normal 1/4 wave whip	
Connector & Cable	UHF: N-type female fitted in base of antenna - no cable GPS: 5.0m RG174A/U with SMA male - rear exit from antenna	
Dimensions	Length: 250mm, Width: 70mm, Height: 90mm	
Weight	200grams	220grams
Mounting hardware supplied	4 x M6 x 20mm stainless steel bolts/nuts/washers	
Minimum ground plane	Ground plane is base plate of antenna	

H-Plane



E-Plane



CT700-RD Series

Radome enclosed low profile and rugged
UHF/Upper 4G LTE 757-787MHz & L1 GPS 1575.42MHz



The low profile and rugged CT700-RD series of UHF antennas are the ideal choice in situations where a traditional whip would be vulnerable to damage or vandalism.

Typical applications:

- Trains/Trams
- Buses
- Forklifts
- Tractors
- Forestry Vehicles
- Military
- Police
- Ambulance
- Fire Brigade
- Emergency Services
- Security Services
- Mining



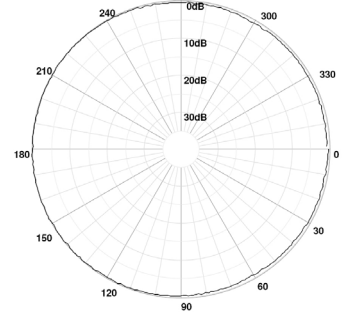
CT700-RD



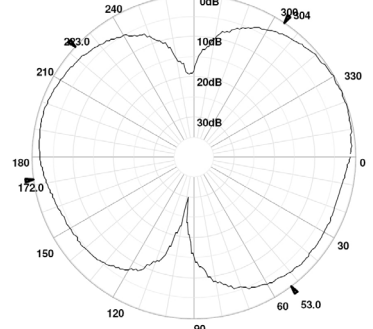
CT700-RD-GPS

	CT700-RD	CT700-RD
Construction	White HIPS (high impact polystyrene) radome, aluminium mount plate and chrome termination. GPS model has internal L1 GPS module with external cable	
Frequency range	UHF/ Upper 4G LTE 757-787MHz	UHF/4G LTE 757-787MHz L1 GPS: 1575.42MHz
Bandwidth	UHF: Full specified frequency GPS: +/- 5MHz around centre frequency	
VSWR	<1.5:1	
Tuning	Factory	
Gain - nominal	2.1dBi	
Maximum power	5 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	Near 360° omni-directional	
E Plane	Same as normal 1/4 wave whip	
Connector & cable	UHF: N-type female fitted in base of antenna - no cable GPS: 5.0m RG174A/U with SMA male - rear exit from antenna	
Dimensions	Length: 230mm, Width: 70mm, Height: 90mm	
Weight	180grams	190grams
Mounting hardware supplied	4 x M6 x 20mm stainless steel bolts/nuts/washers	
Minimum ground plane	Ground plane is base plate of antenna	

H-Plane



E-Plane



ZWGPS

Animal tracking highly flexible stainless steel whip UHF/IoT/ISM 433MHz



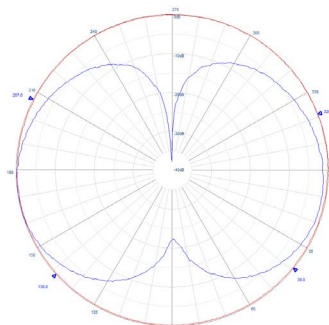
The ZWGPS highly flexible animal tracking whip is specifically designed for mounting using the M5 eyelet located at the base of the whip.

The ZWGPS has been manufactured for use for animal tracking using the UHF, Internet of Things - IoT or Industrial, scientific or medical - ISM low frequency 433MHz.

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



M5 eyelet mounting on base of whip



Sample radiation pattern when whip straight and vertical

SM39 series

Multiband receive only whip

VHF & UHF or AM/FM, DAB+ radio and digital TV



The SM39 is an effective receive whip designed for receive purposes for ambulance, police, airband and UHF commercial services. The SM39-DAB is an AM/FM, DAB+ Radio and digital TV receive whip.

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

Please note: ZCG provide this antenna for legal use only and not for unauthorised listening.

Specifications	SM39	SM39-DAB
Construction	Black heatshrunk fibreglass and chrome ferrule - no base	Black heatshrunk fibreglass, chrome ferrule and black mount base and cable
Frequency range	VHF, AM/FM & UHF 40-950MHz	AM/FM, DAB+ Radio & Digital TV
Gain	Receive only	
Tuning	Factory	
Maximum power	Receive only	
Polarisation	Vertical	
H Plane	360° omni-directional	
Height	850mm	
Weight	155grams	200grams including base
Mount ferrule thread	5/16"-26 TPI female	
Mounting hardware SM39 - order separate	Cable base: OB-4.7 for 4.7m or OB-8.0 for 8m Magnetic base: MGB-OB Accessories: ZD-AM-FM 2-way coaxial splitter	
Mounting hardware SM39-DAB - supplied	Cable base: OB-4.7-75 Accessories: ZD-AM-FM 2-way coaxial splitter	
Mounting position recommended	Mount as high on your vehicle or structure as possible using an appropriate base and 16mm holed bracket, magnetic base or spring base.	



OB-4.7



MGB-OB



ZD-AM-FM 2-way splitter

ZN3-AMFM-10

Detachable medium-duty spring base collinear
AM/FM radio receive 530-1600kHz and 87.5-108MHz


In-stock
Ready to
Ship

Designed for vehicle mounting on a small 4WD, ute, car or on a structure the ZN3-AMFM-10 detachable medium-duty spring base antenna is your ideal solution to improve your AM and FM reception.

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

Specifications	ZN3-AMFM-10B	ZN3-AMFM-10W
Colour	Black radome	White radome
Construction	Fibreglass radome, detachable aluminium ferrule, stainless steel 'barrel' spring and coaxial cable assembly	
Frequency range	AM radio - 530-160kHz and FM radio 87.5-108MHz	
Tuning	Factory	
Gain	Receive only	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable	4.5 metres RG58 low loss - bottom exits from spring base	
Connector	FME female - remove once installed and fit 'Easy fit' solderless car radio connector - not fitted	
Height	1.1 metres	
Weight	925grams	
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or A-6211	
Mounting position recommended	As high on your vehicle as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole	
Installation kit contents	Allen key, solderless connector, PVC cap, 6 cable ties	
Alternative models	Height	Weight
SG1100/ SGL1100 series	750-900mm	900grams
ZN3-AMFM-11 series	1.2 metres	1.42kg
ZN3-AMFM-12 series	2.1 metres	1.6kg



Solderless car radio connector supplied, not fitted

ZN3-AMFM-11

Detachable heavy-duty spring base collinear
AM/FM radio receive 530-1600kHz and 87.5-108MHz


In-stock
Ready to
Ship

Designed for vehicle mounting on a medium to large 4WD, ute, truck or large car the ZN3-AMFM-11 detachable spring base antenna is your ideal solution to improve your AM and FM reception.

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

Specifications	ZN3-AMFM-11B	ZN3-AMFM-11W
Colour	Black radome	White radome
Construction	Fibreglass radome, detachable aluminium ferrule, stainless steel 'barrel' spring and coaxial cable assembly	
Frequency range	AM radio 530-1600kHz and FM radio 87.5-108MHz	
Tuning	Factory	
Gain	Receive only	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable	4.5 metres RG58 low loss - bottom exits from spring base	
Connector	FME female - remove once installed and fit 'Easy fit' solderless car radio connector - not fitted	
Height	1.2 metres	
Weight	1.42kg	
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or A-6211	
Mounting position recommended	As high on your vehicle as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole	
Installation kit contents	Allen key, solderless connector, PVC cap, 8 cable ties	

Alternative models	Height	Weight
SG1100/ SGL1100 series	750-900mm	900grams
ZN3-AMFM-10 series	1.1 metres	925grams
ZN3-AMFM-12 series	2.1 metres	1.6kg



Solderless car radio connector supplied, not fitted

ZN3-AMFM-12

Detachable super heavy-duty spring base collinear
AM/FM radio receive 530-1600kHz and 87.5-108MHz



In-stock
Ready to
Ship

Designed for vehicle mounting on a large 4WD, ute or truck, the ZN3-AMFM-12 detachable spring base antenna is your ideal solution to improve your AM and FM reception.

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

Specifications	ZN3-AMFM-12B	ZN3-AMFM-12W
Colour	Black fibreglass radome	White fibreglass radome
Construction	Fibreglass radome, detachable aluminium ferrule, stainless steel 'barrel' spring and coaxial cable assembly	
Frequency range	AM radio 530-1600kHz and FM radio 87.5-108MHz	
Tuning	Factory	
Gain	Receive only	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable	4.5 metres RG58 low loss - bottom exits from spring base	
Connector	FME female - remove once installed and fit 'Easy fit' solderless car radio connector - not fitted	
Height	2.1 metres	
Weight	1.6kg	
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Bracket Mounting: GM1, GM2, GM6 or A-6211	
Mounting position recommended	As high on your vehicle as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole	
Installation kit contents	Allen key, solderless connector, PVC cap, 8 cable ties	

Alternative models	Height	Weight
SG1100/ SGL1100 series	750-900mm	900grams
ZN3-AMFM-10 series	1.1 metres	925grams
ZN3-AMFM-11 series	1.2 metres	1.42kg



Solderless car radio connector supplied, not fitted

ZN3-AMFM-1962

Detachable heavy-duty spring base whip

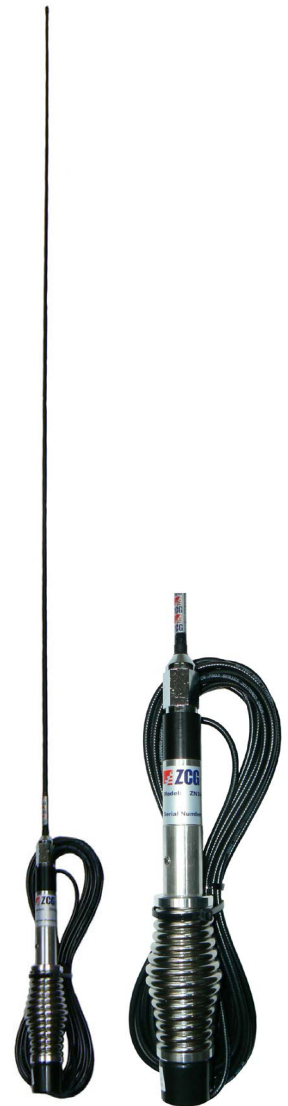
AM/FM radio receive 530-1600kHz and 87.5-108MHz



To improve AM and FM radio reception whilst travelling in a lower profile than a radome collinear, the ZN3-AMFM-1962 series are your ideal solution, offering superb performance within a light-weight reduced obstruction design, ideal for any vehicle, truck, construction vehicle or fixed location mounting.

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

Specifications	ZN3-AMFM-1962	ZN3-AMFM-1962-HD
Construction	Fibreglass whip, detachable aluminium mount, barrel spring and cable assembly	Heavy duty fibreglass whip, detachable aluminium mount, barrel spring and cable assembly
Frequency range	AM radio - 530-1600kHz and FM radio 87.5-108MHz	
Tuning	Factory	
Gain	Receive only	
Impedance	50 Ohms	
Polarisation	Vertical	
Cable	4.5 metres RG58 low loss - bottom exits from spring base	
Connector	FME female - remove once installed and fit 'Easy fit' solderless car radio connector - not fitted	
H Plane	360° omni-directional	
Height	1.83 metres	2.1 metres
Weight	500grams	600grams
Reaplament whips	CR66-TPM	CR66-HD-TPM
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or A-6211	
Mounting position recommended	As high on your vehicle or structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole	



ZN3-AMFM-1962-HD



Solderless car radio connector supplied, not fitted

SGL1100 series

Light-duty parallel spring base collinear

AM/FM radio receive 530-1600kHz and 87.5-108MHz



Perfect for light-duty vehicle mounting the SGL1100 AM/FM antenna will improve your AM and FM radio reception when travelling or in a fixed location.

The SGL1100 series is identical in appearance to the SGLDB mobile phone series and SGL477 UHF CB series.

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

Specifications	SGL1100-B	SGL1100-W
Colour	Black	White
Construction	Fibreglass radome, aluminium ferrule, light-duty stainless steel parallel spring base and cable assembly	
Frequency range	AM radio 530-1600kHz and FM radio 87.5-108MHz	
VSWR	<1.5:1	
Tuning	Factory	
Gain	Receive only	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable	5 metres RG58 stranded - bottom exit from base	
Connector	'Easy fit' solderless car radio connector - not fitted	
Height	750mm	
Weight	650grams	
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or ATLM series	
Mounting position recommended	As high on your vehicle as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole	



Solderless car radio connector supplied not fitted



BBM-SS



MRM-SS



ATLM-B



BBKB-B

SGL1100-BLKR

All-black light-duty parallel spring base collinear
AM/FM radio receive 530-1600kHz and 87.5-108MHz


In-stock
Ready to
Ship

Perfect for small to medium vehicle mounting the SGL1100-BLKR light-duty AM/FM antenna will improve your AM and FM radio reception. The all black colour configuration, assists to keep with the aesthetics of your vehicle and or your vehicles bullbar.

The SGL1100-BLKR series is identical in appearance to the SGLDB mobile phone improvement and SGL477-BLKR UHF CB models.

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

Specifications	SGL1100-BLKR
Construction	Black fibreglass radome, black aluminium ferrule, black stainless steel parallel spring and cable assembly
Frequency range	AM radio 530-1600kHz and FM radio 87.5-108MHz
VSWR	<1.5:1
Tuning	Factory
Gain	Receive only
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	5 metres RG58 stranded - bottom exit from base
Connector	'Easy fit' solderless car radio connector supplied, not fitted
Height	750mm
Weight	650grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBM-XL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or ATLM series
Mounting position recommended	As high on your vehicle as possible using a minimum 16mm hole or appropriate bracket with 16mm hole



BBM-SS



MRM-SS



ATLM-B



BBKB-B

SG1100 series

Medium-duty 'barrel' spring base collinear

AM/FM radio receive 530-1600kHz and 87.5-108MHz



Perfect for medium-duty vehicle mounting the SG1100 series will improve your AM and FM radio reception when travelling or in a fixed location.

The SG1100 series are identical in appearance to the SGDB mobile phone series and SG477 UHF CB series.

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

Specifications	SG1100-B	SG1100-W
Colour	Black	White
Construction	Fibreglass radome, aluminium ferrule, medium-duty stainless steel 'barrel' spring base and cable assembly	
Frequency range	AM radio 530-1600kHz and FM radio 87.5-108MHz	
Tuning	Factory	
Gain	Receive only	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable	5 metres RG58 stranded - side exit from ferrule	
Connector	'Easy fit' solderless car radio connector - not fitted	
Height	900mm	
Weight	900grams	
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or A-6211	
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole	



Solderless car radio connector, supplied not fitted



BBM-SS



GM6



MRM-SS



BBKB-B

SG1100-BLKR

All-black medium-duty spring base collinear
AM/FM radio receive 530-1600kHz and 87.5-108MHz


In-stock
Ready to
Ship

Perfect for medium-duty vehicle or fixed position mounting the SG1100-BLKR series will improve your AM and FM radio reception. The all-black colour configuration, assists with keeping the aesthetics of your vehicle and/or your vehicles bullbar.

The SG1100-BLKR series are identical in appearance to the SGDB-BLKR mobile phone and SG477-BLKR UHF CB radio range.

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

Specifications	SG1100-BLKR
Construction	Black fibreglass radome, black aluminium ferrule, black stainless steel 'barrel' spring and cable assembly
Frequency range	AM radio 530-1600kHz and FM radio 87.5-108MHz
Tuning	Factory
Gain	Receive only
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	5 metres RG58 stranded - side exit from ferrule
Connector	'Easy fit' solderless car radio connector - not fitted
Height	900mm
Weight	900grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole



AM-FMRX-RDW

Super flexible helical whip and 4.7m cable base
AM/FM radio receive 530-1600kHz and 87.5-108MHz



The AM-FMRX-RDW is a super flexible, near indestructible helical wound whip suitable for AM/FM radio receive either vehicle or fixed position mounted.

This helical design suits requirements where reduced height and a flexible construction is essential, likely in situations where damage may occur or where space requirements are at a premium.

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

Specifications	AM-FMRX-RDW
Construction	Black heatshrunk helical whip, OB base and cable assembly
Frequency range	AM radio: 530-1600kHz FM radio: 87.5-108MHz
Bandwidth	Full frequency ranges
Tuning	Factory
Gain	Receive only
Impedance - nominal	75 Ohms
Connector	Solderless radio connector supplied, not fitted
Cable	4.7 metres RG59 - bottom exit from base
Polarisation	Vertical
Height	360mm - including base
Weight	320grams - including base
Mounting	Dis-assemble the OB base brass nut, O-ring and plastic cover and feed the base through a minimum 17mm hole, and re-assemble the plastic cover, O-ring and nut ensuring nut is tight. Install whip onto base
Mounting position recommended	Mount as high on your device, vehicle or structure as possible, to ensure a true omni-directional receive capability.



Male solderless car radio connector supplied not fitted

NEW

ZW312B AM/FM series

5/16"-26 TPI or 3/8"-24TPI thread

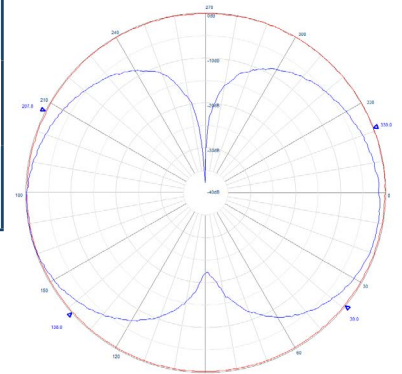
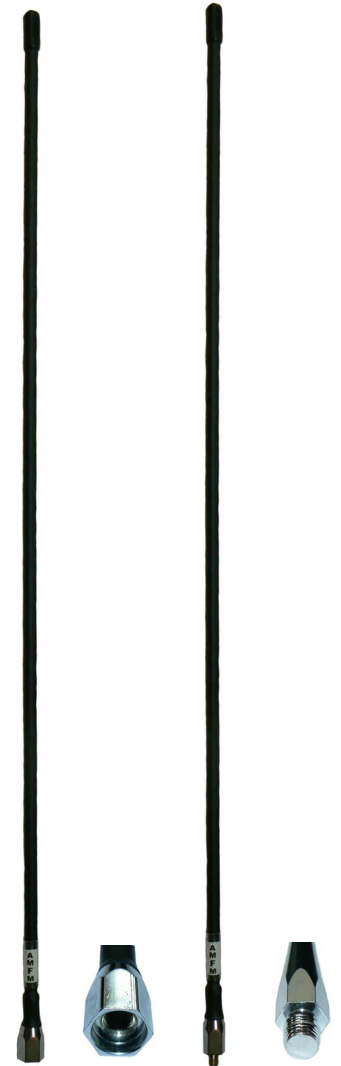
AM/FM radio receive only



The ZW312B black whips are an effective receive whip designed for receive purposes for both AM and FM Radio. The ZW312B-BLK comes standard with a female 5/16"-26 TPI thread in the mount ferrule. The ZW312B is the shortest AM/FM receive fibreglass whip in ZCG's range of AM/FM whips.

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

Specifications	ZW312B-BLK	ZW312B	ZW312B-EUR
Colour	Black	White	Black
Construction	Heatshrink braided fibreglass and chrome mount ferrule		
Frequency range	AM radio 530-1600kHz and FM radio 87.5-108MHz		
Gain	Receive only		
Tuning	Factory		
Maximum power	Receive only		
Polarisation	Vertical		
H Plane	360° omni-directional		
Height	640mm		
Weight	60grams		
Mount ferrule thread	5/16"-26 TPI female thread		European 3/8" UNF-24TPI male thread
Mounting hardware order separate	Base: OB base Cable base: CRBL with radio connector Magnetic base: MGB-OB and specify radio connector		Consult ZCG - requires a female 3/8" UNF - 24 TPI base
Mounting position recommended	Mount as high on your vehicle or structure as possible using an appropriate base, bracket or magnetic base.		
Alternate models with base incl.	ZM312B-BK - all black whip and base	ZM312B - all white whip and base	-



Sample radiation pattern



OB base - no cable or connector



CRBL



MGB-OB

order radio connector separate

NEW

AMFM INTER

6mm international female threaded receive whip
AM/FM radio receive 530-1600kHz and 87.5-108MHz


In-stock
Ready to
Ship

The AMFM INTER is an effective receive whip designed for receive purposes for both AM and FM Radio. The AMFM INTER comes standard a female 6mm international thread in the mount ferrule.

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

Specifications	AMFM INTER
Construction	Black heatshrunk fibreglass and black powdercoated mount ferrule
Frequency range	AM radio 530-1600kHz and FM radio 87.5-108MHz
Gain	Receive only
Tuning	Factory
Maximum power	Receive only
Polarisation	Vertical
H Plane	360° omni-directional
Height	1.0m
Weight	86grams
Mount ferrule thread	6mm international female thread
Mounting hardware order separate	Base: XB Base Cable base: XB-4.7 no connector or XB-4.7-TNC Magnetic base: MGB-XB
Mounting position recommended	Mount as high on your vehicle or structure as possible using an appropriate base and 16mm holed bracket or magnetic base.



XB Base



XB-4.7



MGB-XB



6mm female thread

CR whip series

Medium to heavy-duty whips with cable bases

AM/FM radio receive 530-1600kHz and 87.5-108MHz


In-stock
Ready to
Ship

To improve AM and FM radio reception whilst travelling or in a fixed location, the CR range of fibreglass whips offer superb performance within a light weight yet robust design. Ideal for mounting in various positions on a vehicle, truck mirror or fixed location.

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

Specifications	CR36	CR66	CR66-HD
Construction	Black heatshrunk fibreglass whip, chrome ferrule, OB-2 base and cable		Heavy-duty whip, chrome ferrule, OB-2 base and cable
Frequency range	AM Radio 530-1600kHz and FM Radio 87.5-108MHz		
Tuning	Factory		
Cable	4.0 metres RG58 MIL-SPEC - bottom exits from OB-2 base		
Connector	Male car radio connector fitted to cable		
Gain	Receive only		
Impedance	50 Ohms		
Polarisation	Vertical		
H Plane	360° omni-directional		
Height	1.0 metre	1.5 metres	1.83 metres
Weight	310grams	350grams	500grams
Cable assembly	CRBL - 4.7m cable with male car radio connector fitted		
Whip part number	CR36-TPM	CR66-TPM	CR66-HD-TPM
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM4, GM6		
Mounting position recommended	As high on your vehicle or structure as possible using a minimum 16mm hole or appropriate bracket with a 16mm hole		



BBM-SS



GM4



GM6



MRM-SS



BBKB-B



CT90

Low profile and rugged
FM radio receive 87.5-108MHz



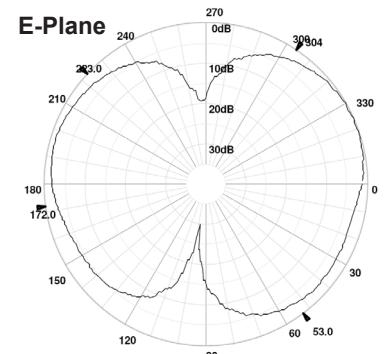
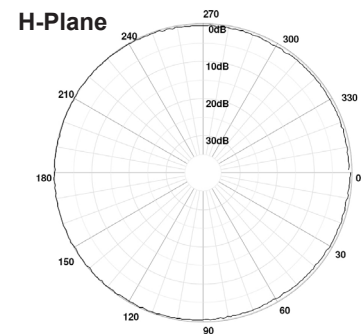
The low profile and rugged CT90, FM radio receive vehicle mount antenna is the ideal antenna choice for situations where a traditional whip would be vulnerable to damage or vandalism.

Typical applications suited for the CT90:

- Trains/Trams
- Buses
- Forklifts
- Tractors
- Forestry vehicles
- Logging trucks
- Police
- Ambulance
- Fire brigade
- S.E.S. vehicles
- Security services
- Mining vehicles



Specifications	CT90
Construction	Aluminium, delrin, rubber gasket and chrome terminations
Frequency range	FM Radio 87.5-108MHz
Bandwidth	Full frequency range
Tuning	Factory
VSWR	<1.5:1 at 98MHz & <2:1 across rest of band
Gain	Receive only
Impedance	50 Ohms
Polarisation	Vertical
H Plane	Near 360° omni-directional
E Plane	Same as normal 1/4 wave whip
Connector	N-type female in base of antenna
Dimensions	Length: 865mm, Width 80mm, Height: 100mm
Weight	1.6kg
Mounting hardware supplied	6 x M6 x 20mm stainless steel set screws/washers & nuts
Minimum ground plane required	1.2m x 1.2m metal surface



ZD-AM-FM

2-way band coaxial cable splitter DAB radio and AM/FM Radio


In-stock
Ready to
Ship

The ZD-AM-FM 2-way DAB and AM/FM Radio splitter is designed for 530-1600kHz, 87.5-108MHz and 174-230MHz. The ZD-AM-FM allows AM/FM radios to be connected to an already installed DAB Radio whip/antenna, such as the SM39-DAB and also be used as a AM/FM receive antenna as well.

For best AM/FM reception, a stand alone AM/FM antenna is recommended, such as the ZW312B-BLK/CR36/CR66 or SG1100 range.

Antennas, adaptors and installation accessories are all available separately.



Specifications	ZD-AM-FM
Construction	Enclosed amplifier, splitter output cable arm, input cable arm and 10-15VDC cable with internal fuse
Compatible frequencies	AM Radio: 530-1600kHz FM Radio: 87.5-108MHz DAB Radio: 174-230MHz
Maximum power	Receive only
Impedance	50 Ohms
Antenna connection	Female car radio with shroud
Radio/Device connection	Male car radio, SMA male and 10-15VDC cable with fuse
Weight	200grams
Cable arm lengths	Antenna input cable: 140mm Output splitter cable: 240mm 10-15VDC cable: 230mm
Installation requirements recommended	Ensure all terminations securely fitted and any exposed terminations waterproofing applied.



Termination for antenna input Male car radio



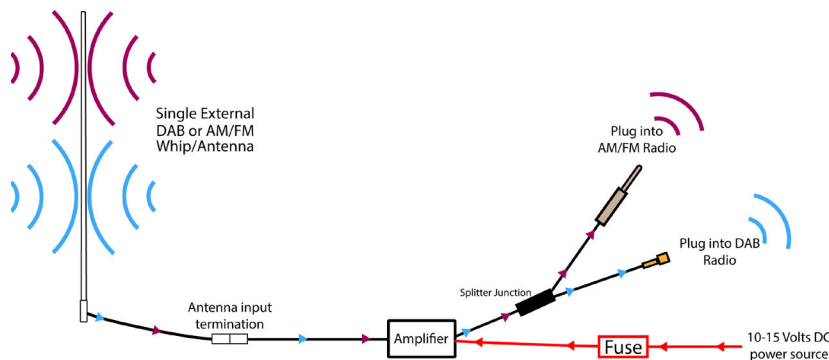
Splitter terminations SMA male and Car Radio male



Enclosed amplifier box



10-15VDC power lead with enclosed fuse



ZSPL-2

2-way band coaxial cable splitter 27MHz, AM/FM, VHF or UHF


In-stock
Ready to
Ship

The ZSPL-2 2-way marine splitter is designed for 27MHz, AM/FM, VHF or UHF. The ZSPL-2 allows AM/FM radios to be connected to an already installed marine 27MHz, VHF or UHF antenna, such as the ZM21 or ZM24 marine range and be used as a AM/FM receive antenna as well.

For best AM/FM reception, a stand alone AM/FM antenna is recommended, such as the ZW312B-BLK/CR36/CR66 or SG1100.

Vehicle mount antennas, water-proofing, adaptors and installation accessories are all available seperately.

Specifications	ZSPL-2
Construction	RG58 white low noise coaxial cable, white moulded splitter junction and external terminations
Compatible frequencies	27MHz / VHF/ AMFM and UHF
Maximum power	100 Watts
Impedance	50 Ohms
Antenna connection	UHF female
Radio/Device connection	UHF male, PL259 and AM/FM male connector
Weight	200 grams
Cable arm lengths	1.3 metres
Mounting requirements (recommended)	For all terminations ensure a layer of water-proofing amalgamation and PVC layer has been applied.



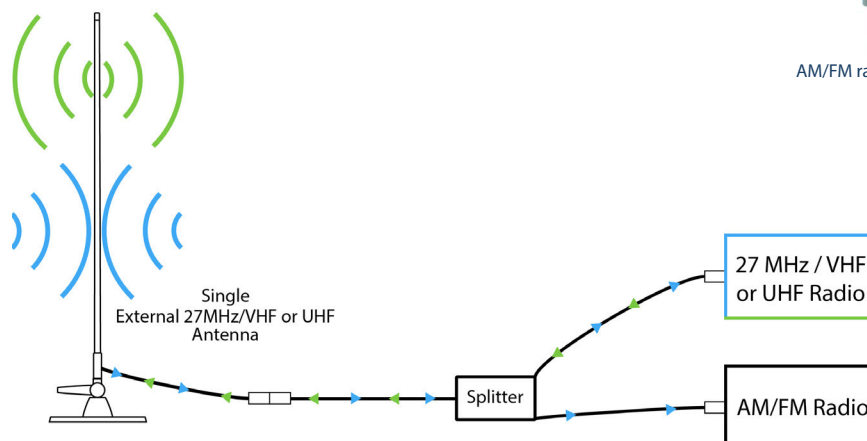
Termination for antenna input/output - UHF female



AM/FM radio input



27MHz / VHF or UHF radio input - UHF male



Z1227-LNA & Z1575-LNA

Vehicle Mount L band GPS collinear
L2 1.2276GHz or L1 1.575GHz GPS



The Z1227 and Z1575 are ground independent GPS collinears, suitable for use at the L2 GPS 1227.6MHz or L1 GPS 1575.42MHz frequency.

Both models are ideal for GPS tracking applications on vehicles or used as a fixed position antenna back at your office or home.

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



Specifications	Z1227-LNA	Z1575-LNA
Construction	White fibreglass radome, white nylon ferrule, external cable assembly and right-angle gold plated termination	
Internal low noise amplifier	Yes	
Frequency range	L2 GPS 1227.6MHz	L1 GPS 1575.42MHz
Bandwidth	20MHz around centre frequency	
VSWR	<1.5:1	
Tuning	Factory	
Gain	8dBi	
Maximum power	100 Watts	
Impedance - nominal	50 Ohms	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable	3.0m RG316, side exit from ferrule	2.0m RG142, side exit from ferrule
Connector	Gold plated Right-angle SMA male fitted as standard or specify requirements	
Height	1.1m	1.02m
Weight	700grams	600grams
Mounting hardware order separate	Any minimum 13mm hole or a suitable mounting bracket with minimum 13mm hole	
Mounting position recommended	Mount as high on your vehicle or structure as possible ensuring clear projection to sky and no obstructions.	



Right-angle SMA male connector fitted as standard

ZAU-3C2M

Low profile thread mount dualband antenna
Telstra 4G/3G 825-890MHz and L1 GPS 1575.42MHz

In-stock
Ready to
Ship

For both Automatic Vehicle Location (A.V.L.) systems and mobile phone improvement, the ZAU-3C2M series deliver a highly sensitive multiband solution for fleet management.

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



Specifications	GPS	Mobile Phone
Construction	Black plastic radome, chrome mounting base	
Frequency range	L1 GPS 1575.42MHz	Telstra 4G/3G 825-890MHz
Bandwidth	10MHz	Full frequency range
Gain	27 dB typical	1.0 dBi
Polarisation	Right-hand circular	-
Noise figure	1.8 maximum	-
Attenuation	20 dB min. @ FO ± 50MHz	-
VSWR	<1.5:1 full frequency range	
Impedance	50 Ohms	
Power supply	Power consumption 2.5 - 5.5 Volts DC/ 13 mA	Power handling capacity 10 Watts
Connector - fitted	SMA male	FME female
Cable	2 x 2.0m RG174 - bottom exit from thread mount	
Dimensions	64.5mm diameter x 14mm high	
Operating temperature	-40°C to +85°C	
Storage temperature	-45°C to +100°C	
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or ATLM series	
Mounting position recommended	As high on your vehicle as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole	



FME female and SMA male fitted as standard



BBM-SS

BBKB-B

MRM-SS

GM2

ATLM-B

ZAU-9-LTE

Upgraded

All-in-one low profile 'dome' antenna
4G LTE, 4G/3G, L1 GPS/GLONASS and WiFi/WLAN

In-stock
Ready to
Ship

The ZAU-9-LTE low profile antenna is suitable for 4G LTE, GPS and WiFi applications such as vehicle tracking and data acquisition.

The radome enclosed internals ensures a water-proof seal for a long reliable service life in the harshest of environments.

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



SMA male fitted with identification bands

Specifications	L1 GPS/GLONASS	4G LTE, 4G & 3G	WLAN/WIFI
Construction	Black ABS radome, chrome mounting base and rubber gasket		
Frequency range	1575.42MHz - L1 band 1602MHz - GLONASS	704-960MHz 1710-2690MHz	2.4-2.5GHz 5.1-5.85GHz
Bandwidth	43MHz at S11 <-10dB	Full frequency range	
VSWR	<1.5:1	<2.4:1	<1.7:1
Gain	27dB at 3V	2.1dBi - 704-960MHz 2.1dBi - 1710-2690MHz	3.9dBi - 2.4-2.5GHz 3.3dBi - 5.1-5.85GHz
Impedance - nominal	50 Ohms		
Attenuation	20dB min. at FO ± 50MHz	-	-
Noise Figure	1.2 maximum	-	-
Power supply	3-5.5Volts DC Consumption 6.1-13mA	-	10 Watts power handling
Polarisation	Right-hand circular	Vertical - linear	
Height	Diameter: 85mm, Height: 41.5mm		
Connector	SMA male as standard or specify requirements		
Cable	10 metres RG174	10 metres RG58	
Operating temp.	-40°C to +80°C		
Storage temp.	-40°C to +85°C		
Mounting position recommended	Mount as high on your vehicle or vessel as possible using the attached mounting hardware and rubber gasket.		

ZAW-9-LTE

Upgraded

Low profile radome enclosed antenna - M.I.M.O. capable
L1 GPS/GLONASS, 4G LTE/4G/3G and WiFi/WLAN



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

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

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

ZAU-GPSWL-5

All-in-one 'Shark-fin' low profile antenna
4G LTE, 4G, 3G, L1 GPS and WiFi/WLAN



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



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



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

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



Example of connectors fitted to each cable: GPS - QMA, LTE - SMA, WiFi - QMA
Please specify requirements when ordering.

GCFRA and GCT

Mobile phone/wireless data/WiFi and L1 GPS



Page 1 of 2

The GCT low profile all-in-one antenna will improve reception for all mobile phone/wireless data networks and GPS.

The GCFRA low profile all-in-one antenna will improve mobile phone/ wireless data, GPS and WiFi reception.

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



GCFRA
Mobile Phone, GPS & WiFi

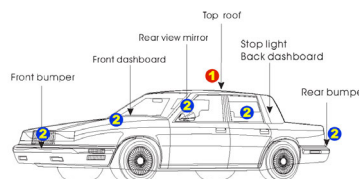
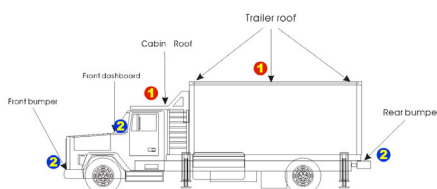
Specifications	GCFRA	GCT
Construction	Cream ABS polycarbonate radome	
Mobile phone coverage	Telstra, Optus & Vodafone 4G and 3G 825-960MHz & 1710-2190MHz	
GPS frequency	L1 GPS 1575.42MHz	
WiFi ability	Yes 2.4GHz	No
Tuning	Factory	
Impedance	50 Ohms	
H Plane	360° omni-directional	
Weight	280grams	
Dimensions	Diameter: 100mm, Height: 39mm	
Cable	3 x 5 metre RG174/U	1 x 5 metre RG174/U 1 x 5 metre RG58/AU
Connector - fitted	3 x SMA male	2 x SMA male
Mounting requirements	Any bracket or flat surface with 20mm hole using cream ABS nut and attached rubber gasket supplied	
Mounting position (recommended)	As high on your vehicle/structure as possible using a minimum 20mm hole or bracket with 20mm hole.	



GCT
Mobile Phone & GPS

Detailed specifications on next page...

1 indicates an ideal location for best omnidirectional performance



GCFRA and GCT

Mobile phone/wireless data/WiFi and GPS

Page 2 of 2



Mobile Phone Antenna		GCFRA and GCT			
Frequency coverage		Telstra, Optus & Vodafone 4G and 3G 825-960MHz and 1710-2170MHz			
Tuning and VSWR		Factory tuned to <2:1 across entire frequency			
Impedance		50 Ohms			
Pattern		360° omni-directional			
Maximum power		25 Watts			
GPS Active Patch Antenna		GCFRA and GCT			
Frequency coverage		L1 GPS 1575.42MHz ± 3MHz			
Tuning and VSWR		Factory tuned to 1.5:1 minimum			
Bandwidth		20MHz minimum at -10dB			
Axial ratio		3 dB typical			
Impedance		50 Ohms			
Peak gain		4 dBic minimum - on a 7cm x 7cm ground plane			
Polarisation		Right-hand circular			
Amp. Module	Amp. Gain	Noise Figure	Output VSWR	DC Voltage	DC Current
Type A. Type B.	27 dB Typical	1.4 dB typical 1.4 db typical	2.0 maximum	3.0 V - 5.5 V 2.7 V - 6.0 V	22 ± 5 mA 8.5 ± 4.5 mA
WiFi Antenna		GCFRA - GCT not supported			
Frequency coverage		WiFi/WLAN 2.4-2.4835GHz			
Tuning and VSWR		Factory tuned to <2:1 across specified frequency			
Impedance		50 Ohms			
Pattern		360° omni-directional			
Maximum power		25 Watts			

ZGPS Series

L1 GPS with low noise amplifier

Page 1 of 2



The ZGPS series of patch antennas are compact and sensitive with a low noise amplifier to receive very weak signals.



Key Features
Low profile and compact
High sensitivity, high gain
Low noise figure
Water resistant
Magnetic/Adhesive mounting
Excellent temperature stability

Typical Applications
Vehicle GPS
Bluetooth receiver
Vehicle tracking navigation system
AVL/ Fleet management system
External antenna for handheld GPS
External antenna for PDA navigator



ZGPS-FA & ZGPS-FM

Specifications	ZGPS-F	ZGPS-S	ZGPS-S
Construction	Black polycarbonate cover, rubber gasket		
Connector - fitted	Fakra blue type D	SMA male type A	SMC male type C
Frequency range	L1 GPS 1575.42MHz		
VSWR	2.0 maximum		
Gain	At 90° : 30 ± 4.5 dBi - Cable Loss (-1.2 dB/m)		
Impedance - output	50 Ohms	50 Ohms	50 Ohms
Dimensions	Length: 46mm, Width: 38mm 12.5mm high		
Weight	50grams - excluding cable and connector		
Cable	5 metres RG174A /U - alternative lengths available		
Pulling strength	6kg for 5 seconds with strain relief on connector		
Order code - magnetic	ZGPS-FM	ZGPS-SAM	ZGPS-SCM
Order code - adhesive	ZGPS-FA	ZGPS-SAA	ZGPS-SCA
Mounting position (recommended)	Mount as high on your vehicle or structure as possible, either onto a metallic magnetic surface (magnetic base) or any flat horizontal surface (adhesive base).		



ZGPS-SAA & ZGPS-SAM



ZGPS-SCA & ZGPS-SCM

[For more details please see following sheet](#)

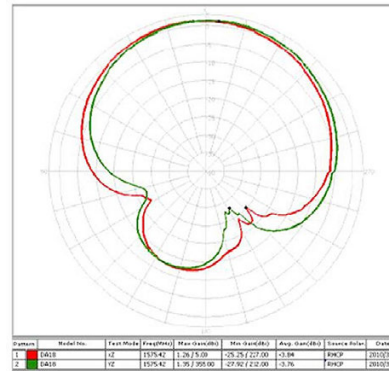
ZGPS Series

GPS with low noise amplifier

Page 2 of 2



Sample radiation patterns



XY-Plane

Specifications	Antenna Element
Polarisation	Right-hand circular
Absolute gain at zenith	3 dBic typical
Gain	90° : 2.0 dBi minimum 20° : -5.0 dBi minimum Mounted on a 60mm x 60mm square ground plane
Axial ratio	90° : 3.0 dBi minimum Mounted on a 60mm x 60mm square ground plane
Low Noise Amplifier	
Gain	28 dB ± 4.5 dB
Bandwidth	10MHz minimum @ S11 ≤ -10dB
Noise figures	1.5 dB typical
Supply voltage	2.5 - 5.5 Volts DC
Current consumption	2.7 - 2.9 Volts : 10.6 mA ± 1 mA 5 Volts : 11.5 mA ± 1 mA
Output impedance	50 Ohms
Output VSWR	2.0 maximum
Environmental Conditions	
Operating temperature	-40°C to +85°C
Storage temperature	-40°C to +85°C
Relative humidity	95% non-condensing

CT150

Radome enclosed low profile antenna

VHF communications 150MHz & L1 GPS 1575.42MHz



The low profile and rugged CT150, satellite communications and GPS antenna is the ideal antenna choice for situations where a traditional whip would be vulnerable to damage or vandalism.



Typical applications suited for the CT150:

- Trains
- Buses
- Forklifts
- Tractors
- Forestry Vehicles
- Logging Trucks
- Police
- Ambulance
- Fire Brigade
- S.E.S vehicles
- Security Services
- Mining Vehicles



Specifications	CT150	
Construction	White ABS radome, aluminium mount plate and 2 cable assemblies (black available)	
Tuning	Factory	
Connectors	VHF Communications: SMA male L1 GPS: SMA male	
Cables	VHF Communications : 4.5 metres MIL-SPEC RG58 Low Loss L1 GPS: 5 metres RG174A/U	
Dimensions	Length: 610mm; Width: 125mm; Height: 85mm	
Mounting hardware	4 x M6 x 20mm set screws - supplied	
Specifications	VHF Communications	
Frequency range	Transmit: 148-150.5MHz	Receive: 137-138MHz
Bandwidth	Full frequency range	
Gain	0dBd	
VSWR	<2:1	
Impedance	50 Ohms	
Polarisation	Vertical	
Specifications	GPS	
Frequency range	L1 GPS 1575.42MHz	
Operating voltage	2.2-5.4 VDC	
Gain	32dBi	



Vehicle mount CB radio Contents page

27MHz CB radio

- ZGI40	27MHz, 2.1dBi, 1.6 metres
- ZGI40-NZ	26MHz, 2.1dBi, 1.6 metres
- ZW312H-BLK	27MHz, fibreglass whip, 2.1dBi, 640mm - available in white
- ZN5-27-12	27MHz, 2.1dBi, 1.2 metres
- ZN5 Series Whips	27MHz, fibreglass whips, 2.1dBi, 630mm - 1.47m, black or white models available

477MHz UHF CB radio

- ZN3-77-04	477MHz, 2.1dBi, 400mm, "Quick-Fit", light-duty
- ZN3-77-10	477MHz, 6.6dBi, Detachable, 1.1 metres, medium-duty
- ZN3-77-11	477MHz, 6.6dBi, Detachable, 1.2 metres, heavy-duty
- ZN3-77-12	477MHz, 8.1dBi, Detachable, 2.1 metres, super heavy-duty
- ZN4-77-07S	477MHz, 6.6dBi, 900mm, Stainless Whip, medium-duty parallel spring
- ZN4-77-07	477MHz, 6.6dBi, 950mm, Stainless Whip, heavy-duty barrel spring
- ZN4-77-06S	477MHz, 6.6dBi, 900mm, Fibreglass Whip, medium-duty parallel spring
- ZN4-77-06	477MHz, 6.6dBi, 950mm, Fibreglass Whip, heavy-duty barrel spring
- ZN4-77-06S-TCP	477MHz, 2.1dBi or 6.6dBi, 403mm or 900mm, medium-duty parallel spring
- ZN4-77-06-TCP	477MHz, 2.1dBi or 6.6dBi, 403mm or 900mm, heavy-duty barrel spring
- ZN4-77-09T	477MHz, 6.6dBi, 800mm, fibreglass whip, <u>NO SPRING</u>
- SGL477	477MHz, 2.1dBi, 750mm, medium-duty parallel spring, Lightweight Design
- SGL477-BLKR	477MHz, 2.1dBi, 750mm, medium-duty parallel spring, Lightweight design - <u>ALL BLACK</u>
- SG477	477MHz, 2.1dBi, 900mm, heavy-duty 'barrel' spring
- SG477-BLKR	477MHz, 2.1dBi, 900mm, heavy-duty 'barrel' spring - <u>ALL BLACK</u>
- GID480-QF	477MHz, 6.6dBi, 820mm, "Quick-Fit"
- GID-M480 & GID-MB480	477MHz, 6.1dBi, 960mm, no spring base
- GRN Series	477MHz, 4dBi, 330mm
- GRMWFC477	470-490MHz, 2.1dBi
- ZN1-77-02	477MHz flexible whip, 2.1dBi, 400mm - light-duty
- ZN1 Series Whips	477MHz, 2.1dBi - 6.6dBi, 143mm, black or white - 640mm

On-glass 477MHz UHF CB

- OZU Series	390-520MHz, 2.1dBi - 5.1 dBi, 230mm - 560mm
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Antenna mounting brackets and springs

Antenna installation accessories

How to order

Terms & conditions of sale

Contact us

ZGI40 Series

Australian or New Zealand Ground independent Land CB Radio Whips
26MHz or 27MHz



The ZGI40 series are ground independent, 27MHz (Australia) or 26MHz (New Zealand) land CB radio antenna and are designed for fixed position or mounting to the bull bar, guard, boot or truck mirror. No metal ground plane is necessary for effective performance.

Please note: The ZGI40-NZ is suitable for New Zealand 26MHz CB radio communications.

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

Specifications	ZGI40	ZGI40-NZ
Construction	Black heatshrunk fibreglass whip, delrin and chrome base	
Frequency range	Land CB radio 27MHz (i.e. Australia)	Land CB radio 26MHz (i.e. New Zealand)
VSWR	<1.5:1	
Gain	2.1dBi	
Maximum power	50 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable	4.5 metres RG58 stranded - bottom exit from base	
Connector	UHF male PL259 solder connector supplied, not fitted	
Height	1.6metres	
Weight	470grams	
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6	
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole	
Replacement parts: ZGI40	ZGI40-TPM - whip top only - 980mm	
Replacement parts: ZGI40-NZ	ZGI40-NZ-TPM - whip top only - 1.0m	



ZN5-27-12

Ground independent stainless steel Land CB whip 27MHz land CB radio



The ZN5-27-12 is a stainless steel base loaded whip designed and manufactured for 27MHz land CB radio communications for either a vehicle or fixed position mounting.

Please note: this whip requires a metallic ground to perform at stated levels.

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

Specifications	ZN5-27-12
Construction	Type 17-7PH stainless steel whip, delrin and black chrome base
Frequency range	Land CB radio 27MHz
VSWR	<1.5:1
Tuning	Factory
Gain	2.1dBi
Maximum power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
Ferrule thread	Internal 5/16"-26 brass female
H Plane	360° omni-directional
Ground independent	No - metal ground plane required
Height	1.2 metres - not including mount base
Weight	250grams
Mounting accessories order separate	OB-2 / OB-4.7 / MGB-OB or any base with 5/16"-26 brass male thread.
Mounting position recommended	Mount as high on your vehicle/structure as possible using the appropriate base or thread.



OB-2



OB-4.7



MGB-OB

ZN5 series

Ground dependent land CB radio whips

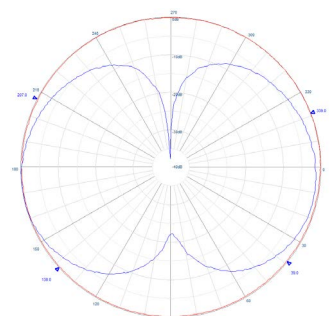
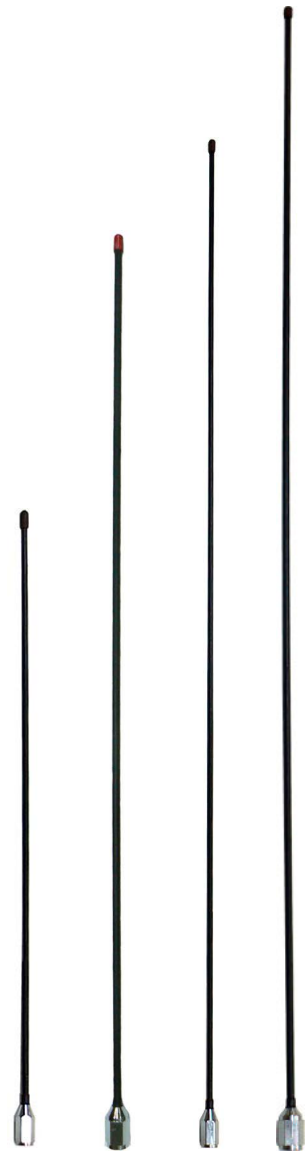
27MHz



The ZN5 series of fibreglass whips are specifically designed and manufactured for 27MHz land CB communications. The ZN5 series of whips are ground dependent, which requires a minimum 2.7m x 2.7m metal ground plane to radiate effectively.

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

Specifications	ZN5 series	
Construction	Black or white heatshrunk fibreglass with chrome ferrule	
Frequency range	Land CB radio 27MHz	
VSWR	<1.5:1	
Tuning	Factory	
Gain	2.1dBi	
Maximum power	50 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Ground independent	No - requires metal ground plane to work effectively	
Mounting hardware order separate	OB-2 / OB-4.7 / MGB-OB or any base with 5/16"-26 TPI thread.	
Mounting position recommended	Mount as high on your vehicle/structure as possible using an appropriate base on a minimum 2.7m x 2.7m ground plane.	
Model Code	Height	Weight
ZN5-27-06	630mm	85grams
ZN5-27-10*	1 metre	120grams
ZN5-27-11	1.23 metres	150grams
ZN5-27-15	1.47 metres	245grams



Sample radiation pattern



OB-2



OB-4.7



MGB-OB

ZN3-77-04 Series

Highly flexible "quick-fit" whip

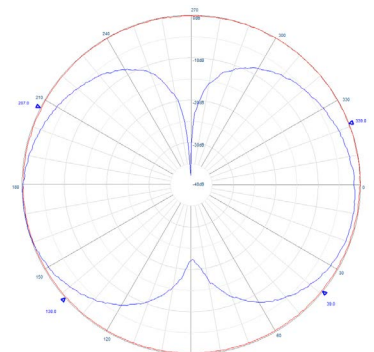
UHF CB radio 477MHz



For owners of our larger high gain ZN3-77 series of UHF CB bull bar mount antenna, the ZN3-77-04 series are the perfect substitute or replacement top for situations where tall antennas might be subject to damage or high gain is not necessary.

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

Specifications	ZN3-77-04-TPM	ZN3-77-04-AB
Construction	Highly flexible radome and delrin mount ferrule	Highly flexible radome, delrin ferrule and mount base
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz	
VSWR	<1.5:1	
Tuning	Factory	
Gain	2.1dBi	
Maximum power	100 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Height	400mm	450mm
Weight	200grams	500grams
Mounting hardware	Spring base: ZN3-SB-L or ZN3-SB-S Magnetic base: MGB-UHF Cable assembly: RA-4.7 Bracket: GM1 or GM2	4.7 metres cable set with mounting base and UHF connector - supplied
Minimum mount hole size	16mm	13mm
Mounting Position	Mount as high on your vehicle or structure as possible using an appropriate hole or appropriate bracket - see above	
Alternate replacement antennas order separate	- ZN3-77-10 Series - ZN3-77-11 Series - ZN3-77-12 Series	N/A



Sample radiation pattern

ZN3-77-10 Series

Medium-duty detachable spring base collinear UHF CB Radio 477MHz



The ZN3-77-10 series of UHF CB radio antennas are designed for vehicle mounting on smaller 4WD vehicles, utes and cars. The ZN3-77-10 suits slightly hilly terrain

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

Specifications	ZN3-77-10B	ZN3-77-10W
Colour	Black	White
Construction	Coloured fibreglass radome, detachable aluminium ferrule, 'barrel' spring base and coaxial cable assembly	
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz	
VSWR	<1.5:1	
Tuning	Factory	
Gain	6.6dBi	
Maximum power	100 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable	4.5 metres RG58 low loss - bottom exit from spring base	
Connector	FME female fitted to cable - for ease of installation	
Adaptor - supplied	FME male to UHF male PL259	
Height	1.1 metres	
Weight	925grams	
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Bracket Mounting: GM1, GM2, GM6	
Mounting position recommended	As high on your vehicle/structure as possible using a 13mm hole or appropriate bracket	
Installation kit contents	3mm Allen key, PVC cap, 8 x cable ties and FME male to UHF male adaptor	
Alternative models	- ZN3-77-04-TPM - highly flexible , 2.1dBi, 400mm - ZN3-77-11 series - heavy-duty, 6.6dBi, 1.2m - ZN3-77-12 series - super heavy-duty, 8.1dBi, 2.1m	



FME female jack connector fitted to cable



FME male to UHF Male PL259 adaptor

ZN3-77-11 Series

Heavy-duty detachable spring base collinear UHF CB Radio 477MHz



The ZN3-77-11 series of UHF CB radio antennas offers a good balance between size and gain which is well suited for slightly hilly to flat terrain such as outer suburbs or the country-side.

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

Specifications	ZN3-77-11B	ZN3-77-11W
Colour	Black	White
Construction	Coloured fibreglass radome, detachable aluminium ferrule, 'barrel' spring base and coaxial cable assembly	
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz	
VSWR	<1.5:1	
Tuning	Factory	
Gain	6.6dBi	
Maximum power	100 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable	4.5 metres RG58 low loss - bottom exit from spring base	
Connector	FME female fitted to cable - for ease of installation	
Adaptor - supplied	FME male to UHF male	
Height	1.2 metres	
Weight	1.42kg	
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Bracket Mounting: GM1, GM2, GM6	
Mounting position recommended	As high on your vehicle/structure as possible using a 13mm hole or appropriate bracket	
Installation kit contents	3mm Allen key, PVC cap, 8 x cable ties and FME male to UHF male adaptor	
Alternative models	- ZN3-77-04-TPM - highly flexible , 2.1dBi, 400mm - ZN3-77-10 series - medium-duty, 6.6dBi, 1.1m - ZN3-77-12 series - super heavy-duty, 8.1dBi, 2.1m	



FME female jack connector fitted to cable



FME male to UHF Male PL259 adaptor

ZN3-77-12 Series

Super heavy-duty detachable spring base collinear
UHF CB Radio 477MHz



The ZN3-77-12 series of UHF CB radio antennas are specifically designed for vehicle mounting on trucks or large 4WD's. Offering the highest gain in the range, this antenna will deliver the maximum transmit and receive range suitable for flat ground.

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

Specifications	ZN3-77-12B	ZN3-77-12W
Colour	Black	White
Construction	Coloured fibreglass radome, detachable aluminium ferrule, 'barrel' spring base and coaxial cable assembly	
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz	
VSWR	<1.5:1	
Tuning	Factory	
Gain	8.1dBi	
Maximum power	100 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable	4.5 metres RG58 low loss - bottom exit from spring base	
Connector	FME female fitted to cable - for ease of installation	
Adaptor - supplied	FME male to UHF male	
Height	2.1 metres	
Weight	1.6kg	
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Bracket Mounting: GM1, GM2, GM4, GM6	
Mounting position recommended	As high on your vehicle/structure as possible using a 13mm hole or appropriate bracket	
Installation kit contents	3mm Allen key, PVC cap, 8 x cable ties and FME male to UHF male adaptor	
Alternative models	- ZN3-77-04-TPM - highly flexible , 2.1dBi, 400mm - ZN3-77-10 series - medium-duty, 6.6dBi, 1.1 m - ZN3-77-11 series - heavy-duty, 6.6dBi, 1.2m	



FME female jack connector fitted to cable



FME male to UHF Male PL259 adaptor

ZN4-77-07S

Light to medium duty phased coil whip with parallel spring base

UHF CB Radio 477MHz



The ZN4-77-07S is a light to medium duty ground independent UHF CB Radio antenna, perfect for small to medium vehicles or fixed position mounting.

The ZN4-77-07S is fitted with a parallel spring suitable for light to medium duty applications, for heavy-duty, extreme conditions consider using the ZN4-77-07 'barrel' spring model.

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

Specifications	ZN4-77-07S
Construction	Black stainless steel whip, delrin and chrome feed base and parallel spring base
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz
VSWR	<1.5:1
Tuning	Factory
Gain	6.6dBi
Maximum power	25 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	4.5 metres RG58 low loss - bottom exit from spring base
Connector	FME female fitted to cable - for ease of installation
Adaptor - supplied	FME male to UHF male PL259
Height	900mm
Weight	500grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole
Alternative models	ZN4-77-06 series - fiberglass whip model, 6.6dBi, parallel or barrel spring ZN4-77-07 - stainless steel whip, 6.6dBi, heavy-duty barrel spring ZN3-77 series - radome collinear, 6.6-8.1dBi, 1.1-2.1m SG477 series - radome collinear, 2.1dBi, 900mm



Medium-duty stainless steel parallel spring base



FME female jack connector fitted to cable

FME male to UHF Male PL259 adaptor

ZN4-77-07

Medium duty Phased whip barrel spring base UHF CB radio 477MHz



The ZN4-77-07 ground independent UHF CB antenna is a lightweight 477MHz antenna which delivers excellent performance with medium gain. The ZN4-77-07 suits more extreme heavy-duty terrain, for light-medium duty applications see the ZN4-77-07S.

The ZN4-77-07 is suitable for all radios on the market with a UHF female connection.

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

Specifications	ZN4-77-07
Construction	Black stainless steel whip, delrin and chrome feed base, 'barrel' spring base and coaxial cable assembly
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz
VSWR	<1.5:1
Tuning	Factory
Gain	6.6dBi
Maximum power	25 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	4.5 metres RG58 low loss - bottom exit from spring base
Connector	FME female fitted to cable - for ease of installation
Adaptor - supplied	FME male to UHF male PL259
Height	950mm
Weight	700grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole
Alternative models	ZN4-77-06 series - fibreglass whip model, 6.6dBi, parallel or barrel spring ZN4-77-07S - stainless steel whip, 6.6dBi, parallel spring ZN3-77 series - radome collinear, 6.6-8.1dBi, 1.1-2.1m SG477 series - radome collinear, 2.1dBi, 900mm



Heavy-duty stainless steel 'barrel' spring base



FME female jack connector fitted to cable



FME male to UHF Male PL259 adaptor

ZN4-77-06S-TCP

Light to Medium-duty dual whip town & country model

UHF CB radio 477MHz


In-stock
Ready to
Ship

The ZN4-77-06S-TCP is the perfect antenna solution for both inner city and country UHF CB requirements. The easily inter-changeable whips for both low and medium gain applications.

The small 2.1dBi whip is suitable for inner city or extreme hilly terrain, the 6.6dBi whip is suitable for flat open terrain such as the Australian outback.

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

Specifications		ZN4-77-06S-TCP
Construction		Black heatshrunk whips, chrome ferrules, chrome and delrin feed mount and parallel spring base
Whip Type		Low gain ZN1-77-00 - stainless steel wire whip Medium gain ZN1-77-04 - fibreglass whip
Frequency range		UHF CB radio 477MHz - 476.4125-477.4125MHz
VSWR		<1.5:1
Tuning		Factory
Gain		Low gain whip: 2.1dBi Medium gain whip: 6.6dBi
Impedance		50 Ohms
Maximum power		25 Watts
Polarisation		Vertical
Connector		FME female fitted to cable - for ease of installation
Adaptor - supplied		FME male to UHF male PL259
Cable		4.5 metres RG58 low loss - bottom exit from spring base
Height	- Low gain	403mm
	- Medium gain	900mm
Weight	- Low gain	426grams
	- Medium gain	500grams
Mounting hardware order separate		Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM4, GM6
Mounting position recommended		As high on your vehicle/truck or structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole



FME female jack connector fitted to cable



FME male to UHF Male PL259 adaptor

ZN4-77-06-TCP

Heavy-duty dual whip town & country model

UHF CB Radio 477MHz



The ZN4-77-06-TCP is the perfect dual whip antenna solution for both inner city and country UHF CB requirements. The easily interchangeable whips for both low and medium gain applications.

The small 2.1dBi whip is suitable for inner city or extreme hilly terrain, the 6.6dBi whip is suitable for flat open terrain such as the Australian outback.

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

Specifications	ZN4-77-06-TCP
Construction	Black heatshrunk whips, chrome ferrules, chrome and delrin feed mount 'barrel' spring base and cable assembly
Whip type	Low gain ZN1-77-00 - stainless steel wire whip Medium gain ZN1-77-04 - fibreglass whip
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz
VSWR	<1.5:1
Tuning	Factory
Gain	Low gain whip: 2.1dBi Medium gain whip: 6.6dBi
Impedance	50 Ohms
Maximum power	25 watts
Polarisation	Vertical
Connector	FME female fitted to cable - for ease of installation
Adaptor - supplied	FME male to UHF male PL259
Cable	4.5 metres RG58 low loss - bottom exit from spring base
Height	- Low gain 403mm - Medium gain 900mm
Weight	- Low gain 426grams - Medium gain 500grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBM XL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole



FME female jack connector fitted to cable



FME male to UHF Male PL259 adaptor

ZN4-77-06S

Light to medium-duty fibreglass whip and parallel spring base
UHF CB Radio 477MHz

 In-stock
Ready to
Ship

The ZN4-77-06S is a ground independent UHF CB Radio antenna perfect for small to medium vehicles or fixed position mounting.

The ZN4-77-06S is fitted with a parallel spring suitable for light to medium duty applications, for heavy-duty, extreme conditions consider using the ZN4-77-06 'barrel' spring model.

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

Specifications	ZN4-77-06S
Construction	Black heatshrunk fibreglass whip, delrin and chrome feed base, parallel spring base and cable assembly
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz
VSWR	<1.5:1
Tuning	Factory
Gain	6.6dBi
Maximum power	25 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	4.5 metres RG58 low loss - bottom exit from spring base
Connector	FME female fitted to cable - for ease of installation
Adaptor - supplied	FME male to UHF male PL259
Height	900mm
Weight	500grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole
Alternative models	ZN4-77-06 - fibreglass whip, 6.6dBi, barrel spring - heavy-duty ZN4-77-07 series - stainless steel whip model, 6.6dBi, parallel or barrel spring ZN3-77 series - radome collinear, 6.6-8.1 dBi, 1.1-2.1m SG477 series - radome collinear, 2.1dBi, 900mm



ZN4-77-06

Heavy-duty fibreglass whip and barrel spring base UHF CB Radio 477MHz



The ZN4-77-06 ground independent UHF CB Radio antenna is a lightweight antenna which delivers excellent performance and medium gain. The ZN4-77-06 suits more extreme heavy-duty terrain, for light-medium duty applications see the ZN4-77-06S.

The ZN4-77-06 is suitable for all radios on the market with a UHF female connection.

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

Specifications	ZN4-77-06
Construction	Black heatshrunk fibreglass whip, delrin and chrome feed base and barrel spring base
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz
VSWR	<1.5:1
Tuning	Factory
Gain	6.6dBi
Maximum power	25 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	4.5 metres RG58 low loss - bottom exit from spring base
Connector	FME female fitted to cable - for ease of installation
Adaptor - supplied	FME male to UHF male PL259
Height	950mm
Weight	700grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole
Alternative models	ZN4-77-06S - fibreglass whip, 6.6dBi, parallel spring - light to medium duty ZN4-77-07 series - stainless steel whip model, 6.6dBi, parallel or barrel spring ZN3-77 series - radome collinear, 6.6-8.1dBi, 1.1-2.1m SG477 series - radome collinear, 2.1dBi, 900mm



Heavy-duty stainless steel 'barrel' spring base



FME female jack connector fitted to cable



FME male to UHF Male PL259 adaptor

ZN4-77-09T

Light-duty fibreglass whip and base, no spring

UHF CB Radio 477MHz


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

The ZN4-77-09T series are ground independent UHF CB Radio antennas suitable for either light-duty vehicle or fixed position mounting.

Please note: The ZN4-77-09T series **do not** come fitted with a spring base so is recommended for low impact applications on a vehicle such as forklifts/low speed vehicles or fixed position mounting such as an on-site office/cabin.

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

Specifications	ZN4-77-09T	ZN4-77-09T-W
Colour	Black fibreglass whip	White fibreglass whip
Construction	Heatshrunken fibreglass whip, delrin and chrome feed base and cable assembly, no spring	
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz	
VSWR	<1.5:1	
Tuning	Factory	
Gain	6.6dBi	
Maximum power	25 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable	4.5 metres RG58 low loss - bottom exit from base	
Connector	FME female fitted to cable - for ease of installation	
Adaptor - supplied	FME male to UHF male PL259	
Height	800mm	
Weight	500grams	
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS or BBM XL-SS, ATLM or A-2651-2 Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6	
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole	



ZN4-77-09T

ZN4-77-09T-W



Cable exit from base of mount

Note no spring base



FME female jack connector fitted to cable



FME male to UHF Male PL259 adaptor

SG477 Series

Medium to heavy-duty 'barrel' spring base collinear
UHF CB radio 477MHz

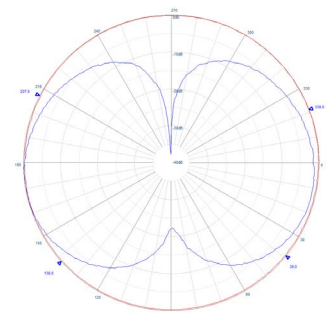


The SG477 series of UHF CB radio antennas are designed for vehicle or fixed position mounting. The SG477 series is suitable for all UHF CB radios on the market with UHF female input connection. The SG477 is suitable for extreme, heavy-duty applications, for light to medium duty or small vehicles consider the SGL477 series.

The SG477 series is identical in appearance with the **SGDB mobile phone models** and **SG1100 AM/FM receive models**.

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

Specifications	SG477
Colour	Black, white or brown (request) - specify when ordering
Construction	Fibreglass radome, aluminium ferrule, stainless steel 'barrel' spring base and coaxial cable assembly
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz
VSWR	<1.5:1
Tuning	Factory
Gain	2.1dBi
Maximum power	20 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	5 metres RG58 low loss - side exit from ferrule
Connector	UHF male solder connector PL259 supplied, not fitted
Height	900mm
Weight	900grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 Alternate spring: 1270 heavy-duty parallel spring
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole



SG477 sample radiation pattern

SG477-BLKR


In-stock
Ready to
Ship

NEW All black medium to heavy-duty 'barrel' spring base collinear UHF CB radio 477MHz

The all black SG477-BLKR series of UHF CB radio antennas are designed for vehicle or fixed position mounting. The SG477-BLKR series is suitable for all UHF CB radios on the market with UHF female input connection.

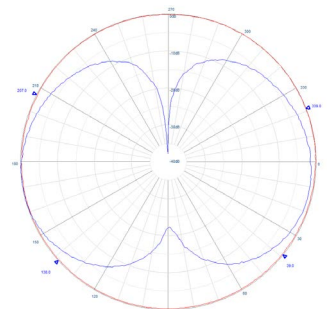
The SG477-BLKR series is identical in appearance with the SGDB-BLKR mobile phone improvement and SG1100-BLKR AM/FM radio receive models.

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

Specifications	SG477-BLKR
Construction	Black fibreglass radome, black aluminium ferrule, black stainless steel barrel spring base and cable assembly
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz
VSWR	<1.5:1
Tuning	Factory
Gain	2.1dBi
Maximum power	20 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	5 metres RG58 low loss - side exit from ferrule
Connector	UHF male solder PL259 connector supplied, not fitted
Height	900mm
Weight	900grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole



UHF male PL259 connector supplied not fitted



SG477-BLKR sample radiation pattern



SGL477 Series

Light to medium-duty parallel spring base collinear
UHF CB radio 477MHz


In-stock
Ready to
Ship

The SGL477 series is a light to medium-duty UHF CB radio antenna designed for vehicle mounting on small 4WD's, utes or cars. The SGL477 series are suitable for all UHF CB radios on the market with UHF female input connection.

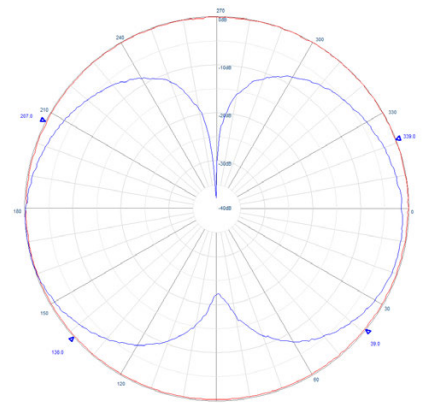
The SGL477 series are identical in appearance with the SGLDB mobile phone series and SGL1100 AM/FM series.

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

Specifications	SGL477
Colour	Specify Black, Brown or White when ordering
Construction	Coloured fibreglass radome, aluminium ferrule, parallel spring base and coaxial cable assembly
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz
VSWR	<1.5:1
Tuning	Factory
Gain	2.1dBi
Maximum power	20 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	5 metres RG58 low loss - bottom exit from spring base
Connector	UHF male solder PL259 connector supplied, not fitted
Height	750mm
Weight	650grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6, ATLM series
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole



UHF male PL259 connector
supplied not fitted



Sample radiation pattern



SGL477-BLKR

NEW

All-black light to medium-duty parallel spring base collinear
UHF CB radio 477MHz

In-stock
Ready to
Ship

The SGL477-BLKR is a light to medium-duty UHF CB radio antenna designed for structure or vehicle mounting on small 4WD's, utes or cars. The SGL477-BLKR series are suitable for all UHF CB radios on the market with UHF female input connection.

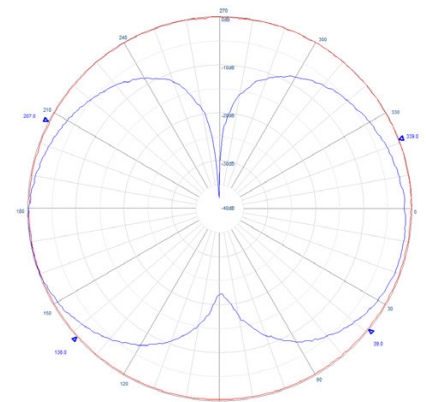
The SGL477-BLKR series are identical in appearance with the SGLDB-BLKR mobile phone improvement and SGL1100-BLKR AM/FM receive.

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

Specifications	SGL477-BLKR
Construction	Black fibreglass radome, black aluminium ferrule, black stainless steel parallel spring and cable assembly
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz
VSWR	<1.5:1
Tuning	Factory
Gain	2.1dBi
Maximum power	20 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	5 metres RG58 low loss - bottom exit from spring base
Connector	UHF male solder connector PL259 supplied, not fitted
Height	750mm
Weight	650grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6, ATLM series
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 16mm hole or appropriate bracket with a 16mm hole



UHF male PL259 connector supplied not fitted



BBM-SS



MRM-SS



BBKB-B



ATLM series

GID-M480-QF

Ground independent "Quick-fit" elevated feed phased coil antenna
UHF 470-490MHz or UHF CB radio 477MHz

 In-stock
Ready to
Ship

The GID-M480-QF "quick-fit" ground independent UHF CB radio antenna features a UHF male connector in the "quick-fit" base, which fits onto a UHF female terminated base. The 'quick-fit' design makes installation so simple with the additional benefit of being easily removed if you are concerned about damage, vandalism or theft.

Please note: This antenna requires a mounting base - see recommended mounting hardware.

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

Specifications	GID-M480-QF
Construction	Black powdercoated whip, delrin and chrome feed base
Frequency range	UHF 470-490MHz or UHF CB radio 477MHz
VSWR	<1.5:1
Tuning	Factory
Gain	6.6dBi
Maximum power	50 Watts
Ground independent	Yes
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Connector	UHF male PL259 in base of feed base
Height	820mm
Weight	380grams
Mounting hardware order separate	Magnetic base: MGB-UHF or ZMB-90 Cable assembly: RA-4.7 with appropriate bracket
Mounting position recommended	As high on your vehicle/structure as possible using an appropriate magnetic base or cable base and bracket



UHF Male PL259 in base of mount ferrule



RA-4.7



MGB-UHF



ZMB-90

GID 480 series

Ground independent phased coil elevated feed whips
UHF 470-490MHz including UHF CB Radio 477MHz


In-stock
Ready to
Ship

These GID ground independent, light to medium-duty design antennas are designed for UHF CB radio communications in low impact applications. These antennas are suitable for all UHF CB radios on the market with UHF female input connection.

For medium to heavy-duty applications where a spring base is recommended please consider the ZN4-77-06 and ZN4-77-07 models.

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

Specifications	GID-M480	GID-MB480
Construction	Black powdercoated whip, delrin and chrome feed base and spring base	Black heatshrunk fibreglass whip, delrin and chrome feed base and spring base
Frequency range	UHF 470-490MHz including UHF CB Radio 477MHz	
VSWR	<1.5:1	
Tuning	Factory	
Gain	6.1dBi	
Maximum power	25 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable	4.5 metres RG58 low loss - bottom exit from mount base	
Connector	FME female fitted to cable - for ease of installation	
Adaptor	FME male to UHF male PL259 supplied	
Height	800mm	850mm
Weight	960grams	970grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or A-6211	
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 10mm hole or appropriate bracket with a 10mm hole	



GRN480 series

Highly flexible ground independent whip and base
UHF 470-490MHz including UHF CB radio 477MHz


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

The GRN half wave UHF CB radio antennas feature a highly flexible PVC top which is virtually unbreakable.

Perfect for rugged off-road driving, forklifts and tractors, these ground independent mobile antennas can be mounted in various positions and offer effective performance.

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

Specifications	GRN480	GRN480-TPM	GRNFC480*
Includes	Antenna top and cable base	Antenna top only	Antenna, 4.7m fixed cable
Detachable top	Yes		No
Construction	Delrin ferrule, highly flexible black PVC radome		
Frequency range	UHF 470-490MHz including UHF CB Radio 477MHz		
VSWR	<1.5:1		
Tuning	Factory		
Gain	4dBi		
Maximum power	50 Watts		
Impedance	50 Ohms		
Polarisation	Vertical		
H Plane	360° omni-directional		
Height	330mm		
Weight	360 grams	115 grams	320 grams
Connector	UHF male supplied	UHF male in base of ferrule	UHF male supplied
Cable	Right-angle 4.7m RG58A/U	None supplied - order separate	Fixed 4.7m RG58A/U
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6		
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 16mm hole or appropriate bracket with a 16mm hole		



GRN480



GRN480-TPM



GRNFC480



BBM-SS



MRM-SS



BBKB-B

GRMWFC477

Ground independent phased coil whip with fixed cable

UHF 470-490MHz or UHF CB radio 477MHz


In-stock
Ready to
Ship

The GRMWFC477 is a ground independent, half wave, end fed, UHF CB Radio vehicle mount antenna.

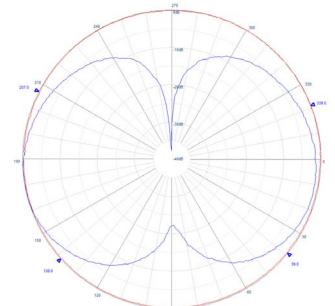
The light weight and robust design makes this antenna the ideal choice for mounting in any position on any vehicle, truck mirror or structure with the appropriate bracket.

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

Specifications	GRMWFC477
Construction	Stainless steel phased coil whip, delrin and chrome base and cable assembly
Frequency range	UHF 470-490MHz or UHF CB Radio 477MHz
Bandwidth	Full frequency range
VSWR	<1.5:1
Tuning	Factory
Gain	2.1dBi
Maximum power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Height	650mm
Weight	400grams
Cable	4.7 metres RG58 stranded - bottom exit from base
Connector	FME female fitted to cable - for ease of installation
Adaptor - supplied	FME male to UHF male PL259 adaptor
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS, BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole



FME male to UHF male PL259 adaptor supplied



GRMWFC477 sample radiation pattern



BBM-SS

MRM-SS



BBKB-B

ZN1-77-02

Highly flexible vehicle mount with fixed cable

UHF CB radio 477MHz



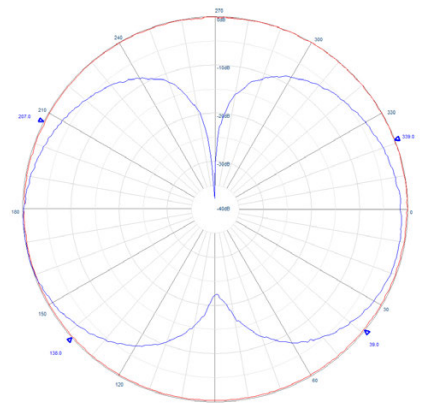
The ZN1-77-02 is a highly flexible low profile half wave UHF CB antenna ideally suited to long term vehicle or fixed position mounting.

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

Specifications	ZN1-77-02
Construction	Highly flexible radome, chrome ferrule and fixed coaxial cable assembly
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz
VSWR	<1.5:1
Tuning	Factory
Gain	2.1dBi
Maximum power	100 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	4.5 metres RG58 stranded - bottom exit from ferrule
Connector	FME female fitted to cable - for ease of installation
Adaptor	FME male to UHF male PL259 supplied
Height	400mm
Weight	300grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or ATLM series
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole - see above



FME male to UHF male PL259 adaptor supplied



ZN1-77-02 sample radiation pattern



BBM-SS



MRM-SS



ATLM series
Black or chrome



BBKB-B

ZN1 Whip Series

Stainless steel phased coil and fibreglass whips

UHF CB radio 477MHz



The ZN1 series of whips are specifically designed and manufactured for UHF CB radio 477MHz in range of gain performance levels. The ZN1 series of whips can be fitted on any antenna base with a 5/16"-26TPI thread in either a vehicle or fixed position mounting.

Please note: The ZN1-77-04 and ZN1-77-11 are also available in white upon request.

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



Specifications	ZN1-77-00	ZN1-77-03	ZN1-77-03S	ZN1-77-04	ZN1-77-11
Construction	Black heat-shrunk whip and chrome ferrule	Black powder-coated whip and ferrule	Electro polished 17-7PH stainless steel and ferrule	Black or white heatshrunk fibreglass whip and chrome ferrule - add -W for white	
Frequency range	UHF CB radio 477MHz - 476.4125-477.4125MHz				
VSWR	<1.5:1				
Gain	2.1dBi			6.6dBi	
Maximum power	20 Watts				
Impedance	50 Ohms				
Polarisation	Vertical				
H Plane	360° omni-directional				
Height	143mm	586mm		640mm	1.225m
	35grams	75grams		100grams	270grams
Mount ferrule thread	5/16"-26 brass female				
Mounting hardware order separate	Base: OB-2 Cable base: OB-4.7 - requires ground plane or Ground independent base: ZN4-77-01 no spring or ZN4-77-02 'barrel' spring base Magnetic base: MGB-OB				
Mounting position recommended	As high on your vehicle/structure as possible using an appropriate 16mm 16mm hole or appropriate bracket with a 16mm hole or magnetic base.				



OB-2



OB-4.7



ZN4-77-01 ZN4-77-02



MGB-OB

OZU-1 & OZU-3

Adhesive on-glass phased whip with conductive base

UHF 390-520MHz


In-stock
Ready to
Ship

A vehicle on-glass mount, UHF CB radio antenna is a popular alternative to other bracket mounted antenna. These OZU series on-glass UHF models are simple to install, just peel, place and connect.

Please note: The internal adhesive ground plane strips should not be trimmed. Unit should not be adhered to any window with heater dimister elements or UV tinting.

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

Specifications	OZU-1	OZU-3
Construction	Black stainless steel whip, thermoplastic base	
Frequency range	UHF 390-520MHz	UHF 390-520MHz
Bandwidth	Any 15MHz	Any 20MHz
VSWR	<2:1 across bandwidth	
Tuning	Field tuning using capacitor and SWR meter	
Gain	5.1dBi	2.1dBi
Impedance	50 Ohms	
Maximum power	50 Watts	
Polarisation	Vertical	
H Plane	360° omni-directional	
Cable - supplied	4.5 metres RG58 low loss	
Connector - junction box	Mini-UHF	
Connector - radio	Order separately on order	
Whip type	5/8 λ - wave	1/4 λ - wave
Height	560mm	230mm
Weight	300grams	
Installation kit contents	3mm allen key, alcohol glass wip, installation/tuning guide	
Mounting position recommended	Mount on either windscreen or rear window on clear glass, where heating elements, imbedded antennas, metallic flakes or tint are not present.	



OZU-1



OZU-3

Antenna Brackets & Springs



Page 1 of 4

This selection of stainless steel brackets are available to stud mount antennas in various positions.

These brackets are mostly used to mount onto your vehicle, they can also be useful for fixing antennas to buildings or fascia boards.

Each bracket has a 13, 16 or 17mm diameter hole through which the antenna is secured.



16mm hole

GM1

- 'L' Bracket for Guard mount
- 1.6mm stainless steel
- 2 holes for screws/bolts
- Also suits fascia board



16mm hole

GM2

- 'Z' Bracket for guard mount
- 1.6mm stainless steel
- 2 drilled holes for screws
- 1 drilled hole for bolt/stud



22mm hole

GM3

- 'L' Bracket for guard mount
- 1.6mm stainless steel
- 2 drilled holes for screws
- 1 drilled hole for bolt/stud



13mm slot

GM5

- Slotted 'L' bracket
- 0.7mm stainless steel
- 3 holes for screws/bolts
- Suits light stud mount



16mm slot

GM6

- Slotted 'L' bracket
- 0.7mm stainless steel
- 3 holes for screws/bolts
- Suits light stud mount



16mm hole

MRM-SS

- Bracket for mirror/pole
- 20mm diameter tube max.
- All stainless steel
- Includes bolts/nuts/washers



17mm hole

ATLM-CH

- Rotating/tilt bracket
- Zinc alloy
- 225grams
- Suits bonnet/door/boot



17mm hole

ATLM-B

- Rotating/tilt bracket
- Black powdercoated stainless steel
- 225grams
- Suits bonnet/door/boot

Antenna Brackets & Springs



Page 2 of 4

This selection of black knock-down and stainless steel bull bar mounting brackets are available ranging from a small diameter bull bar, up to a large diameter bull bar.

Each bracket has a 16mm diameter hole through which the antenna is secured.

NEW



17mm hole

BBKB-B

Rhino-rack knock-down bracket

Adjustable tilt capability

Black powdercoat

Includes mounting hardware



16mm hole

BBM-SS

Standard bracket for bull bar

50mm diameter tube max.

304 stainless steel

Includes U-bolts/nuts/washers



16mm hole

BBML-SS

Medium bracket for bull bar

65mm diameter tube max.

304 stainless steel

Includes U-bolts/nuts/washers



16mm hole

BBMXL-SS

Large bracket for bull bar

76mm diameter tube max.

All Stainless Steel

Includes U-bolts/nuts/washers

Antenna Brackets & Springs



Page 3 of 4

1269



The '1269' electro-polished stainless steel barrel spring has been used successfully on our popular SG range of antennas for decades.

105mm tall x 45mm diameter

1/2"-12 BSW thread both ends

Includes a 1/2"-12 BSW bolt and spring washer

1269-7



The '1269-7' electro-polished stainless steel barrel spring has been used successfully on our popular SG range of antennas for decades.

105mm tall x 45mm diameter

M10 thread in top M12 stud in base

Includes a M12 stud and split nut

1270



The '1270' heavy duty stainless steel parallel spring is ideal for mounting very tall antennas to a vehicle bull bar. Highly recommended for tough/rough terrain.

105mm tall x 45mm diameter

1/2"-12 BSW thread both ends

Includes a 1/2"-12 BSW bolt and spring washer

1570



The 1570 stainless steel spring allows the antenna cable to pass through the centre of the spring and exit through the base.

50mm tall x 20mm diameter

M10 thread both ends suitable for GRHFC/GID-M90T/M70T

5/16"-26 TPI male and female threads

Antenna Brackets & Springs



Page 4 of 4

MS Base



The 'MS Base' medium duty stainless steel spring will suit and mobile whip being mounted on our OB-2 antenna base.

60mm tall x 20mm diameter

5/16"-24 TPI male and female threads

ZN Base



The ZN Base cable assembly suits any ZCG ZN3 series UHF male terminated antenna, suitable for light-duty installation either fixed or mobile.

67mm base height

Top mount UHF female connector

10 metres RG58 A/U MIL-SPEC stranded

SMA male fitted - or specify requirements

7/8" nut and toothed washer supplied

ZN3-SB-S



The ZN3-SB-S stainless steel barrel spring base and cable assembly are suited for the ZN3-77-10 medium duty UHF CB radio antenna.

153mm tall x 55mm diameter

Top mount UHF female connector

4.5 metre RG58 low loss cable

1/2"-12 BSW thread

Includes 1/2"-12 BSW stud and split nut

Install Kit - 3mm allen key, PVC cap, solder, UHF male connector and 8 cable ties

ZN3-SB-L



The ZN3-SB-L heavy duty stainless steel barrel spring base and cable assembly are suited for models such as the ZN3-77-11 or ZN3-77-12 CB radio antennas.

165mm tall x 20mm diameter

Top mount UHF female connector

4.5 metre RG58 low loss cable

1/2"-12 BSW thread

Includes 1/2"-12 BSW stud and split nut

Install Kit - 3mm allen key, PVC cap, solder, UHF male connector and 8 cable ties

Accessories

Stainless Steel & Black Nylon Cable Ties

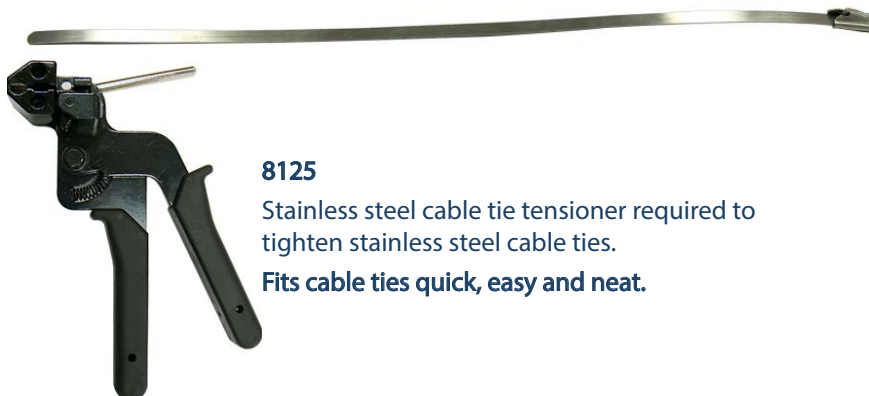
Page 1 of 2



Cable ties, either Stainless Steel or Black nylon are a crucial accessories for any antenna installation.

PVC tape, amalgamation tape, grommets and other installation accessories are all available separately.

Stainless Steel 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
8117-6	Bag of 100, 316 grade, 300mm long x 7.94mm
8117-7	Bag of 100, 316 grade, 500mm long x 7.94mm



8125

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

Fits cable ties quick, easy and neat.

Black Nylon Order Code	Specifications
8528-1	Bag of 100, 100mm long x 3mm width
8529	Bag of 100, 200mm long x 5mm width
8530	Bag of 100, 300mm long x 5mm width
8530-2	Bag of 100, 450mm long x 9mm width



Accessories

Water-proofing

Page 2 of 2


In-stock
Ready to
Ship

Water-proofing is a crucial step in any antenna installation whether it's a vehicle mount, marine, fixed position or broadcast, correct water-proofing can lengthen the life of your antenna system.

Consult ZCG's installation guides or ZCG's sales team for advice on correct water-proofing for your requirements.

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

8651



8574



Cable Gland Order Code	Specifications
8485	Black PVC, UV rated, 5-10mm capability
8485-2	Black PVC, UV rated, 11-17mm capability
8485-3	Cream PVC, 5-10mm capability
8485-4	Cream PVC, 18-24mm capability
8485-5	Black PVC, UV rated, 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



Vehicle mount Mobile phone & wireless data Contents page

Vehicle bull bar mount

- SG700-4GX	All networks 4G LTE, 718-788MHz, 5.1dBi, 1.1m
- SG700-4GX-BLKR	All networks 4G LTE, 718-788MHz, 5.1dBi, 1.1m -ALL BLACK
- SGDB Series	All networks 4G & 3G, 825-960 & 1710-2190MHz, 6.2 dBi & 3 dBi
- SGDB-BLKR	All networks 4G & 3G, 825-960 & 1710-2190MHz, 6.2 dBi & 3 dBi -ALL BLACK
- ZN3-SGDB-11 Series	All networks 4G & 3G, 6.2 dBi & 3 dBi, Detachable
- ZIR-1626-RC	Satellite Communications, 1616-1625.6MHz, 5 dBi

Vehicle guard, boot or mirror mount

- GID-M70T	All networks 4G LTE, 703-748MHz, 5.1dBi, FME female, 400mm
- GID-M90T Series	Telstra 4G/3G or Optus & Vodafone 4G/3G, 5.1 dBi, FME female, 600mm
- GIDM-DB	Telstra 4G/3G, 2.1 dBi, FME female, 270mm
- GIDM-800	Telstra 4G/3G, 2.1dBi, FME female, 220mm - flexible whip
- SGLWB *NEW*	All networks 4G LTE, 4G & 3G, 700-960 & 1710-2700MHz, 2.1dBi, 750mm
- SGLDB Series	All networks 4G and 3G, 825-960 & 1710-2190MHz, 6.2 dBi & 3dBi, 750mm
- SGLDB-BLKR	All networks 4G and 3G, 825-960 & 1710-2190MHz, 6.2 dBi & 3dBi, 750mm -ALL BLACK
- SGL2000	All networks Upper 4G & 3G, 1920-2170MHz, 6.2 dBi

Antenna brackets & springs

On-glass mount

- OG800	All networks 4G/3G, 824-960MHz, 5 dBi
- OG835	All networks 4G/3G, 7.2 dBi
- OG-PH-33F-7 *NEW*	All networks 4G/3G, 3 and 5dBi - 2 whips
- OG8-TB	All networks 4G/3G, 5 dBi
- OGI-08-4	All networks 4G/3G, 1.5 dBi
- OGI-EPH401	All networks 4G LTE, 4G & 3G, Fakra type D, 2.1 dBi

Magnetic base mount

- MAG-CELL-DB	Telstra 4G/3G, 3.1 dBi
- MAGM90T Series	Telstra 4G/3G or Optus & Vodafone 4G/3G, 5dBi

Whips, Bases & Cable Assemblies

Vehicle mount Mobile phone & wireless data Contents page

Low profile, rugged, covert

- ZCG-EEH-L01	All networks 4G LTE, 4G & 3G, 2dBi & 2.75dBi, N-type female at base, 80mm
- ZCG-EEH-L01FC	All networks 4G LTE, 4G & 3G, 2dBi & 2.75dBi, FME female, 2m cable, 80mm
- ZCG-EEH-L01-SMA *NEW*	All networks 4G LTE, 4G & 3G, 2dBi & 2.75dBi, SMA male, 1.0m cable, 80mm
- ZCG-EEH-L01-NC *NEW*	All networks 4G LTE, 4G & 3G, 2dBi & 2.75dBi, no termination, 4.0m cable, 80mm
- ZCG-EEH-201	WiFi & WLAN 2.4-2.485GHz & 5.15-5.87GHz, 4.1dBi, specify termination, 80mm
- CT800 & CT900	Telstra 4G/3G or Optus & Vodafone 4G/3G, 2.1 dBi
- CT800-RD/CT800-RD-GPS	H.I.P.S. enclosed low profile, Telstra 4G/3G & L1 GPS 1575.42MHz
- CT900-RD/CT900-RD-GPS	H.I.P.S. enclosed low profile, Optus & Vodafone 4G/3G & L1 GPS 1575.42MHz
- GCRFA & GCT	Mobile Phone/ Wireless Data, L1 GPS & WiFi, 1 dBi & 27dB typical
- ZAW-CELL-4G *NEW*	4G LTE/4G/3G & 2G/GSM, 698-960 & 1710-2690MHz, TNC male, magnetic mount, single cable
- ZAW-WiFi-4G	4G LTE/4G/3G/2G/GSM & WiFi 698-960 & 1710-2690MHz, SMA male, thread mount, dual cable
- ZAW-9-LTE *Upgraded*	4G LTE/4G/3G, WiFi/WLAN, L1 GPS/GLONASS Low Profile, SMA male, thread and nut/washer mount
- ZAU-GPSWL-6	4G LTE, 4G, 3G, L1 GPS and WiFi, 'Shark-fin', specify termination, 2dBi
- ZAU-3C5M	Mobile Phone/ Wireless Data & L1 GPS, 1 dBi and 27 dB typical, FME and SMA
- ZAU-9-LTE	4G LTE, 4G, 3G, L1 GPS/GLONASS and WiFi, 85mm diameter
- ZAU-8-915	L1 GPS 1575.42MHz and ISM 902-928MHz, 3M adhesive mount
- ZAU-E100C	Satellite communications 1616-1626.5MHz, 2.5dBi, specify connector & cable length, thread mount
- ZAU-IRD-ADH *NEW*	Satellite communications 1616-1626.5MHz, 4dBic, adhesive mount

How to order

Terms and conditions of sale

Contact us

SG700-4GX

Medium to heavy-duty Mobile Phone/wireless data collinear
4G LTE 700-788MHz and lower 4G/3G 820-890MHz

In-stock
Ready to Ship

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

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



Specifications	SG700-4GX
Construction	Black fibreglass radome, aluminium ferrule, stainless steel 'barrel' spring and cable assembly
Frequency range	4G LTE/ 4G Plus/ 4GX, and lower 4G/3G 700-788MHz and 820-890MHz
Bandwidth	Full frequency ranges
Tuning	Factory
VSWR	<1.8:1
Gain	5.1dBi at 718-788MHz and 4.0dBi at 820-890MHz
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	4.5 metres RG58 low loss - side exit from ferrule
Connector	FME female fitted to cable - for ease of installation
Height	1.1 metres
Weight	850grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or ATLM-CH/B
Mounting position recommended	Mount as high on your vehicle, structure, mast or tower as possible using the appropriate mounting bracket or a suitable minimum 13mm hole.



CEL-FI Go compatible using an SMA Male to FME male adaptor - P/N 8275 - order separate



BBM-SS



MRM-SS



ATLM-B



BBKB-B

NEW SG700-4GX-BLKR

Medium to heavy-duty Mobile Phone/wireless data collinear
4G LTE 700-788MHz and 4G/3G 820-890MHz


In-stock
Ready to
Ship

The SG700-4GX-BLKR all black collinear is designed for maximum gain with an omni-directional pattern within the 4G LTE networks. The SG700-4GX-BLKR also functions on the 4G/3G 820-890MHz frequency range.

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



Specifications	SG700-4GX-BLKR
Construction	Black fibreglass radome, black aluminium ferrule and cap, black stainless steel 'barrel' spring and cable assembly
Frequency range	4G LTE/ 4G Plus/ 4GX, and 4G/3G 700-788MHz and 820-890MHz
Bandwidth	Full frequency ranges
Tuning	Factory
VSWR	<1.8:1
Gain	5.1dBi at 718-788MHz and 4.0dBi at 820-890MHz
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	4.5 metres RG58 low loss - side exit from ferrule
Connector	FME female fitted to cable - for ease of installation
Height	1.1 metres
Weight	850grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or ATLM-CH/B
Mounting position recommended	Mount as high on your vehicle, structure, mast or tower as possible using the appropriate mounting bracket or a suitable minimum 13mm hole.



CEL-FI Go compatible using an SMA Male to FME male adaptor - P/N 8275 - order separate



BBM-SS



MRM-SS



ATLM-B



BBKB-B



SGDB series

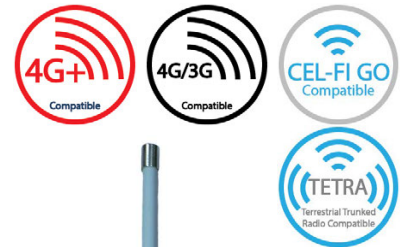
Medium to Heavy-duty Mobile phone or wireless data
4G/3G 825-960 & 1710-2190


In-stock
Ready to
Ship

The SGDB series of super gain mobile phone antennas offer fine performance combined with our robust tried and tested ZCG quality construction.

The SGDB antenna is identical in appearance to SG477 series and SG1100 series. For all black version see SGDB-BLKR

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



Specifications	SGDB series		
Order code	Black SGDB-B	White SGDB-W	Grey SGDB-G*
Construction	Coloured fibreglass radome, aluminium mount ferrule and cap, stainless steel 'barrel' spring and cable assembly		
Frequency range	4G/3G 825-960MHz & 1710-2190MHz		
Bandwidth	Full frequency range		
VSWR	<1.6:1		
Tuning	Factory		
Gain	6.2dBi at 825-960MHz and 3dBi at 1710-2190MHz		
Maximum power	30 Watts		
Impedance	50 Ohms		
Polarisation	Vertical		
H Plane	360° omni-directional		
E Plane	32°		
Cable	5 metres RG58 low loss - side exit from ferrule		
Connector	FME female fitted to cable		
Height	900mm		
Weight	900grams		
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or ATLM-CH/ATLM-B		
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole		



* not kept as stock, only manufactured on request

NEW

SGDB-BLKR

Medium to Heavy-duty Mobile phone or wireless data
4G/3G 825-960 & 1710-2190


In-stock
Ready to
Ship

The all-black SGDB-BLKR series of super gain mobile phone antennas offer fine performance combined with our robust tried and tested ZCG quality construction.

The SGDB-BLKR antenna is identical in appearance to SG477-BLKR UHF CB Radio 477MHz and SG1100-BLKR AM/FM receive antennas.

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



Specifications	SGDB-BLKR
Construction	Black fibreglass radome, black aluminium ferrule and cap, black stainless steel 'barrel' spring and cable assembly
Frequency range	4G and 3G 825-960MHz & 1710-2190MHz
Bandwidth	Full frequency range
VSWR	<1.6:1
Tuning	Factory
Gain	6.2dBi at 825-960MHz and 3dBi at 1710-2190MHz
Maximum power	30 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
E Plane	32°
Cable	5 metres RG58 low loss - side exit from ferrule
Connector	FME female fitted to cable
Height	900mm
Weight	900grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or ATLM-CH/ATLM-B
Mounting position recommended	As high on your vehicle/ structure as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole



ZN3-SGDB-11

Detachable mobile phone/wireless data improvement

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



Designed for mounting to a medium to large vehicle, the ZN3-SGDB-11 series detachable antenna is your ideal solution for vehicle mounted 4G and 3G network coverage improvement.

The ZN3-SGDB-11 matches the appearance of the rest of ZCG's ZN3-11 series of AM/FM and 477MHz models to keep the aesthetics of your vehicle.

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

Specifications	ZN3-SGDB-11 Series
Colour	Specify Black or White
Construction	Fibreglass radome, detachable aluminium ferrule, 'barrel' spring base and cable assembly
Frequency range	4G and 3G 825-960MHz & 1710-2190MHz
Bandwidth	Full frequency range
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° omni-directional
E Plane	32°
Cable	4.5 metres RG58 low loss - bottom exit from spring
Connector	FME female to cable - for ease of installation
Height	1.2 metres
Weight	925grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Bracket Mounting: GM1, GM2, GM6 or ATLM-CH/B
Mounting position recommended	As high on your vehicle as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole
Installation kit contents	Allen key, PVC cap, 6 cable ties



FME female fitted to cable as standard for ease of installation



BBM-SS



BBMXL-SS



BBKB-B



ATLM-B

ZIR-1626-RC

Vehicle mount or fixed position Satellite Communications
1616-1626MHz


In-stock
Ready to
Ship

The ZIR-1626-RC is specifically designed and manufactured for 1616-1626.5MHz satellite phone communications.

For the best possible performance, clear line of site to the sky without any obstructions is required. Obstructions such as trees, buildings or overhangs will reduce performance.

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



Specifications	ZIR-1626-RC
Construction	Black fibreglass radome, aluminium ferrule and stainless steel 'barrel' spring and cable base
Frequency range	Satellite communications 1616-1626.5MHz
Bandwidth	Full frequency range
Tuning	Factory
VSWR	<2:1
Maximum power	25 Watts
Gain	5 dBi
Impedance	50 Ohms
Polarisation	Right-hand circular
H Plane	-15 to +60°
DC grounding	Yes
Connector	TNC male fitted as standard or specify requirements
Cable	5 metres RG58 low loss - bottom exit from spring
Height	800mm
Weight	2.7kg
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or ATLM-CH/B
Mounting position recommended	As high on your vehicle or structure as possible with clear line of site with sky and no obstructions such as other antennas, trees or infrastructure.



BBM-SS



MRM-SS



BBKB-B



ATLM-B

GID-M70T/M90T Series

Mobile phone/ wireless data improvement elevated feed whip
All networks 4G LTE or Telstra 4G/3G or Optus & Vodafone 4G/3G

In-stock
Ready to
Ship

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

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

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



GID-M90T series



GID-M70T



FME female fitted as standard or specify requirements



GM1



BBM-SS



BBKB-B



MRM-SS



A-6211

GIDM-DB

Ground independent mobile phone and wireless data improvement

4G & 3G 820-960MHz

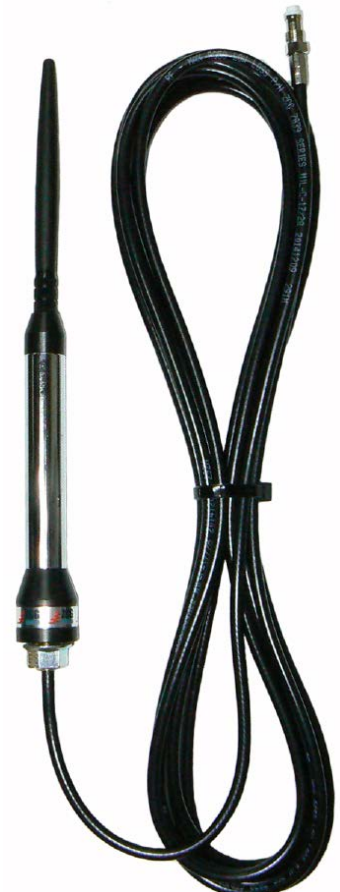
 In-stock
Ready to
Ship



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

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

Specifications	GIDM-DB
Construction	Black moulded whip, stainless steel and black delrin base and coaxial cable assembly
Frequency range	4G & 3G 820-960MHz
Bandwidth	Full frequency range
VSWR	<2.0:1 full frequency range
Tuning	Factory
Gain	2.1dBi
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Vertical
Cable	5 metres RG58 low loss - bottom exits base
Connector	FME female fitted to cable - for ease of installation
Height	270mm
Weight	280grams
Mounting hardware order separate	Secure to any minimum 10mm hole or appropriate bracket with a minimum 10mm hole using the split nut attached such as the GM5
Mounting position recommended	As high on your structure as possible using an appropriate mount hole or bracket



GM1



BBM-SS



BBKB-B



A-6211

GIDM-800

Ground independent mobile phone & wireless data improvement

Telstra 4G/3G 825-890MHz



The GIDM-800 is a ground independent, antenna specifically designed and manufactured for full coverage of the Telstra 4G/3G networks for wireless data and mobile phone improvement.

The GIDM-800 design of a 1/4λ whip, over a 1/4λ elevated feed mimicking a ground plane, results in this antenna being ground independent.

Ideally suited for space critical vehicle mounting or industrial applications.

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



Specifications	GIDM-800
Construction	Black heatshrink whip, stainless steel and black nylon elevated feed base and cable assembly
Frequency range	Telstra 4G/3G 825-890MHz
Bandwidth	Full frequency range
VSWR	<1.6:1
Tuning	Factory
Gain	2.1dBi
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Vertical
Cable	4.5 metres RG58 low loss - bottom exit from base
Connector	FME female fitted to cable as standard or specify
Height	220mm
Weight	280grams
Mounting hardware order separate	Secure to any minimum 10mm hole or appropriate bracket with a minimum 10mm hole using the split nut attached such as the GM5 Just top price: M96T
Mounting position recommended	As high on your structure as possible using an appropriate 16mm mount hole or bracket



FME female fitted to cable as standard or specify requirements

SGLWB series

Light-duty mobile phone improvement & wireless data

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


In-stock
Ready to
Ship

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

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

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



Specifications	SGLWB series
Construction	Specify <u>black</u> or <u>white</u> fibreglass radome, aluminium mount ferrule, parallel spring base and coaxial cable assembly
Frequency range	4G LTE, 4G, 3G and Wireless data 700-960MHz and 1710-2700MHz
Bandwidth	Full frequency ranges
VSWR	<2.5:1
Tuning	Factory
Gain	2.1dBi
Maximum power	10 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	5 metres RG58 low loss - bottom exit from spring base
Connector	FME female fitted to cable as standard or specify requirements
Height	750mm
Weight	560grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6, A-6211 or ATLM
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 16mm hole or appropriate bracket with a 16mm hole



SGLDB

Light-duty mobile phone & wireless data improvement

All networks 4G/3G 825-960 & 1710-2190MHz

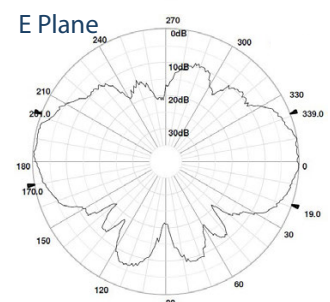
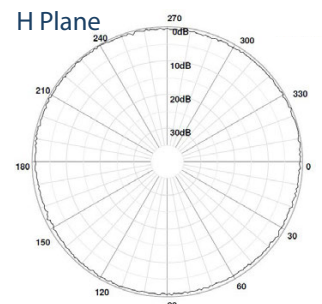


The SGLDB series of super gain, lightweight mobile phone network antenna offers fine performance combined with our robust tried and tested ZCG quality construction.

The SGLDB series are identical in appearance to the SGL477 UHF CB 477MHz and SGL1100 AM/FM radio receive.

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

Specifications	SGLDB
Construction	Black or White fibreglass radome, aluminium mount ferrule, parallel spring base and coaxial cable assembly
Frequency range	4G and 3G 825-960MHz and 1710-2190MHz
Bandwidth	Full frequency range
VSWR	<1.6:1
Tuning	Factory
Gain	6.2dBi 825-960MHz and 3dBi 1710-2190MHz
Maximum power	30 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional
Cable	5 metres RG58 low loss - bottom exit from spring base
Connector	FME female fitted to cable - for ease of installation
Height	750mm
Weight	650grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6, A-6211 or ATLM
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 16mm hole or appropriate bracket with a 16mm hole



BBM-SS

MRM-SS

ATLM-B

BBKB-B

NEW

SGLDB-BLKR

Lightweight mobile phone & wireless data improvement

All networks 4G/3G 825-960 & 1710-2190MHz



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

The SGLDB-BLKR is identical in appearance to the SGL477-BLKR UHF CB 477MHz and SGL1100-BLKR AM/FM radio receive.

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



Specifications	SGLDB-BLKR
Construction	Black fibreglass radome, black aluminium mount ferrule, black stainless steel parallel spring and cable assembly
Frequency range	4G and 3G 825-960MHz & 1710-2190MHz
Bandwidth	Full frequency range
VSWR	<1.6:1
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
Cable	5 metres RG58 low loss - bottom exit from spring base
Connector	FME female fitted to cable - for ease of installation
Height	750mm
Weight	650grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBM XL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6, A-6211 or ATLM
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 16mm hole or appropriate bracket with a 16mm hole



BBM-SS



MRM-SS



ATLM-B



BBKB-B

SGL2000 Series

Mobile phone/wireless data improvement

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



The SGL2000 series are specifically designed for 4G & 3G upper on all networks, and offers consistent and dependable performance with maximum efficiency, particularly where signal strength is poor.

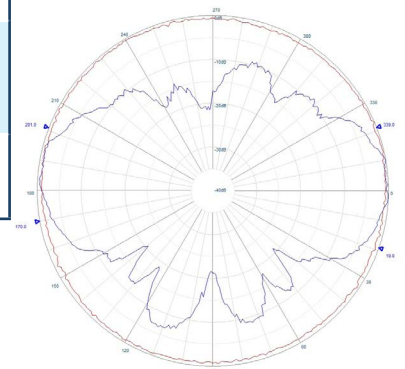
Mounting hardware, adaptors, alternative connectors and other installation accessories are all available separately.



Specifications	SGL2000
Colours available	Black: SGL2000-B, White: SGL2000-W, Brown: on request
Construction	Coloured fibreglass radome, aluminium ferrule and cap, stainless steel parallel spring and cable assembly
Frequency range	All networks 4G/3G upper 1920-2170MHz
Bandwidth	Full frequency range
VSWR	<1.6:1
Tuning	Factory
Gain	6.2dBi
Maximum Power	30 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360 omni-directional
Cable	5 metres RG58 low loss - bottom exit from spring
Connector	FME female - supplied, not fitted
Height	480mm
Weight	600grams
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6, A-6211 or ATLM
Mounting position recommended	As high on your vehicle/structure as possible using a minimum 16mm hole or appropriate bracket with a 16mm hole



FME female supplied, not fitted



Sample radiation pattern



BBM-SS



MRM-SS



ATLM-B



BBKB-B

Antenna Brackets & Springs



Page 1 of 4

This selection of stainless steel brackets are available to stud mount antennas in various positions.

These brackets are mostly used to mount onto your vehicle, they can also be useful for fixing antennas to buildings or fascia boards.

Each bracket has a 13, 16 or 17mm diameter hole through which the antenna is secured.



16mm hole

GM1

- 'L' Bracket for Guard mount
- 1.6mm stainless steel
- 2 holes for screws/bolts
- Also suits fascia board



16mm hole

GM2

- 'Z' Bracket for guard mount
- 1.6mm stainless steel
- 2 drilled holes for screws
- 1 drilled hole for bolt/stud



22mm hole

GM3

- 'L' Bracket for guard mount
- 1.6mm stainless steel
- 2 drilled holes for screws
- 1 drilled hole for bolt/stud



13mm slot

GM5

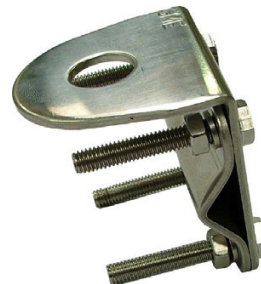
- Slotted 'L' bracket
- 0.7mm stainless steel
- 3 holes for screws/bolts
- Suits light stud mount



16mm slot

GM6

- Slotted 'L' bracket
- 0.7mm stainless steel
- 3 holes for screws/bolts
- Suits light stud mount



16mm hole

MRM-SS

- Bracket for mirror/pole
- 20mm diameter tube max.
- All stainless steel
- Includes bolts/nuts/washers



17mm hole

ATLM-CH

- Rotating/tilt bracket
- Zinc alloy
- 225grams
- Suits bonnet/door/boot



17mm hole

ATLM-B

- Rotating/tilt bracket
- Black powdercoated stainless steel
- 225grams
- Suits bonnet/door/boot

Antenna Brackets & Springs



Page 2 of 4

This selection of black knock-down and stainless steel bull bar mounting brackets are available ranging from a small diameter bull bar, up to a large diameter bull bar.

Each bracket has a 16mm diameter hole through which the antenna is secured.

NEW



17mm hole

BBKB-B

Rhino-rack knock-down bracket

Adjustable tilt capability

Black powdercoat

Includes mounting hardware



16mm hole

BBM-SS

Standard bracket for bull bar

50mm diameter tube max.

304 stainless steel

Includes U-bolts/nuts/washers



16mm hole

BBML-SS

Medium bracket for bull bar

65mm diameter tube max.

304 stainless steel

Includes U-bolts/nuts/washers



16mm hole

BBMXL-SS

Large bracket for bull bar

76mm diameter tube max.

All Stainless Steel

Includes U-bolts/nuts/washers

Antenna Brackets & Springs



Page 3 of 4

1269



The '1269' electro-polished stainless steel barrel spring has been used successfully on our popular SG range of antennas for decades.

105mm tall x 45mm diameter

1/2"-12 BSW thread both ends

Includes a 1/2"-12 BSW bolt and spring washer

1269-7



The '1269-7' electro-polished stainless steel barrel spring has been used successfully on our popular SG range of antennas for decades.

105mm tall x 45mm diameter

M10 thread in top M12 stud in base

Includes a M12 stud and split nut

1270



The '1270' heavy duty stainless steel parallel spring is ideal for mounting very tall antennas to a vehicle bull bar. Highly recommended for tough/rough terrain.

105mm tall x 45mm diameter

1/2"-12 BSW thread both ends

Includes a 1/2"-12 BSW bolt and spring washer

1570



The 1570 stainless steel spring allows the antenna cable to pass through the centre of the spring and exit through the base.

50mm tall x 20mm diameter

M10 thread both ends suitable for GRHFC/GID-M90T/M70T

5/16"-26 TPI male and female threads

Antenna Brackets & Springs



Page 4 of 4

MS Base



The 'MS Base' medium duty stainless steel spring will suit and mobile whip being mounted on our OB-2 antenna base.

60mm tall x 20mm diameter

5/16"-24 TPI male and female threads

ZN Base



The ZN Base cable assembly suits any ZCG ZN3 series UHF male terminated antenna, suitable for light-duty installation either fixed or mobile.

67mm base height

Top mount UHF female connector

10 metres RG58 A/U MIL-SPEC stranded

SMA male fitted - or specify requirements

7/8" nut and toothed washer supplied

ZN3-SB-S



The ZN3-SB-S stainless steel barrel spring base and cable assembly are suited for the ZN3-77-10 medium duty UHF CB radio antenna.

153mm tall x 55mm diameter

Top mount UHF female connector

4.5 metre RG58 low loss cable

1/2"-12 BSW thread

Includes 1/2"-12 BSW stud and split nut

Install Kit - 3mm allen key, PVC cap, solder, UHF male connector and 8 cable ties

ZN3-SB-L



The ZN3-SB-L heavy duty stainless steel barrel spring base and cable assembly are suited for models such as the ZN3-77-11 or ZN3-77-12 CB radio antennas.

165mm tall x 20mm diameter

Top mount UHF female connector

4.5 metre RG58 low loss cable

1/2"-12 BSW thread

Includes 1/2"-12 BSW stud and split nut

Install Kit - 3mm allen key, PVC cap, solder, UHF male connector and 8 cable ties

OG800

Adhesive mount on-glass mobile phone/wireless data whip

All networks lower 4G, 3G and 2G/GSM 824-960MHz



Small and unobtrusive, an on-glass mobile phone/wireless data improvement antenna is a discreet alternative to other exterior bracket mounted antennas.

With an easy peel and place of the adhesive pads, installation of the OG800 is simple and secure. Ensure the glass surface is clean prior to installation.

Adaptors, and other installation accessories are all available separately.



Specifications	OG800
Construction	Black whip, black moulded adhesive base
Frequency range	All available networks lower 4G, 3G and 2G/GSM 824-960MHz
Bandwidth	Full frequency range
VSWR	<2:1 across
Tuning	Factory
Gain	5dBi
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Vertical
Connector	FME female fitted both ends of cable
Cable assembly	4 metres RG58 low loss
Whip height - incl base	220mm
Weight	250grams
Mounting hardware	Adhesive pad on radiating boxes
Mounting position requirements	Interior & exterior of windscreen or rear window glass of vehicle where tint/heating elements or metallic flakes are not present.
Installation Kit Contents	Alcohol wipe and adhesive pads



Adhesive pivot mount



Coupling box

FME female termination on cable

OG835

Adhesive on-glass mobile phone/wireless data improvement

All networks 4G/3G 825-960 & 1710-2190MHz



Small and unobtrusive, an on-glass mobile phone/wireless data improvement antenna is a discreet alternative to other exterior bracket mounted antennas.

With an easy peel and place of the adhesive pads, installation of the OG835 is simple and secure. Ensure the glass surface is clean prior to installation.

Adaptors, and other installation accessories are all available separately.

Specifications	OG835
Construction	Black moulded whip, black moulded adhesive base, internal coupling box and cable assembly
Frequency range	Telstra, Optus & Vodafone 4G and 3G 824-960MHz & 1710-2190MHz
Bandwidth	Full frequency ranges
VSWR	<2:1
Tuning	Factory
Gain	7.2dBi
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Vertical
Connectors	Termination box: Mini UHF female Termination box cable: Mini UHF male Cable Termination: FME female
Cable assembly	4 metres RG58 low loss
Whip height - incl. base	395mm
Weight	250grams
Mounting hardware	Adhesive pad on radiating boxes
Mounting position requirements	Interior & exterior of windscreen or rear window glass of vehicle where tint/heating elements or metallic flakes are not present.
Installation Kit Contents	2 x whips, adhesive whip mount, adhesive coupler, adaptor and alcohol wipe



OG-PH-33F-7

Adhesive on-glass dual whip mobile phone/wireless data improvement
All networks 4G/3G 824-960MHz & 1710-2190MHz

 In-stock
Ready to
Ship

Small and unobtrusive, an on-glass mobile phone/wireless data improvement antenna is a discreet alternative to other exterior bracket mounted antennas.

With an easy peel and place of the adhesive pads, installation of the OG-PH-33F-7 is simple and secure. Ensure the glass surface is clean prior to installation.

Adaptors, and other installation accessories are all available separately.

Specifications	OG-PH-33F-7	
Construction	2 x black moulded whip, black moulded adhesive base, internal coupling box and cable assembly	
Frequency range	Telstra, Optus & Vodafone 4G and 3G 824-960MHz & 1710-2190MHz	
Bandwidth	Full frequency range	
VSWR	<2:1	
Tuning	Factory	
Gain	Small whip: 3dBi	Long whip: 5dBi
Maximum power	10 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
Connectors	FME female fitted as standard to cable - both ends	
Adaptor supplied	FME male to Mini-UHF male	
Cable assembly	4 metres RG58 low loss	
Whip height - incl. base	Small Whip: 170mm	Long Whip: 380mm
Weight	250grams	
Mounting hardware	Adhesive pad on radiating boxes	
Mounting position requirements	Interior & exterior of windscreen or rear window glass of vehicle where tint/heating elements or metallic flakes are not present.	
Installation kit contents	2 x whips, adhesive whip mount, adhesive coupler, adaptor and alcohol wipe	



OG8-TB

Adhesive on-glass mobile phone/wireless data improvement

All networks 4G and 3G 824-960MHz & 1710-2170MHz



Small and unobtrusive, an on-glass mobile phone/wireless data improvement antenna is a discreet alternative to other exterior bracket mounted antennas.

With an easy peel and place of the adhesive pads, installation of the OG8-TB is simple and secure. Ensure the glass surface is clean prior to installation.

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



Specifications	OG8-TB
Construction	Black whip, black moulded radiating base and adjustable whip base
Frequency range	All available networks 4G, 3G and 2G/GSM 824-960MHz, 1710-1990MHz & 2170MHz
Bandwidth	Full frequency ranges
VSWR	<2:0
Tuning	Factory
Gain	5dBi
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Vertical
Cable set - supplied	5 metres RG58 A/U
Connector	SMA male - input junction box, FME female - device input
Height	180mm
Weight	250grams
Mounting requirements	Adhesive pad on radiating boxes. <u>Ensure 90° offset of interior radiating box.</u>
Mounting position recommended	Interior & exterior of windscreen or rear window glass of vehicle where tint/heating elements or metallic flakes are not present.
Installation kit contents	Alcohol wipe and adhesive pads



90° offset of whip and interior base



FME female device input

Please Note: Interior panel must be offset 90° of exterior whip panel.

OGI-08 series

Interior on-glass mobile phone/wireless data improvement

All networks 4G and 3G and WiFi 2.4GHz


In-stock
Ready to
Ship

This OGI-08 series of interior on-glass antenna sticks to the inside of a vehicle windscreen and will improve mobile phone and wireless data reception while travelling.

The low profile design of the OGI-08 series is ideal when discretion and unobtrusiveness is required or windscreen/rear window space is at a premium.

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



Specifications	OGI-08-4
Construction	Black moulded cover and external cable tail
Frequency range	Telstra, Optus & Vodafone 4G/3G 825-960MHz & 1710-2190MHz
Bandwidth	Full frequency range
VSWR	<2:1
Tuning	Factory
Gain	2.1 dBi
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Vertical
Cable	3.0 metres RG174A/U side exit from patch antenna
Connector - fitted	SMA male
Adaptor - supplied	FME female to SMA female
Operating temperature	-20°C to +60°C
Dimensions	115mm long x 21mm wide x 7mm thick
Weight	5 grams
Mounting hardware	Adhesive pad on rear of antenna
Mounting position recommended	As high on the interior windscreen or rear window glass of vehicle
Mounting requirements	No tint/heating elements or metallic flakes present, these will cause dramatic/total signal reduction.



OGI-08-4



SMA female to FME female adaptor
supplied

OGI-EPH401

Adhesive on-glass mobile phone/wireless data improvement
4G LTE, 4G, 3G and WiFi 700-960MHz & 1710-2600MHz


In-stock
Ready to
Ship

This OGI-EPH401 on-glass antenna sticks to the inside of a vehicle windscreen and will improve mobile phone and wireless data reception while travelling. The low profile design of the OGI-EPH401 is ideal when discretion and un-obtrusiveness is required or windscreen/rear window space is at a premium.

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



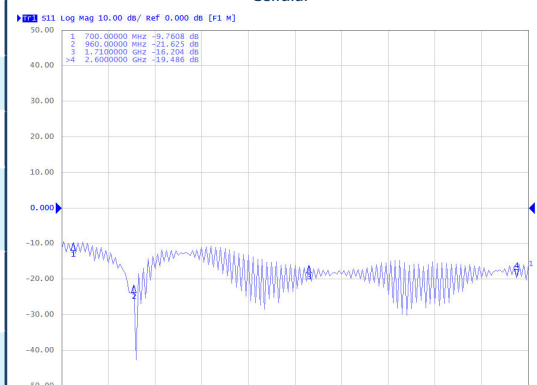
Specifications	OGI-EPH401
Construction	Moulded ABS black cover, rear adhesive mount, external cable tail and termination
Frequency range	4G LTE, 4G, 3G and WiFi 700-960MHz & 1710-2600MHz
Bandwidth	Full frequency range
VSWR	<2.0:1
Tuning	Factory
Gain	1.5dBi
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	360° omni-directional
Wave	1/2 λ (wave) dipole
Connector - fitted	Fakra Type D - Bordeaux violet - Cellular
Cable	5 metres RG174A/U exits from base of antenna
Dimensions	103.5mm long x 10.6mm wide x 4.5mm thick
Weight	45grams including cable
Operating temperature	-40°C to +80°C
Storage temperature	-40°C to +80°C
Mounting hardware	Adhesive pad on rear of antenna
Mounting position recommended	As high on the interior windscreen or rear window glass of vehicle
Mounting requirements	No tint/heating elements or metallic flakes present, these will cause dramatic/total signal reduction.
Waterproof rating	IP67



Adhesive pad on underside of antenna



Fakra Type D Bordeaux Violet
- Cellular



[Radiation patterns on following page.](#)

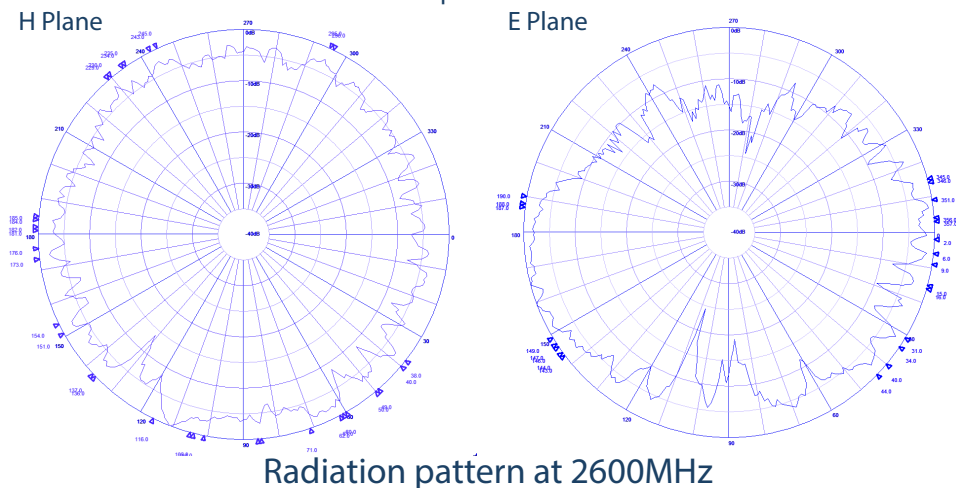
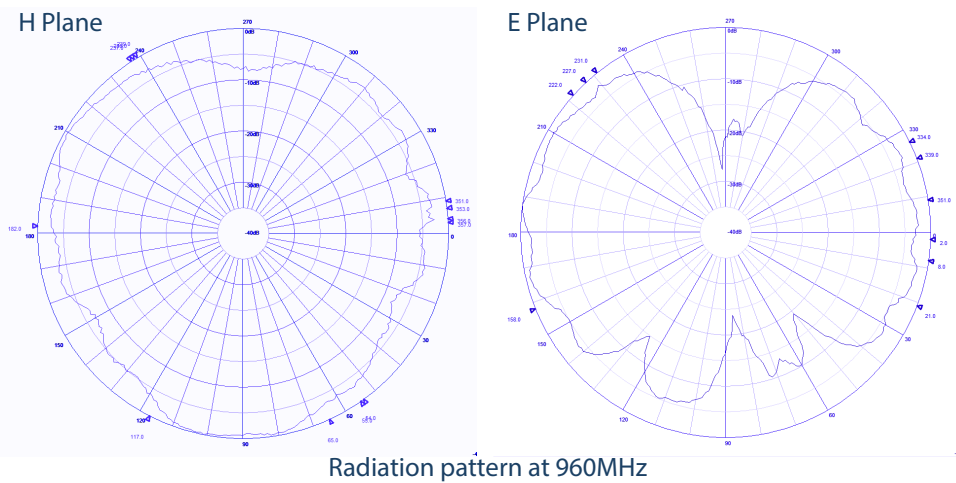
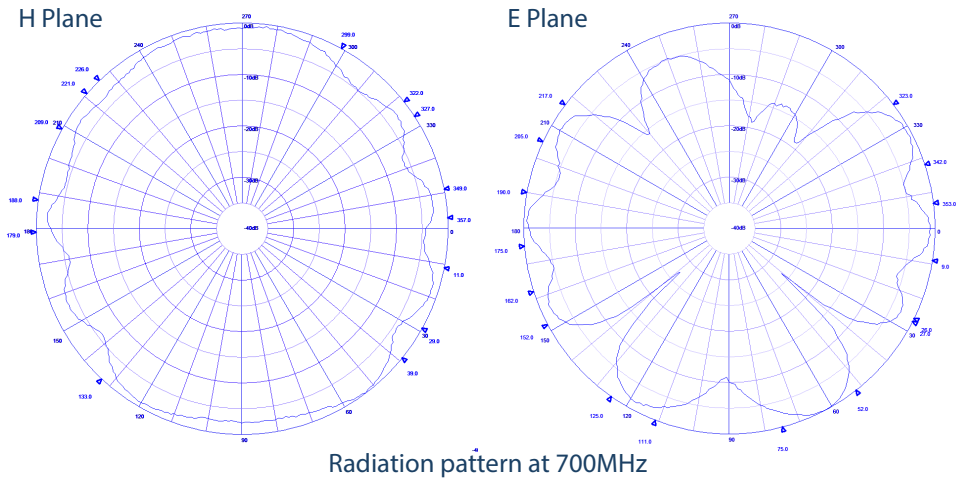
OGI-EPH401

Adhesive on-glass mobile phone/wireless data improvement

4G LTE, 4G, 3G and WiFi 700-960MHz & 1710-2600MHz



In-stock
Ready to
Ship



MAG-CELL-DB series

Magnetic base mobile phone/wireless data improvement

4G LTE, 4G and 3G 700-890MHz & 1710-2190MHz



In-stock
Ready to
Ship

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

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

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

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



MAG-CELL-DB



MAG-CELL-DB-2

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

MAG-M90T series

Magnetic base mobile phone/wireless data improvement

Telstra 4G/3G or Optus & Vodafone 4G/3G



The MAG-M90T series of detachable magnetic base phased coil whip antennas will enhance the reception of your mobile phone or wireless data device.

The MAG-M90T series are easy to set-up, easy to remove and the detachable whip makes the antenna easy to store when not required or for short-term installation such as a hire car.

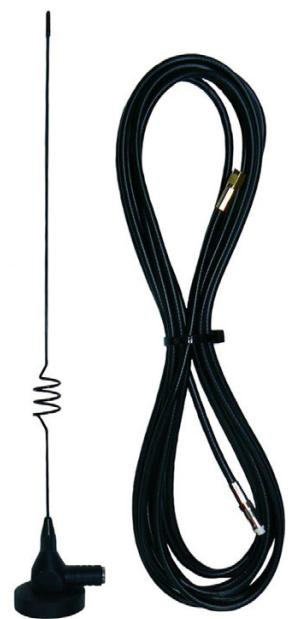
Alternate connectors, adaptors and other installation accessories are all available separately.



Specifications	MAG-M90T800	MAG-M90T900
Construction	Black stainless steel whip, moulded magnetic base, detachable external cable assembly and termination	
Frequency range	Telstra 4G/3G 825-890MHz	Optus & Vodafone 4G/3G 890-960MHz
Bandwidth	Full frequency range selected	
VSWR	<1.5:1	
Tuning	Factory	
Gain - nominal	5dBi	
Maximum power	5 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
Connector - fitted	Magnetic base: FME male Magnetic base cable: FME female Cable termination: SMA male or specify requirements	
Cable assembly - supplied	5 metres RG58 low loss - detachable	
Height	325mm	325mm
Weight	60grams	60grams
Mounting position recommended	As high on your vehicle or structure on any flat magnetic metal surface	



MAG-M90T800
Telstra 4G/3G



MAG-M90T900
Optus & Vodafone 4G/3G



Magnetic base with FME male termination and M6 thread



SMA male termination as standard or specify requirements



FME female for magnetic base termination

Whips, bases and cable sets

Telstra 4G/3G or Optus & Vodafone 4G/3G

Page 1 of 2

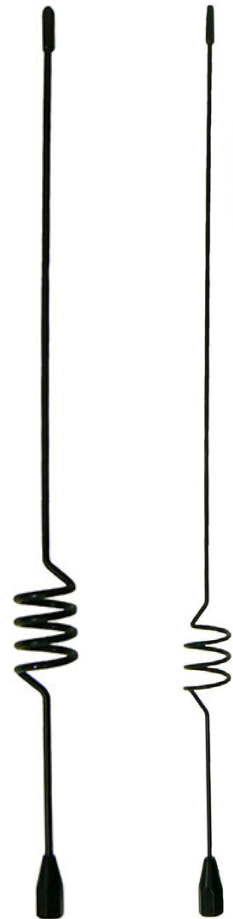


For reception improvement of a mobile phone or wireless data device, a phased whip may be fitted to a base and then mounted in a variety of locations, either fixed position or vehicle mounted.

For best results mount the phased coil whips and base onto a metallic surface to act as a radiating ground plane.

The M90T series of whips are also replacement tops for GID-M90T series or MAG-M90T series.

Specifications	M90T-NextG	M90T-GSM
Construction	Black chrome stainless steel phased coil whip	
Frequency range	Telstra 4G/3G 825-890MHz	Optus & Vodafone 4G/3G 890-960MHz
Bandwidth	Full selected frequency range	
H Plane	360° omni-directional	
Gain	5.1dBi	
Height	300mm	
Mount ferrule thread	6mm female - internal	



Specifications	XB-Base
Construction	Black moulded base, brass components and rubber gasket - no cable
Antenna Compatibility	M90T-NextG or M90T-GSM
Mount ferrule thread	6mm male - external



Suitable mount base with cable assemblies on following page.

Whips, bases and cable sets

Telstra 4G/3G or Optus & Vodafone 4G/3G

Page 2 of 2



Specifications	XB-4.7
Construction	Black moulded base with cable
Cable	4.7 metres RG58 low loss
Connector	Specify when ordering
Antenna compatibility	M90T-NextG or M90T-GSM
Mount ferrule thread	6mm male - external
Pre-terminated models available	
XB4.7-BNC	4.7m RG58, BNC male fitted
XB4.7-FME	4.7m RG58, FME female fitted
XB4.7-TNC	4.7m RG58, TNC male fitted



Specifications	MGB-XB Mounting Base
Construction	Black magnetic base with cable
Cable	4.7 metres RG58 low loss
Connector	None supplied, specify when ordering
Dimensions	105mm base diameter
Antenna compatibility	M90T-NextG or M90T-GSM
Mount ferrule thread	6mm male - external



ZCG-EEH-L01

Low profile mobile phone/Wireless data/ Telemetry applications

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


In-stock
Ready to
Ship

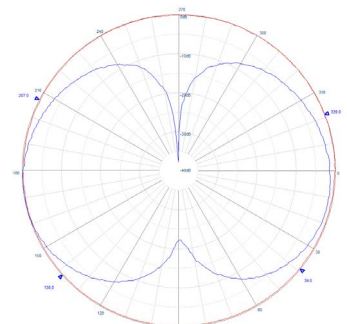
Ideal applications for the ZCG-EEH-L01 are:

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

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



Specifications	ZCG-EEH-L01
Construction	Black radome, rubber gasket and chrome termination
Frequency range	4G LTE, 4G, 3G, WiFi and ISM2.4: 704-960 & 1710-2690MHz
Bandwidth	Full frequency range
VSWR	<2.7:1
Tuning	Factory
Gain	2.1dBi at 704-960MHz and 2.75dBi at 1710-2690MHz
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Linear, Vertical
Connector	N-type female bulkhead in base with 12mm thread - no cable
Operating temperature	-40°C to +80°C
Storage temperature	-40°C to +85°C
Dimensions	Diameter: 42mm, Height: 75.6mm
Weight	121grams
Mounting hardware order separate	Use suitable bracket/hole with a 16mm hole such as BBM-SS, MRM-SS, GM1 or GM6, using the rubber gasket, toothed washer and hex nut supplied
Mounting position recommended	Mount as high on vehicle/structure as possible using appropriate bracket or mount hole.
Waterproof rating	IP67



BBM-SS



MRM-SS



GM1



A-6211 - fixed
mounting

ZCG-EEH-L01 sample radiation pattern at 960MHz

ZCG-EEH-L01FC

Fixed Cable omni-directional low profile Antenna

4G LTE, 4G, 3G and WiFi 698-960MHz & 1710-2690MHz

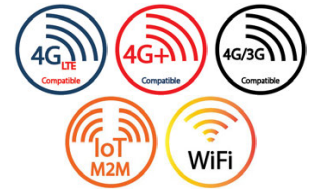


The ZCG-EEH-L01FC fixed cable low profile antenna will improve mobile phone device reception and transmission range. Being an enclosed unit, the internals are weatherproofed to ensure a long service life.

Ideal applications for the ZCG-EEH-L01FC are:

- Data communication
- Wireless monitoring
- M2M/LoRa or IoT applications
- All networks mobile phone/wireless data improvement

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



ZCG-EEH-L01FC



FME female fitted as standard or specify requirements



ZCG-EEH-L01-SMA



SMA male fitted as standard with red identification



Cable exit from bottom of antenna through threaded mount.

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

ZCG-EEH-L01-NC

Fixed cable omni-directional low profile Antenna
4G LTE, 4G, 3G and WiFi 698-960MHz & 1710-2690MHz

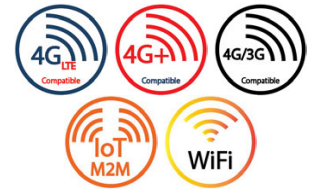


The ZCG-EEH-L01FC fixed cable low profile antenna will improve mobile phone device reception and transmission range. Being an enclosed unit, the internals are weatherproofed to ensure a long service life.

Ideal applications for the ZCG-EEH-L01FC are:

- Data communication
- Wireless monitoring
- M2M/LoRa or IoT applications
- All networks mobile phone/wireless data improvement

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

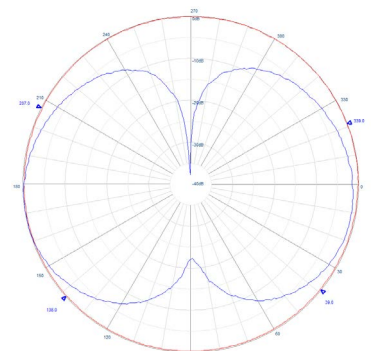


ZCG-EEH-L01-NC

Please note: no termination



Cable exit from bottom of antenna through threaded mount.



Sample radiation pattern

Specifications	ZCG-EEH-L01-NC
Construction	Black radome, rubber gasket, chrome fittings and external cable
Frequency range	4G LTE, 4G, 3G & WiFi 704-960MHz & 1710-2690MHz
Bandwidth	Full frequency ranges
VSWR	<1.8:1
Tuning	Factory
Gain	2.1dBi - average, 2.75dBi peak
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Linear - vertical
Cable	4.0m x RG58 bottom exit or specify requirements
Connector	<u>No termination</u> supplied, order separate
Operating temperature	-40°C to +80°C
Storage temperature	-40°C to +85°C
Dimensions	42mm diameter x 75.6mm height
Weight	121grams
Mounting hardware	13.4mm mounting thread ,Rubber gasket, toothed washer and nut - supplied

ZCG-EEH-201

Fixed cable low profile antenna

WiFi 2.4-2.485GHz & 5.15-5.85GHz



The ZCG-EEH-201 fixed cable low profile antenna will improve WiFi coverage reception and transmission range. Being an enclosed unit, the internals are weatherproofed to IP67 to ensure a long service life.

Unique specifications for the ZCG-EEH-201 are:

- WiFi data communication
- Dual band at both 2.4 and 5.8GHz
- Rugged design
- Ground independent

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



Specifications	ZCG-EEH-201
Construction	Black ASA radome, chrome fittings and cable assembly
Frequency range	WiFi/WLAN 2.4-2.485GHz and 5.15-5.85GHz
Bandwidth	Dual band
VSWR	<2.0:1 across full bands
Tuning	Factory
Gain	4.0dBi peak
Maximum power	5 Watts
Impedance	50 Ohms
Polarisation	Linear, Vertical
Cable	3m x RG58 bottom exit - or specify length requirements
Connector	No connector fitted as standard, specify when ordering
Operating temperature	-40°C to +80°C
Storage temperature	-40°C to +85°C
Dimensions	Diameter: 41.5mm, Height: 78.4mm
Weight	85grams
Mounting hardware	10.5mm mounting thread, rubber gasket, washer and nut supplied
Rating	IP67 / RoHS compliant



Cable exits through mounting thread



Rubber gasket and mounting hardware supplied

CT800 and CT900

Low profile ruggedised antenna
Telstra 4G/3G or Optus & Vodafone 4G/3G



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



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

Applications suited for these antennas are:

- Trains/Trams
- Buses/Trucks
- Forklifts
- Tractors
- Forestry Vehicles
- Logging Trucks
- Police
- Ambulance
- Fire Brigade
- Military Vehicles
- Security Services
- Mining Vehicles



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

CT800-RD Series

Low profile and rugged

Telstra 4G/3G 825-890MHz and GPS 1575.42MHz



If you require a mobile phone or wireless data network with an internal GPS antenna, which is small, inconspicuous and virtually indestructible, then the CT800-RD series of radome enclosed Telstra 4G/3G and GPS antenna is your ideal solution.

Applications suited for these antennas are:

- Trains/Trams
- Buses/Trucks
- Forklifts
- Tractors
- Forestry Vehicles
- Logging Trucks
- Police
- Ambulance
- Fire Brigade
- Military Vehicles
- Security Services
- Mining Vehicles



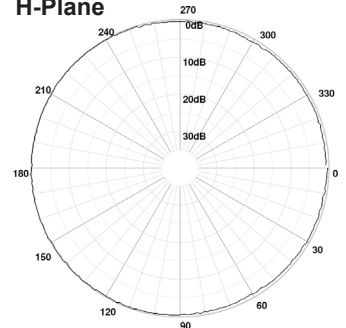
CT800-RD



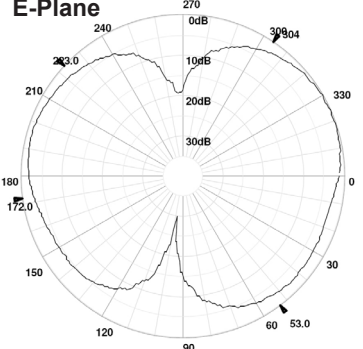
CT800-RD-GPS

Specifications	CT800-RD	CT800-RD-GPS
Construction	White HIPS (high impact polystyrene) radome, aluminium mount plate and chrome termination. GPS model has internal GPS module with external cable	
Frequency Range	Telstra 4G/3G: 825-890MHz	Telstra 4G/3G: 825-890MHz GPS: 1575.42MHz
Bandwidth	Full selected frequency range/s	
VSWR	<1.6:1 full mobile phone frequency	
Tuning	Factory	
Gain (nominal)	2.1dBi	
Maximum Power	5 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	Near 360° omni-directional	
E Plane	Same as a normal 1/4 λ (wave) whip	
Connector - fitted	3G/4G: N-type female in base of antenna - no cable GPS: 5.0m RG174A/U with SMA male - rear exit from antenna	
Dimensions	Length: 190mm; Width: 70mm; Height: 90mm	
Weight	150grams	160grams
Mounting hardware supplied	4 x M6 x 20mm stainless steel bolts/nuts/washers	
Minimum ground plane	Ground plane is base plate of antenna	

H-Plane



E-Plane



CT900-RD Series

Low profile and rugged

Optus & Vodafone 4G/3G 825-890MHz and GPS 1575.42MHz



If you require a mobile phone or wireless data network with an internal GPS antenna, which is small, inconspicuous and virtually indestructible, then the CT900-RD series of radome enclosed Optus & Vodafone 4G/3G and GPS antenna is your ideal solution.



Applications suited for these antennas are:

- Trains/Trams
- Buses
- Forklifts
- Tractors
- Forestry Vehicles
- Logging Trucks
- Police
- Ambulance
- Fire Brigade
- Military Vehicles
- Security Services
- Mining Vehicles

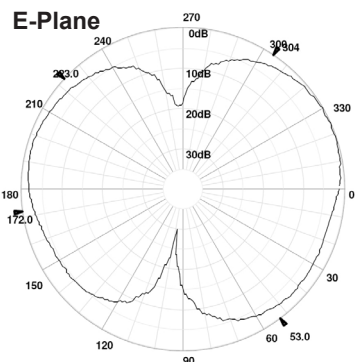
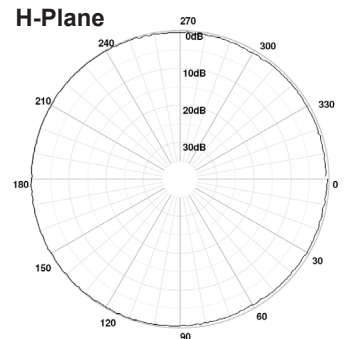


CT800-RD



CT800-RD-GPS

Specifications	CT900-RD	CT900-RD-GPS
Construction	White HIPS (high impact polystyrene) radome, aluminium mount plate and chrome termination. GPS model has internal GPS module with external cable	
Frequency range	Optus & Vodafone 4G/3G: 825-890MHz	Optus & Vodafone 4G/3G: 825-890MHz GPS: 1575.42MHz
Bandwidth	Full selected frequency range/s	
VSWR	<1.6:1 full mobile phone frequency	
Tuning	Factory	
Gain - nominal	2.1dBi	
Maximum power	5 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	Near 360° omni-directional	
E Plane	Same as a normal 1/4 λ (wave) whip	
Connector	3G/4G: N-type female in base of antenna - no cable GPS: 5.0m RG174A/U with SMA male - rear exit from antenna	
Dimensions	Length: 190mm; Width: 70mm; Height: 90mm	
Weight	150grams	160grams
Mounting hardware	4 x M6 x 20mm stainless steel bolts/nuts/washers - supplied	
Minimum ground plane	Ground plane is base plate of antenna	



GCFRA and GCT

Mobile phone/wireless data/WiFi and L1 GPS

Page 1 of 2



The GCT low profile all-in-one antenna will improve reception for all mobile phone/wireless data networks and GPS.

The GCFRA low profile all-in-one antenna will improve mobile phone/ wireless data, GPS and WiFi reception.

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



GCFRA
Mobile Phone, GPS & WiFi

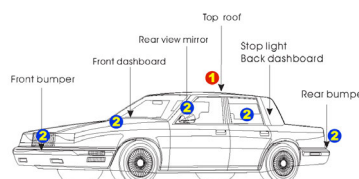
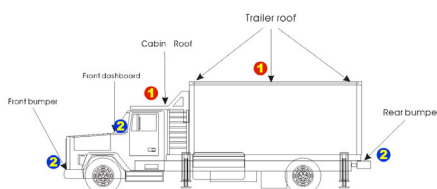
Specifications	GCFRA	GCT
Construction	Cream ABS polycarbonate radome	
Mobile phone coverage	Telstra, Optus & Vodafone 4G and 3G 825-960MHz & 1710-2190MHz	
GPS frequency	L1 GPS 1575.42MHz	
WiFi ability	Yes 2.4GHz	No
Tuning	Factory	
Impedance	50 Ohms	
H Plane	360° omni-directional	
Weight	280grams	
Dimensions	Diameter: 100mm, Height: 39mm	
Cable	3 x 5 metre RG174/U	1 x 5 metre RG174/U 1 x 5 metre RG58/AU
Connector - fitted	3 x SMA male	2 x SMA male
Mounting requirements	Any bracket or flat surface with 20mm hole using cream ABS nut and attached rubber gasket supplied	
Mounting position (recommended)	As high on your vehicle/structure as possible using a minimum 20mm hole or bracket with 20mm hole.	



GCT
Mobile Phone & GPS

Detailed specifications on next page...

1 indicates an ideal location for best omnidirectional performance



GCFRA and GCT

Mobile phone/wireless data/WiFi and GPS

Page 2 of 2



Mobile Phone Antenna		GCFRA and GCT			
Frequency coverage		Telstra, Optus & Vodafone 4G and 3G 825-960MHz and 1710-2170MHz			
Tuning and VSWR		Factory tuned to <2:1 across entire frequency			
Impedance		50 Ohms			
Pattern		360° omni-directional			
Maximum power		25 Watts			
GPS Active Patch Antenna		GCFRA and GCT			
Frequency coverage		L1 GPS 1575.42MHz ± 3MHz			
Tuning and VSWR		Factory tuned to 1.5:1 minimum			
Bandwidth		20MHz minimum at -10dB			
Axial ratio		3 dB typical			
Impedance		50 Ohms			
Peak gain		4 dBic minimum - on a 7cm x 7cm ground plane			
Polarisation		Right-hand circular			
Amp. Module	Amp. Gain	Noise Figure	Output VSWR	DC Voltage	DC Current
Type A. Type B.	27 dB Typical	1.4 dB typical 1.4 db typical	2.0 maximum	3.0 V - 5.5 V 2.7 V - 6.0 V	22 ± 5 mA 8.5 ± 4.5 mA
WiFi Antenna		GCFRA - GCT not supported			
Frequency coverage		WiFi/WLAN 2.4-2.4835GHz			
Tuning and VSWR		Factory tuned to <2:1 across specified frequency			
Impedance		50 Ohms			
Pattern		360° omni-directional			
Maximum power		25 Watts			

ZAW-9-LTE

Upgraded

Low profile radome enclosed antenna - M.I.M.O. capable
L1 GPS/GLONASS, 4G LTE/4G/3G and WiFi/WLAN



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

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



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

ZAW-CELL-4G

Low profile 'hockey puck' magnetic mount antenna
4G LTE, 4G, 3G & 2G 698-960MHz & 1710-2690MHz



The ZAW-CELL-4G is designed and manufactured for all networks 4G LTE, 4G, 3G & 2G applications on mounting onto a vehicle or fixed location suitable for mobile phone signal improvement or wireless data transfer all within a low profile construction. The ZAW-CELL-4G incorporates an internal PCB design to achieve a low profile and effective performance. Suitable for portable ATM's, meter boxes, vehicles or any situation where a low profile is required.

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



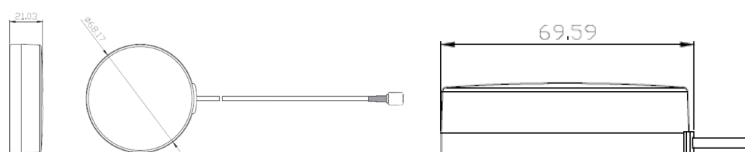
Specifications	ZAW-CELL-4G
Construction	Black ABS radome, bottom magnetic mount, external cable assembly and termination - can be supplied with 3M adhesive mounting
Frequency range	4G LTE, 4G, 3G & 2G/GSM 698-960MHz & 1710-2690MHz
Bandwidth	Full frequency range
Peak Gain	-0.7dB at 698-960MHz & 5.5dB at 1710-2690MHz
Polarisation	Linear
VSWR	<3.0:1
Impedance	50 Ohm
Maximum power	5 Watts
Connector	TNC male as standard or specify requirements
Cable	1 x 3.0m RG174A/U - side exit from radome
Dimensions	Diameter: 69.6mm, Height: 21mm
Weight	90grams
Operating temperature	-35°C to +85°C
Storage temperature	-40°C to +90°C
Mounting	Ensure mounting surface is magnetic/metallic, clean and free from debris.



ZAW-CELL-4G with single cable, side exit from radome



TNC male fitted to cable as standard or specify requirements



ZAW-WiFi-4G

Low profile magnetic mount 'Hockey puck' antenna

4G LTE, 4G, 3G, 2G/GSM and WiFi 698-960 & 1710-2690MHz



The ZAW-WiFi-4G is designed and manufactured for 4G LTE/4G/3G, WiFi and GPS/GLONASS applications such as vehicle tracking or data transfer all within a magnetic mount low profile construction. The ZAW-WiFi-4G incorporates an internal LNA (low noise amplifier) for the GPS/GLONASS capability. Suitable for portable ATM's, meter boxes, vehicles or any situation where a low profile magnetic mount is required.



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

Specifications	ZAW-WiFi-4G
Construction	Internal PCB, black ABS radome, bottom stud mount and 2 x external cable assemblies
Frequency range	4G LTE, 4G, 3G, 2G/GSM - 698-960 & 1710-2690MHz WiFi: 2.4-2.5GHz
Bandwidth	Full frequency ranges
Peak gain	698-960MHz: -0.7dB, 1710-2690MHz/WiFi: 5.5dBi
Polarisation	Linear
VSWR	<2.0:1 - will change with different terminations
Impedance	50 Ohm
Maximum power	5 Watts
L.N.A Noise Figure	<1.5
Connector	1 x SMA male fitted to cables or specify requirements
Cable	2 x 3.0m RG174A/U, side exit from radome
Dimensions	Diameter: 69mm, Height: 21mm
Operating temperature	-35°C to +85°C
Storage temperature	-40°C to +85°C
Mounting hardware supplied	Remove the mounting nut and use minimum 13mm hole to mount.
Mounting position recommended	Mount the antenna as high as possible on your vehicle, caravan or structure to ensure stated performance levels



ZAU-GPSWL-5

All-in-one 'Shark-fin' low profile antenna
4G LTE, 4G, 3G, L1 GPS and WiFi/WLAN



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



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



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

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



Example of connectors fitted to each cable: GPS - QMA, LTE - SMA, WiFi - QMA
Please specify requirements when ordering.

ZAU-3C2M

Low profile thread mount dualband antenna
Telstra 4G/3G 825-890MHz and L1 GPS 1575.42MHz

 In-stock
Ready to
Ship

For both Automatic Vehicle Location (A.V.L.) systems and mobile phone improvement, the ZAU-3C2M series deliver a highly sensitive multiband solution for fleet management.

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



Specifications	GPS	Mobile Phone
Construction	Black plastic radome, chrome mounting base	
Frequency range	L1 GPS 1575.42MHz	Telstra 4G/3G 825-890MHz
Bandwidth	10MHz	Full frequency range
Gain	27 dB typical	1.0 dBi
Polarisation	Right-hand circular	-
Noise figure	1.8 maximum	-
Attenuation	20 dB min. @ FO ± 50MHz	-
VSWR	<1.5:1 full frequency range	
Impedance	50 Ohms	
Power supply	Power consumption 2.5 - 5.5 Volts DC/ 13 mA	Power handling capacity 10 Watts
Connector - fitted	SMA male	FME female
Cable	2 x 2.0m RG174 - bottom exit from thread mount	
Dimensions	64.5mm diameter x 14mm high	
Operating temperature	-40°C to +85°C	
Storage temperature	-45°C to +100°C	
Mounting hardware order separate	Bullbar: BBM-SS, BBML-SS, BBMXL-SS or BBKB-B Truck Mirror: MRM-SS Bracket Mounting: GM1, GM2, GM6 or ATLM series	
Mounting position recommended	As high on your vehicle as possible using a minimum 13mm hole or appropriate bracket with a 13mm hole	



FME female and SMA male fitted as standard



BBM-SS

BBKB-B

MRM-SS

GM2

ATLM-B

ZAU-9-LTE

Upgraded

All-in-one low profile 'dome' antenna
4G LTE, 4G/3G, L1 GPS/GLONASS and WiFi/WLAN


In-stock
Ready to
Ship

The ZAU-9-LTE low profile antenna is suitable for 4G LTE, GPS and WiFi applications such as vehicle tracking and data acquisition.

The radome enclosed internals ensures a water-proof seal for a long reliable service life in the harshest of environments.

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



SMA male fitted with identification bands

Specifications	L1 GPS/GLONASS	4G LTE, 4G & 3G	WLAN/WIFI
Construction	Black ABS radome, chrome mounting base and rubber gasket		
Frequency range	1575.42MHz - L1 band 1602MHz - GLONASS	704-960MHz 1710-2690MHz	2.4-2.5GHz 5.1-5.85GHz
Bandwidth	43MHz at S11 <-10dB	Full frequency range	
VSWR	<1.5:1	<2.4:1	<1.7:1
Gain	27dB at 3V	2.1dBi - 704-960MHz 2.1dBi - 1710-2690MHz	3.9dBi - 2.4-2.5GHz 3.3dBi - 5.1-5.85GHz
Impedance - nominal	50 Ohms		
Attenuation	20dB min. at FO ± 50MHz	-	-
Noise Figure	1.2 maximum	-	-
Power supply	3-5.5Volts DC Consumption 6.1-13mA	-	10 Watts power handling
Polarisation	Right-hand circular	Vertical - linear	
Height	Diameter: 85mm, Height: 41.5mm		
Connector	SMA male as standard or specify requirements		
Cable	10 metres RG174	10 metres RG58	
Operating temp.	-40°C to +80°C		
Storage temp.	-40°C to +85°C		
Mounting position recommended	Mount as high on your vehicle or vessel as possible using the attached mounting hardware and rubber gasket.		

ZAU-8-915

Low profile adhesive mount patch antenna

L1 GPS 1575.42MHz and ISM900/IoT/M2M Wireless Data 902-928MHz



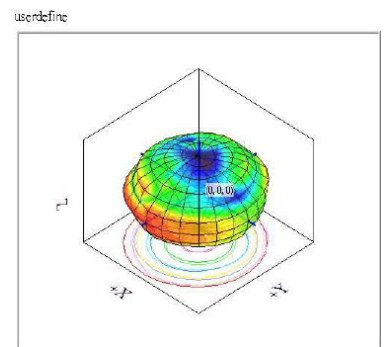
The ZAU-8-915 GPS and Data transmission antenna is perfect for AVL tracking, GPS navigation, telemetry, M2M or IoT applications all within a low profile, fully water-proof design.

Each of the frequency blocks have individual cable and terminations allowing for dual devices to be used into one antenna.

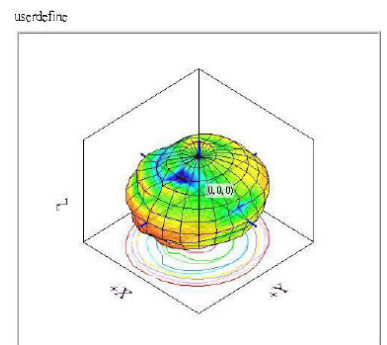
Adaptors, patch leads and other installation accessories are all available separately.



Specifications	GPS	IoT/M2M/Data
Construction	Black moulded radome	
Frequency range	L1 GPS 1575.42MHz	ISM900 902-928MHz
Bandwidth	2MHz	Full frequency range
Gain	27dB typical	0dBi
Polarisation	Right-hand circular	Linear
Noise figure	2.0 maximum	-
VSWR	<1.8:1	<2.0:1
Impedance	50 Ohms	
Power supply	3.0 ~ 5.5VDC	-
Power consumption	12mA	-
Power Handling	-	10 Watts
Cable	2 x 3.0 metre RG174A/U bottom exit from patch antenna	
Connector	FAKRA, MMCX, SMA, FME, QMA, TNC or Specify requirements when ordering	
Dimensions	118.4mm length x 55.5mm width x 12.3mm high	
Operating temperature	-40°C to +80°C	
Storage temperature	-45°C to +100°C	
Mounting hardware supplied	3M double sided adhesive pad - 1mm height	



@ 902MHz



@ 928MHz

ZAU-E100C

Industrial grade Low profile 'hockey puck' antenna
Satellite communications 1616-1626.5MHz



The ZAU-E100C low profile satellite communications antenna is suitable for navigation, data communication, vehicle tracking/fleet management and M2M or SCARDA applications.

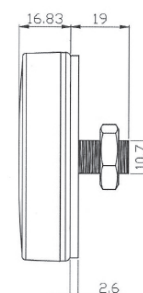
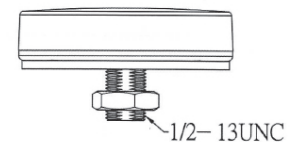
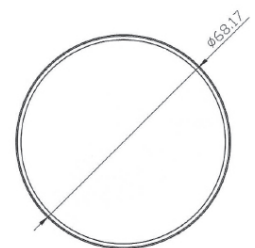
Custom cable lengths, connectors, mounting hardware and other installation accessories are all available separately.



Specifications	ZAU-E100C
Construction	Black ABS radome, zinc alloy mounting and external cable
Frequency range	Satellite communications: 1616-1626.5MHz
Bandwidth	Full frequency range
Gain - peak	2.5dBi
Polarisation	Right-hand circular (RHCP)
VSWR	<2.5:1
Impedance	50 Ohms
Azimuth	360°
Elevation	0-90°
Connector	TNC male connector fitted as standard or specify requirements
Cable	2.0 metres RG316 exits via mounting thread - multiple cable options are available upon request.
Dimensions	68.2mm diameter x 36mm high - including thread
Operating temperature	-35°C to +85°C
Storage temperature	-40°C to +85°C
Waterproof rating	IP67
Mounting hardware supplied	1/2-13UNC mounting thread with mounting nut supplied on base of antenna. Will require a 13mm diameter hole for mounting.
Mounting position recommended	Mount the antenna on the highest surface of your vehicle, vessel or structure as possible to ensure no obstructions. Obstructions such as trees, roof overhangs or other antennas will greatly reduce performance.



TNC male connector fitted as standard



NEW ZAU-IRM-ADH Low profile adhesive mount 'hockey puck' antenna Satellite communications 1616-1626.5MHz



The ZAU-IRM-ADH low profile 'hockey puck' satellite communications antenna is suitable for vehicle or fixed position mounting utilising 1616-1626.5MHz frequency range.

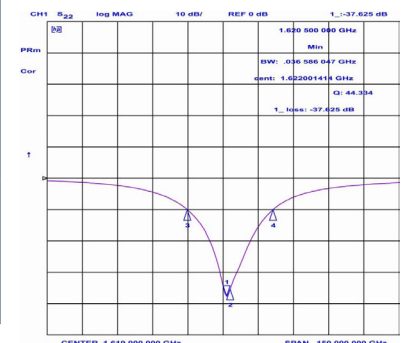
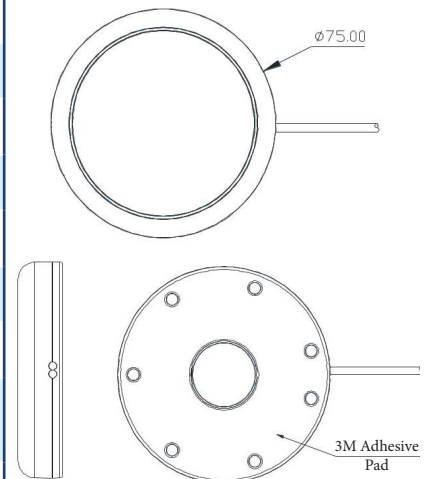
The ZAU-IRM-ADH is suitable for emergency services, large vehicle fleets or military applications requiring satellite communications.

Custom cable lengths, connectors, alternative mounting solutions and other installation accessories are all available separately.



Gold plated SMA male fitted as standard or specify requirements

Specifications	ZAU-IRM-ADH
Construction	Black ABS radome, adhesive mounting, external cable and termination - magnetic mounting available on request
Frequency range	Satellite communications: 1616-1626.5MHz
Bandwidth	Full frequency range
Gain - peak	4dBic minimum at 0°
Polarisation	Right-hand circular (RHCP)
VSWR	<2:1 - with SMA and 2.0m cable, other variants will alter performance
Impedance	50 Ohms
Power rating	30 Watts
Efficiency	70% - without ground plane
Connector	SMA male connector fitted as standard or specify requirements
Cable	2.0 metre cable side exits from radome
Dimensions	75mm diameter x 15.8mm high
Waterproof rating	IP67
Mounting hardware supplied	3M adhesive mounting pad 75mm diameter attached to base - magnetic mounting also available
Mounting position recommended	Mount the antenna on the highest surface of your vehicle, vessel or structure as possible to ensure no obstructions. Obstructions such as metal, window tint, heating elements or other antennas will greatly reduce performance.



Hand Portable

Contents page

VHF communications portable whips

- M99 Series VHF Mid band 70-87MHz, 2.1dBi, UHF male or 5/16"-26TPI female thread
- M99BNC series VHF 148-174MHz or 156-162MHz or UHF 400-520MHz, 2.1dBi, BNC male base
- M99RT series VHF High band 148-174MHz or 171MHz, 2.1dBi, 5/16"-26TPI female thread

Flexible portable whips

- ZSMA SMA female base VHF 70-200MHz or UHF 403-520MHz, 2.1dBi
- ZSMA SMA male base VHF 130-200MHz, UHF 300-520MHz or Mobile phone 870-940MHz, 2.1dBi

UHF communications portable whips

- MB-477 and MBM477 UHF CB Radio, 477MHz, 3.0dBi, European M6 male thread
- M99B, M99U and M99T-400 UHF 400-520MHz, 2.1dBi, BNC male, UHF male or TNC male base - specify
- M99N433 and M99N900 UHF 433MHz or UHF 900MHz, 2.1dBi, N-type male

Mobile phone/WiFi portable whips

- C858 3G and 4G upper, 890-960MHz & 1710-1880MHz, 2.1dBi, FME female base
- M96T series 3G 825-890MHz or 3G 890-960MHz, 2.1dBi, M6 thread
- M99BNC900 900-930MHz, 2.1dBi, BNC male base
- ZGSM-WX series 4G LTE 700-800MHz or 3G and 4G 824-960MHz & 1710-1880MHz, 5.5dBi, SMA male
- ZYUE-4GLTE series 4G LTE, 4G, 3G and WiFi, 4.5-5dBi, SMA male
- ZYUE-WX series 3G 890-960MHz or ISM2.4/WiFi 2.4-2.5GHz, 2.1dBi, 90° pivot mount, SMA male
- WH2400-2 2.4GHz WiFi/WLAN, 2.1dBi, SMA male, 75mm
- WH2400-3 2.4835GHz WiFi/WLAN, 2.1dBi, SMA male, 85mm
- WH5800-2-R 5.8GHz WiFi/WLAN, 2.1dBi, SMA male, 73mm
- IA-WX-900D 2.4-2.5GHz WiFi/WLAN, 5dBi, RPSMA male

How to order

Terms and conditions of sale

Contact us

M99 series

Highly flexible helical whip

VHF Mid Band 70-87MHz or 70-85MHz

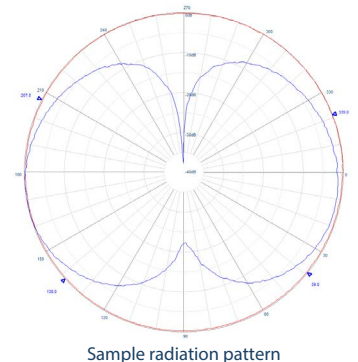


The M99 series are helically wound whips specifically for the VHF Mid band 70-85MHz frequency range.

The helical design is most useful in circumstances where reduced height and flexible construction is essential.

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

Specifications	M99U-70	M99ERG70-HD
Construction	Flexible helical whip and chrome connector	
Frequency range	70-87MHz	70-85MHz
Bandwidth	Any 3% within frequency range	
Tuning	Field trim to tune using SWR meter	
VSWR - nominal	<1.5:1	
Gain - nominal	2.1dBi	
Polarisation	Vertical	
Maximum power	25 Watts	
Impedance	50 Ohms	
H Plane	360° omni-directional	
Connector	UHF female in base	5/16"-26TPI female thread
Height	450mm	308mm
Weight	75 grams	70 grams
Mounting - M99U-70 Mounting - M99ERG70-HD	RA-4.7 or MGB-UHF OB-2 / OB-4.7 / MGB-OB or MS Base	
Mounting position recommended	Mount as high on your device or vehicle as possible. If on hand-held device, ensure minimal metallic are surrounding you	



M99BNC series

Highly flexible helical whips or flexible whip
VHF High band 148-162MHz or UHF 400-520MHz



The M99BNC series of whips have a BNC male connector as the base and termination and are suitable for VHF high band or UHF applications

The flexible design of the M99BNC series is most useful in circumstances where reduced height and flexible construction is essential.

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

Specifications	M99BNC-148*	M99BNC-161*	M99BNC-400
Construction	Black heatshrunk helical whip and chrome BNC connector base	Black moulded straight whip and chrome BNC connector base	
Frequency range	VHF 148-174MHz	VHF 156-162MHz	UHF 400-520MHz
Bandwidth	Any 5%	Full band	
VSWR	<1.5:1 across tuned bandwidth		
Tuning	Field tune using SWR meter	Field trim using SWR meter to 1.5:1 VSWR	Factory
Gain	2.1dBi		1.8dBi
Impedance - nominal	50 Ohms		
Maximum power	25 Watts		
Polarisation	Vertical		
H Plane	360° omni-directional		
Height	308mm		
Weight	66grams	25grams	22grams
Connector	BNC male as base		
Mounting	BNC male fits to any BNC female terminated device		
Mounting position recommended	Mount as high on your device or vehicle as possible. If on hand-held device, ensure minimal metallic are surrounding you		



M99RT series

Ground dependent flexible helical whip VHF 148-174MHz

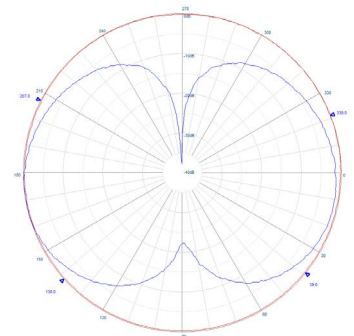


The M99RT series are helically wound whips specifically for the VHF 148-174MHz frequency range.

This helical design is most useful in circumstances where reduced height and flexible construction is essential.

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

Specifications	M99RT-148	M99RT-171
Construction	Black heatshrunk helical whip and chrome ferrule	
Frequency range	VHF 148-174MHz	VHF 171MHz
Bandwidth	Any 5%	N/A
VSWR	<2.5:1 across bandwidth	
Tuning	Field tune using SWR meter	No tune required
Gain	2.1dBi	
Impedance - nominal	50 Ohms	
Maximum power	25 Watts	
Polarisation	Vertical	
H Plane	360° omni-directional	
Mount ferrule thread	5/16"-26TPI female thread	
Height	315mm	205mm
Weight	66grams	40grams
Mounting hardware order separate	OB-2 / OB-4.7 / MGB-OB or MS Base - will require a ground plane	
Mounting position recommended	Mount as high on your device or vehicle as possible onto a large metallic surface. If on a hand-held device, ensure minimal metallic are surrounding you	



Sample radiation pattern



OB-2 mount base



OB-4.7 cable base



MGB-OB magnetic base



MS base spring base

Flexible whips

SMA female terminated flexible whips

VHF 70-200MHz or UHF 403-520MHz



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

The highly flexible whips are designed to fit onto any portable radio with a SMA male connection.

The below range of whips are not ground independent and suit to be mounted onto hand-held devices for VHF 70MHz through to UHF 900MHz applications.

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

Specifications	ZSMA-70-77*	ZSMA-165F	MW4052	MW4547
Construction	Black Thermoplastic Polyether Elastomer (TPEE) outer and chrome termination			
Frequency range	70-77MHz	130-200MHz	403-520MHz	450-470MHz
Bandwidth	Full frequency range			
VSWR	<2.5:1		<1.8:1	
Tuning	Factory			
Gain	2.1dBi			
Impedance - nominal	50 Ohms			
Maximum power	25 Watts			
Polarisation	Vertical			
H Plane	360° omni-directional, ±0.5			
Connector	SMA female as base			
Height	290mm	160mm	140mm	175mm
Weight	50grams	16grams	15grams	16grams
Mounting	SMA female fits to any SMA male terminated device			
Mounting position recommended	Mount as high on your structure as possible. If using on a hand-held device, ensure device is not enclosed within metallic material or within a metallic lined structure.			



SMA male versions also available see ZSMA male

Flexible Whips

SMA male terminated flexible whip VHF 130-240MHz or UHF 300-940MHz



These selection of highly flexible whips are designed to fit onto any portable radio which have a SMA female connection.

The below range of whips are not ground independent and suit to be mounted onto hand-held devices for VHF 70MHz through to UHF 900MHz applications.

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



Specifications	ZSMA-165	ZSMA-240*	ZSMA-350	ZSMA-435	TW4052	ZSMA-905
Construction	Black Thermoplastic Polyether Elastomer (TPEE) outer and chrome termination					
Frequency range	130-200MHz	240MHz	300-400MHz	400-470MHz	403-520MHz	870-940MHz
Bandwidth	Full frequency	N/A	Full frequency range			
VSWR	<2.5:1					
Tuning	Factory					
Gain	2.1 dBi					
Impedance - nominal	50 Ohms					
Maximum power	25 Watts					
Polarisation	Vertical					
H Plane	360° omni-directional, ±0.5					
Connector	SMA male as base					
Height	160mm	159mm	157mm	95mm	170mm	110mm
Weight	20grams	20grams	20grams	12grams	20grams	12grams
Mounting accessories	SMA male fits to any SMA female terminated device					
Mounting position recommended	Mount as high on your structure as possible. If using on a hand-held device, ensure device is not enclosed within metallic material or within a metallic lined structure.					

SMA female versions also available see ZSMA female

MB477 & MBM-477 Series

European M6 threaded flexible whip

UHF CB Radio 477MHz


In-stock
Ready to
Ship

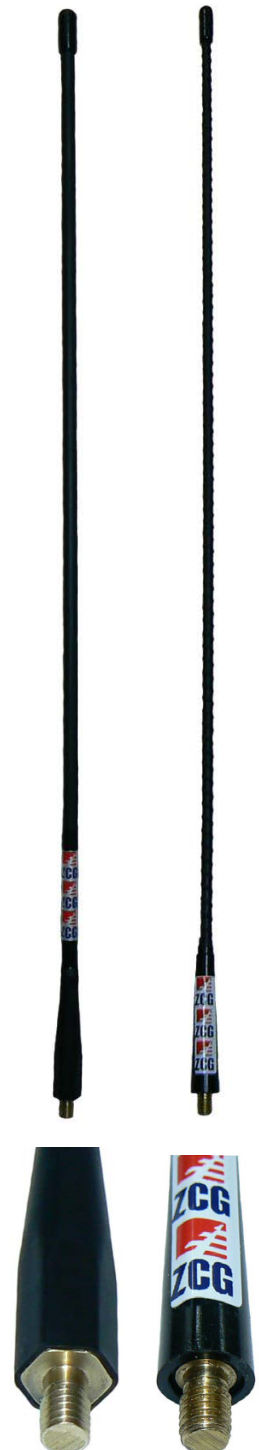
The MB477 and MBM-477 are flexible, helically wound whips specifically for UHF CB Radio 477MHz.

The helical design is suited for circumstance where reduced height and a flexible capacity is required.

These whips are not ground independent and require a metallic ground plane to achieve stated performance levels.

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

Specifications	MB477	MBM-477
Construction	Black heatshrunk helical whip and chrome termination	
Frequency range	UHF CB Radio 477MHz	
Bandwidth	2MHz around centre frequency	
VSWR	<1.5:1	
Tuning	Factory	
Gain - nominal	3.0dBi	
Maximum power	25 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
H Plane	360° omni-directional	
Height	480mm	522mm
Mount ferrule thread	European M6 male	
Weight	47.5grams	20.5grams
Mounting position recommended	Mount as high on your vehicle or structure as possible using the appropriate base	



M99B, M99U & M99T-400

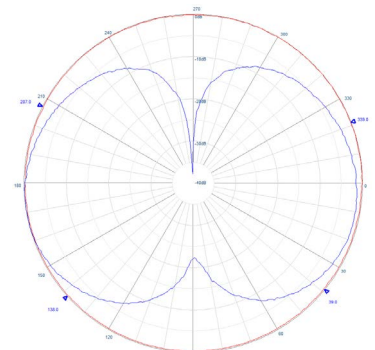
Flexible termination base whips
UHF 400-520MHz


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

These M99 series of flexible whips are specifically designed to fit to the connection of a portable or vehicle UHF radio with either a BNC, UHF or TNC female termination.

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

Specifications	M99B-400	M99U-400	M99T-400*
Construction	Black heatshrunk whip and chrome connector		
Frequency Range	UHF 400-520MHz		
Bandwidth	10MHz - field tune once installed		
VSWR	<1.5:1 across bandwidth		
Tuning	Field tune using SWR meter		
Gain	2.1dBi		
Impedance - nominal	50 Ohms		
H Plane	360° omni-directional		
Maximum Power	25 Watts		
Polarisation	Vertical		
Connector	BNC male as base	UHF male as base	TNC male as base
Height	200mm		360mm
Weight	30grams	38grams	45gram
Mounting	BNC male fits to any BNC female terminated device	UHF male fits to any UHF female terminated device	TNC male fits to any TNC female terminated device
Mounting Position recommended	Mount as high on your structure as possible. If using on a hand-held device, ensure device is not enclosed within metallic material or within a metallic lined structure.		



Sample radiation pattern



BNC termination of M99B-400



UHF termination of M99U-400



TNC termination of M99T-400

M99N Series

N-type terminated flexible stubby whip
UHF/IoT/ISM 433MHz or Mobile Phone/ISM 900MHz



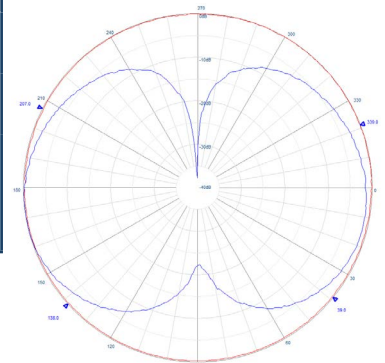
The M99N series of 'stubby' whips come standard terminated with a N-type male connector as the base or can be fitted with a BNC, TNC or UHF male upon request - specify requirements when ordering.

The flexible design of the M99N series is most useful in circumstances where reduced height and flexible construction is essential. Suitable for M2M or IoT applications within the 433MHz or 900MHz range.

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



Specifications	M99N-433	M99N-900
Construction	Black heatshrunk flexible whip and chrome termination	
Frequency range	IoT/UHF/ISM 433MHz	UHF/Mobile phone 900MHz
VSWR	<1.5:1 across tuned bandwidth	
Tuning	Factory	
Gain	2.1dBi	
Impedance - nominal	50 Ohms	
Maximum power	25 Watts	
Polarisation	Vertical	
H Plane	360° omni-directional	
Height	200mm	114mm
Weight	45grams	50grams
Connector	N-type male as base	
Mounting	N-type male fits to any N-type female terminated device	
Mounting position recommended	Mount as high on your device or vehicle as possible. If on hand-held device, ensure minimal metallic obstruction impeding signal.	



Sample radiation pattern

C858

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


In-stock
Ready to
Ship

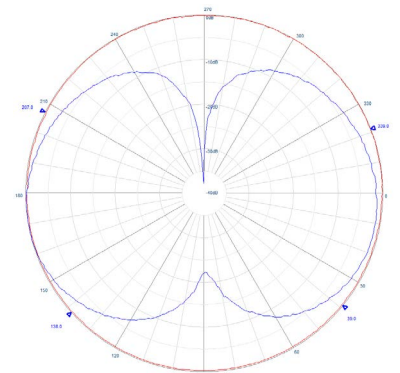
The C858 is a small portable whip designed for use on 4G/3G 900 and 4G LTE/4G upper 1800 band portable devices.

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

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



Specifications	C858
Construction	Black UV resistant PVC and chrome connector
Frequency range	Optus & Vodafone 4G/3G: 890-960MHz All networks 4G LTE/4G upper: 1710-1880MHz
Bandwidth	Full frequency range
VSWR	<3:1
Tuning	Factory
Gain	2.1dBi
Impedance - nominal	50 Ohms
Maximum power	5 Watts
Polarisation	Vertical
Connector - fitted	FME female in base
Height	56mm
Weight	5grams
Mounting	FME female fits to any FME male terminated device
Mounting position recommended	Mount as high on your device or vehicle as possible. If on hand-held device, ensure minimal metallic are surrounding you



Sample radiation pattern

M96T series

M6 female threaded flexible whip
4G & 3G 825-890MHz or 890-960MHz



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

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



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



M99BNC-900

Omni-directional wireless data link flexible whip
Radio Location/M2M/IoT/ISM900 900-930MHz


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

The M99BNC-900 is a highly flexible whip specifically designed for wireless data link, M2M, IoT or Radio location within the 900-930MHz range. The M99BNC-900 is suited for internal M2M/IoT or ISM900 applications. For external applications see the SG-900 series or DLD900.

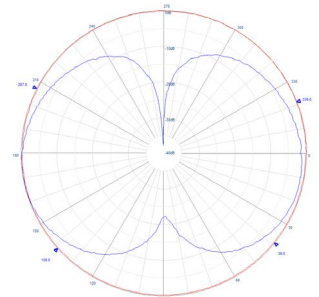
Coaxial feeder cable, adaptors and other installation accessories are all available separately.



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



BNC male as mount base and termination N-type male as mount base and termination



M99BNC-900 sample radiation pattern at 900MHz

ZGSM-WX series

Mobile phone/Wireless data improvement pivot whip
4G LTE 700-800MHz or 4G/3G 824-960 & 1710-1880MHz


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

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

Ideal applications for the ZGSM-WX series are:

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

Cable assemblies and other installation accessories are all available separately.



Specifications	ZGSM-WX-750	ZGSM-WX-825
Construction	Black moulded outer, 90° swivel joint, and gold plated termination	
Frequency range	4G LTE 700-800MHz	4G/3G 824-960MHz and 4G LTE/4G upper 1710-1880MHz
Bandwidth	Full frequency range	
VSWR	<1.5:1	
Tuning	Factory	
Gain	5.5dBi	5.5dBi - 824-960MHz 2.1dBi - 1710-1880MHz
Maximum power	50 Watts	
Impedance	50 Ohms	
Polarisation	Vertical	
Connector	SMA male	
H Plane	360° omni-directional	
Operating temperature	-40°C to +80°C	
Storage temperature	-40°C to +85°C	
Dimensions	Height: 196mm, Diameter: 15mm	
Weight	150grams	
Mounting	Connection straight to the device with swivel flanged connection, can be used in conjunction with low loss cable tail.	



ZYUE-4GLTE series

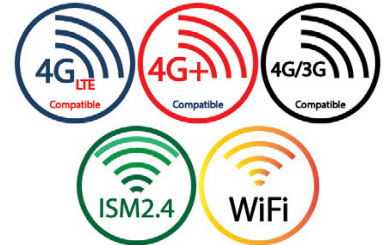
Mobile phone/Wireless data improvement pivot whip

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



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

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



Specifications	ZYUE-4GLTE-001	ZYUE-4GLTE-N001
Construction	Black moulded whip, 90 degree swivel chrome connector	
Frequency range	4G LTE, 4G, 3G and ISM 2.4/ WiFi 704-960MHz & 1710-2690MHz	
Bandwidth	Full frequency range	
VSWR	<2.0:1	
Tuning	Factory	
Gain	4.5dBi	5dBi
Impedance	50 Ohms	
Maximum power	10 Watts	
Connector as base	SMA male	
Polarisation	Linear	
H Plane	360° omni-directional	
Dimensions	Height: 87.5-105mm Diameter: 9.4mm Width: 27mm	Height: 144-182mm Width: 30mm Depth: 16.3mm
Mounting	SMA male fits to any SMA female terminated device	
Operating temperature	-20°C to +65°C	-40°C to +80°C
Mounting position recommended	Mount as high as possible, if using on a hand-held device, ensure device is not enclosed within metallic material or within a metallic lined structure.	



ZYUE-4GLTE-001



ZYUE-4GLTE-N001

ZYUE-WX-2400 series

90 degree swivel whip

ISM2.4/WiFi/WLAN


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

The ZYUE-WX-2400 series of whips have the added ability to be either set straight, or on a 90 degree bend for those space saving requirements.

The ZYUE-WX-2400F and ZYUE-WX-2400F-RPSMA are both designed for WiFi use using the ISM2.4 frequency range.

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



Specifications	ZYUE-WX-2400F	ZYUE-WX-2400F-RPSMA*
Construction	Black moulded whip, 90 degree swivel chrome connector	
Frequency range	ISM2.4/WiFi/WLAN 2.4-2.5GHz	
Bandwidth	Full frequency range	
VSWR	<2.0:1	
Tuning	Factory	
Gain	5.5dBi	
Impedance	50 Ohms	
Maximum power	50 Watts	
Connector as base	SMA male	Reverse polarisation SMA male
Polarisation	Vertical, or 90° vertical to your equipment	
H Plane	360° omni-directional	
Height	220mm	
Weight	26grams	
Mounting	SMA male fits to any SMA female terminated device. Reverse SMA male fits to any reverse SMA female termination device	
Mounting position recommended	Mount as high on your structure as possible. If using on a hand-held device, ensure device is not enclosed within metallic material or within a metallic lined structure.	



SMA male termination in ZYUE-WX-2400F

WH series

Interior low profile data link whip
WiFi/WLAN, ISM2.4 or ISM5.8


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

The WH series are specifically designed for internal use on low power data link devices operating in the WiFi/WLAN ISM2.4 or ISM5.8 range.

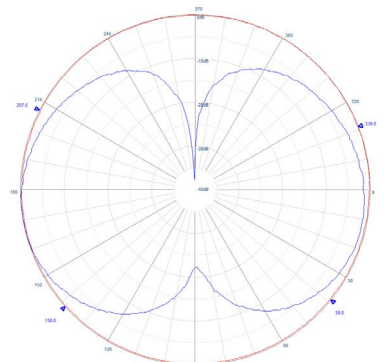
The WH series suit any device with a protruding SMA female connector. The small profile of this antenna allows for it to covertly be installed with minimal visual impact.

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



SMA male termination as base of whip

Specifications	WH2400-2	WH2400-3*	WH5800-2-R
Construction	Black UV resistant PVC and brass		
Frequency range	ISM2.4/WiFi/WLAN 2.4GHz	WiFi/WLAN 2.4835GHz	ISM5.8/WiFi/WLAN 5.8GHz
VSWR	<1.5:1		
Tuning	Factory		
Gain	2.1 dBi		
Polarisation	Vertical		
Maximum power	5 Watts		
Impedance - nominal	50 Ohms		
H Plane	360° omni-directional		
Connector	SMA male as base		
Height	70mm	85mm	73mm
Weight	9grams	15grams	4grams
Mounting	Onto any device or cable with SMA female termination		
Mounting position recommended	Mount as high on your device or hand-held device as possible, if mounting inside structure ensure no metallic obstructions impede signal path.		



Sample radiation pattern

IA-WX-900D

ISM2.4/WiFi/WLAN moulded whip
2.4-2.5GHz


In-stock
Ready to
Ship

The IA-WX-900D is a hand portable whip designed and manufactured for ISM2.4/WiFi/WLAN applications where a reverse polarity SMA termination is required.

Suitable for internal device mounting or for mounting onto a portable device, the easily installed and removed IA-WX-900D can be used either in a short or long term installation.

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



Specifications	IA-WX-900D
Construction	Black moulded whip and chrome termination
Frequency range	ISM 2.4/WiFi/WLAN 2.4-2.5GHz
Bandwidth	Full frequency range
VSWR	<1.5:1
Tuning	Factory
Gain	5dBi
Impedance	50 Ohms
Maximum power	5 Watts
Connector as base	Reverse polarisation SMA male
Polarisation	Vertical
H Plane	360 omni-directional
Height	250mm
Weight	30grams
Mounting	Any device or cable with a reverse polarity SMA female
Mounting position recommended	Mount as high as possible on your device or installation, ensure minimal obstructions such as metallic objects impede signal path.



How to order

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ZCG distributor trade prices

ZCG scalar retail distributors, RF installer and Broadcasters can contact our team of consultants who will be pleased to assist you with complete detail about our extensive range of Broadcast and Radio Frequency Products. We DO NOT sell direct to the public or quote retail prices.

A written quotation detailing your Trade Discount Prices and product availability will be provided upon request.

Download the latest ZCG Scalar Product Catalogue from our website www.zcg.com.au

Stock items

Certain items are held in stock.

Our consultants can confirm availability of any item depending on the quantity required.

Orders for stock items will normally be dispatched the next working day.

Build items

Antennas and Accessories not held in stock will be manufactured to your requirements. Build times may vary according to the product, quantity required and factory loading.

Typical lead time is 3 working weeks (public holidays excluded) for dispatch ex works in Lindenow, Victoria. Contact our RF Solutions Consultants for advice according to the product required.

The scheduled dispatch date will be confirmed normally within 48 hours. Freight time will depend upon the method of delivery and final destination. Please allow an adequate period before scheduling any antenna installation.

Urgent priority build items

For orders that require a shorter than normal delivery time, ZCG Scalar offer a priority build service depending on the product and quantity.

Priority Build Service attracts a premium charge which RF Consultants will advise.

Placing orders

All Purchase Orders will be required in writing. Send your Purchase Order by fax or email.x

Fax orders to:

ZCG 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 wasaes@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

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Freight insurance

ZCG Scalar policy is to INSURE ALL OUTGOING FREIGHT against damage or loss during transit.

The Transit Insurance rate is 1 PERCENT of the value of goods before GST. This amount will be invoiced as a separate line item.

IF YOU INSTRUCT ZCG SCALAR NOT TO INSURE YOUR FREIGHT, then ZCG Scalar accept no responsibility whatsoever for goods.

If you utilise your own freight carrier, then Transit Insurance will not be provided by ZCG Scalar.

Responsibility to check goods upon arrival

When goods arrive at their destination, before signing the Delivery Docket, it is the customer's responsibility to CHECK that all items are present and in good condition.

If anything is found to have been damaged in transit, or is missing, make appropriate notes on the Delivery Docket prior to signing. Then contact ZCG Scalar.

If this is not done, then any subsequent insurance claim will be rejected. ZCG Scalar WILL NOT take any responsibility for uninsured goods or insured goods signed for as being received in good order and condition, but later found to be damaged or missing.

Please instruct your staff accordingly prior to the arrival of goods.

Warranty

ZCG Scalar warrants that all goods sold to the buyer will be free from defects in materials and workmanship attributable to ZCG Scalar for a period of:

- 2 Years from the date of Invoice for Broadcast Antennas and Power Dividers; and
- 1 Year from the date of Invoice for all other Antennas and Accessories.

Should the Buyer find any goods to be defective in materials or workmanship attributable to ZCG Scalar within the stated warranty period, then the Buyer must complete a "Warranty Claim Form" explaining the defect(s) and submit this form to ZCG Scalar. The "Warranty Claim Form" is available to download from our website, or will be provided upon request.

The freight for any items returned under warranty to ZCG Scalar must be arranged and paid by the Buyer. ZCG Scalar at their discretion will either repair, replace or refund the cost of any goods found to have a defect attributable to ZCG Scalar within the stated warranty period.

Return of goods

No goods can be returned for credit unless ZCG Scalar have issued the Buyer with a "Customer Return Authorisation Form" explaining the reason(s) why goods are being returned. Contact ZCG Scalar for this form.

When goods are returned by the Buyer, a minimum Re-Stocking Fee of ~~\$50.00~~ will be payable by the Buyer, or 15 percent of the Invoiced value of the goods returned to ZCG Scalar, whichever is the greater, unless stated otherwise by ZCG Scalar.

Terms and conditions of sale

All sales are subject to our ZCG Scalar Terms and Conditions of Sale.

These Terms and Conditions of Sale appear at the back of our Product Catalogue and are also available to download. Visit our website and select the menu 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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5) DESIGN CHANGES

ZCG Scalar reserve the right to alter the design or specifications of any goods and/or services at any time without notice. ZCG Scalar shall have no obligation to make alterations in the design or construction of goods and/or services previously accepted and delivered even though design changes are incorporated in goods and/or services subsequently being delivered.

6) BUYER'S SPECIAL REQUIREMENTS

Changes to the specifications at the Buyer's request after the placing of any order will only be accepted at ZCG Scalar's discretion. Such changes will only take effect when agreed in writing by the Company and may result in late delivery or increase in price.

7) CONSENTS

It shall be the responsibility of the Buyer to obtain any consent necessary for the importation of goods and/or services into their country. Any contract shall be conditional upon ZCG Scalar obtaining any consent necessary for the export of the goods and/or services from Australia and/or from the country of origin.

8) PAYMENTS

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

- a) Where payment is not received in accordance within the specified time, the Buyer agrees that ZCG Scalar shall have the right to invoice and the Buyer will pay Late Payment Charges amounting to 2.5 per centum per month on all monies from time to time owing in respect of the goods and/or services including all charges.
- b) ZCG Scalar reserves the right to suspend all and any deliveries to the Buyer where payment is not received in accordance with paragraph (a) of the Clause.
- c) ZCG Scalar reserves the right to withdraw at any time credit facilities extended the Buyer where payment is not received in accordance with paragraph (a) of this Clause or where others acts or omissions of the Buyer are objectionable to ZCG Scalar.
- d) No discount will be allowed except where otherwise agreed in writing by ZCG Scalar.
- e) The Buyer authorises ZCG Scalar (its servants or agents) to make all reasonable enquires to verify the information given to ZCG Scalar by the Buyer is correct and that the Buyer can satisfy the requirements of ZCG Scalar and its commitments under the terms of this agreement.

9) PRICE VARIATION

- a) Subject to paragraph (b) of this clause all prices shall be as quoted in writing or in accordance with ZCG Scalars current price list. Verbal quotations are subject to written confirmation.
- b) ZCG Scalar reserves the right without notice to alter the price of goods and/or services whether or not a deposit or part payment has been received by ZCG Scalar for such goods and/or services and to invoice the Buyer for any such extra amount where the cost of the goods and/or services to ZCG Scalar has altered due to circumstances beyond its control, or to correct errors or omissions.

10) RETURN OF GOODS

- a) No return of goods will be accepted for credit unless :
 - i) A written "**Customer Return Authorisation Form**" has been issued to the Buyer by ZCG Scalar explaining the reason(s) why goods are being returned.
 - ii) The Buyer returns the goods to ZCG Scalar together with the "Customer Return Authorisation Form" within thirty (30) days from the date the form was issued, and
 - iii) The freight charge for the return of goods to ZCG Scalar is paid by the Buyer, unless stated otherwise by ZCG Scalar on the "Customer Return Authorisation Form".
- b) No return of goods will be accepted and no credit note will be issued for any goods specially acquired or specially manufactured for the Buyer.
- c) No credit note will be issued to refund the original freight charge to the Buyer, unless stated otherwise by ZCG Scalar on the "Customer Return Authorisation Form".
- d) When goods are returned by the Buyer, a minimum Re-Stocking Fee of \$50.00 will be payable by the Buyer, or 15 percent of the Invoiced value of the goods returned to ZCG Scalar, whichever amount is the greater, unless stated otherwise by ZCG Scalar on the "Customer Return Authorisation Form".

Terms and conditions of sale

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- e) Where in ZCG Scalar's opinion goods are returned otherwise than in the same condition as when they were delivered to the carrier or directly to the Buyer a charge equal to the cost necessary to restore the goods to their original condition shall be levied and be payable by the Buyer on demand
- f) Where goods are returned to ZCG Scalar and ZCG Scalar are unable to resell the goods to a third party or unable to resell the goods to the third party for the same amount as was sold to the Buyer then ZCG Scalar shall be entitled to charge the Buyer an equal amount to the loss that it has incurred by reason of the Buyer returning the goods to ZCG Scalar.

11) CANCELLATION

To the full extent permitted by law, orders for good and/or services specially acquired by ZCG Scalar for the Buyer shall not be cancelled by the Buyer without ZCG Scalar's written consent. The cancellation of any order shall be made on terms with indemnify ZCG Scalar against all loss.

12) STANDARD SPECIFICATIONS AND FINISH

Goods and/or services ordered by reference to a standard specification shall be an order for goods and/or services of that general description being identified thereby, made to the current standard finish available.

13) INTELLECTUAL PROPERTY PROTECTION

ZCG Scalar does not warrant that the goods and/or services supplied do not infringe any Letters Patent, Registered Design, Copyright or any Trademarks and shall not indemnify the Buyer, its customers or any user of the goods and/or services against any action, suit, proceedings, demand or claim for actual or alleged infringement of any Letters Patent, Registered Design, Copyright or Trademarks brought or made against the Buyer, its customers or any users by reason of the use of goods and/or services supplied.

14) GOVERNING LAWS

The Buyer has the full responsibility of ensuring that he complies with all Acts, Regulations, Ordinances and By-Laws affecting the possession and use of goods and/or services sold including but without limiting the generality of the foregoing any Acts, Regulations, Ordinances and By-Laws regulating transmitting and receiving equipment or connection to a telecommunications network.

15) PRODUCT WARRANTY

ZCG Scalar warrants that all goods sold to the Buyer will be free of defects in materials and workmanship attributable to ZCG Scalar for the period of:

- a) **2 YEARS** from the date of Invoice for all Broadcast Antenna and Power Dividers; and
- b) **1 YEAR** from the date of Invoice for all other Antennas and Accessories

Should the Buyer find any goods to be defective in materials or workmanship attributable to ZCG Scalar within the stated warranty period, then the Buyer must complete a "Warranty Claim Form" explaining the defect(s) and submit this form to ZCG Scalar.

Upon receiving a "Warranty Claim Form" from the Buyer, then ZCG Scalar will either:

- a) Issue the Buyer with a "Customer Return Authorisation Form" in accordance with Paragraph (9) to authorise the return of goods to ZCG Scalar for examination, with the freight for items returned under warranty to ZCG Scalar arranged and paid by the Buyer; or
- b) Attend the Buyer's installation site to assess any defect(s) in the goods supplied.

ZCG Scalar at their discretion will either repair, replace or refund the cost of any goods found to be defective within the stated warranty period, provided that the goods have not been:

- a) damaged through improper installation, physical abuse, neglect or accident,
- b) assembled incorrectly
- c) serviced by an unauthorised person, or
- d) used for other than their intended purpose.

Components are only covered by the component manufacturer's normal warranty and should such warranty have expired before the return of goods then new components installed will be charged at cost. Goods repaired under warranty will be returned to the Buyer or ultimate user, carriage paid.

ZCG Scalar accept no responsibility for any costs incurred for removing or re-installing the product or any losses involved while the product is out of service.

The benefits conferred by the Warranty contained in this condition are in addition to all other rights and remedies in respect of the goods which the Buyer has under the Trade Practices Act similar State and Territory laws.

16) REPAIRS AND PARTS

ZCG Scalar does not promise the availability or facilities for the repair of the goods sold or the availability of parts for such goods

Terms and conditions of sale

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17) INDEMNITY

To the full extent permitted by law the Buyer :

- a) Agrees to indemnify and at all times hereafter to keep indemnified and hold ZCG Scalar, its servants and agents and each of them harmless against all claims for loss or damage (whether as a result of negligence or otherwise) arising directly or indirectly out of the Buyer's use, possession, ownership or resale to a third party or out of the use possession or ownership by such third party of the goods and/or services or any part or parts thereof whether separately or in combination with any other equipment or material.
- b) Agrees that the indemnity in paragraph (a) of this Clause shall survive the termination of this Contract and shall extend to cover all alleged default or defect in the goods and/or services or part or parts thereof or instructions supplied for use in connection with the goods and/or services or out of any failure of the goods and/or services to perform a particular task or to achieve a particular result or to comply with any particular specifications.

18) FORCE MAJEURE

To the full extent permitted by law the Buyer releases ZCG Scalar from all and any liability for and in connection with or arising out of any failure or deal in performance of its obligation hereunder due in whole or in part to any cause whatsoever beyond ZCG Scalar's reasonable control.

19) IMPLIED CONDITIONS AND WARRANTIES

All implied conditions and warranties (statutory or otherwise) are hereby expressly excluded from this Contract insofar as they are capable of being excluded by Agreement.

20) COLLATERAL WARRANTY

Any collateral warranty that may have otherwise arisen from any statement or representation oral or in writing that may have been made by any servants or agents of ZCG Scalar prior to the delivery of the goods and/or services is hereby expressly excluded to the full extent permitted by law and to that extent the Buyer releases ZCG Scalar from any liability in connection with any such statement or representation.

21) REPRESENTATION

To the full extent permitted by law the Buyer hereby releases ZCG Scalar from, and ZCG Scalar expressly disclaims, any liability under, in connection with or arising out of any representation or advice, oral or in writing that may have been made by any servant or agent of ZCG Scalar prior to or at the time of delivery of the goods.

22) FITNESS FOR PURPOSE

The Buyer shall not rely on ZCG Scalar's skills and judgement on whether the goods and/or services are fit for the purpose of which they may be required by the Buyer.

23) WAIVER

No forbearance or other indulgence granted to the Buyer shall in any way discharge the Buyer from any of the Buyer's obligations under this contract or otherwise affect any such obligation.

24) EXTENT OF LIABILITY

In any event ZCG Scalar's liability to the Buyer for any loss damage or injury arising directly or indirectly from the sale of non-domestic goods shall be limited to an amount equal to :

- a) the cost of replacing the goods;
- b) the cost of obtaining equivalent goods; or
- c) the cost of having the goods repaired;

whichever is the lesser amount.

25) NOTICES

Any notices or account rendered to be given to the Buyer by ZCG Scalar shall be in writing and may be mailed postage pre-paid, emailed, faxed or hand delivered to the postal address, email address, facsimile number or street address advised by the Buyer in writing. Any such notice or demand shall be deemed to have been received by the Buyer two (2) business days in the place of a receipt after dispatch if sent by mail, or the same business day in the place of a receipt after dispatch is sent by email, facsimile or hand delivery. Any notice rendered to or to be given to the Company by the Buyer shall be in writing and may be mailed postage pre-paid, emailed, faxed or hand delivered to the Company's office as appears in this agreement or any other address that ZCG Scalar may advise in writing for the purpose.

26) LAW

This Contract shall be governed by and construed in accordance with the laws of the State of Victoria, Australia.

27) STATUTORY RIGHTS

The Buyer acknowledges that this agreement is subject to any rights and obligations arising between the parties pursuant to any legislation or by implication of law and specifically acknowledge that this agreement is not intended and will not operate to override any rights and obligations created by the Trade Practices Act of Commonwealth of Australia (1974 as amended). To the extent that any provision of this agreement is void, voidable or repugnant to the provisions of that Act or any other Act of the State of Victoria that provision shall be deleted from this agreement but the remainder of the provisions of this agreement shall continue to apply.



Contact Us

Head Office and Factory

7 Hall Street
PO BOX 7
Lindenow, Victoria, 3865
Australia

Mon-Fri 9am-5pm (AEDT)
Telephone: (03) 5157 1203
Fax: (03) 5157 1641
Email: sales@zcg.com.au

Queensland Office and Warehouse

Unit 14, 8-14 St Jude Court
Browns Plains
Queensland, 4118
Australia

Mon-Fri 8.00am-4.00pm (AEST)
Telephone: (07) 3800 1204
Fax: (07) 3800 3651
Email: qldsales@zcg.com.au

Western Australian Office and Warehouse

Unit 3, 32-34 Vinnicombe
Drive
Canning Vale, WA, 6155
Australia

Mon-Fri 8.30am-4.30pm (AWST)
Telephone: (08) 6253 8950
Fax: (08) 6253 8645
Email: wasales@zcg.com.au

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