ZCG

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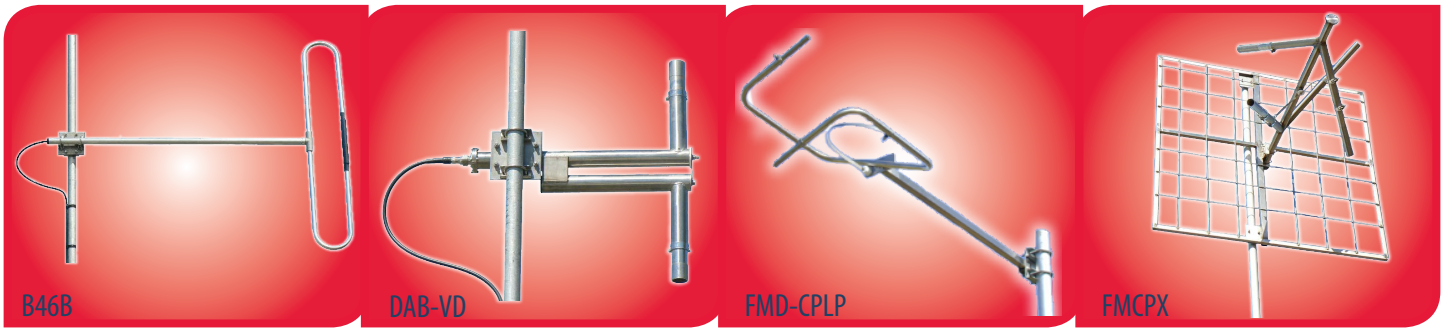
FM/DAB RADIO BROADCAST



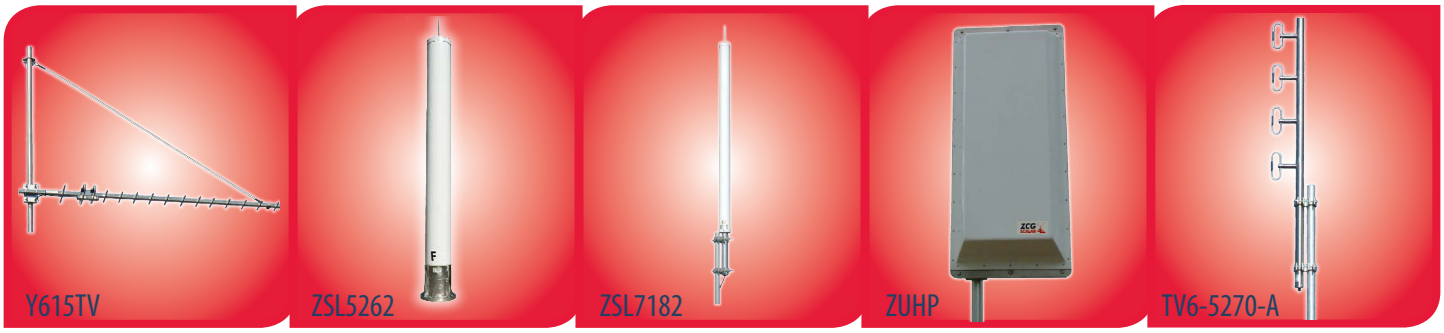
ZCG's range of radio broadcast antennas include sidemount dipoles, digital audio broadcast (DAB) high power dipoles and mixed polarised dipoles for all your radio broadcasting requirements.

- **Sidemount dipoles** are an ideal choice for use as an FM radio broadcast antenna. They are of reliable construction, cover a broad bandwidth and permit single antenna sharing with multiple FM transmit frequencies. ZCG's range of **B46** FM radio sidemount dipoles is listed below.
- **Mixed polarised dipoles** are an excellent choice for single FM radio station local area coverage. Community broadcast groups with a limited budget will find these an affordable and effective option.
- **Digital audio broadcast (DAB) high power dipoles** including the **DAB-VD** model listed below have been specifically developed to be used in a pressurised system.
- All of our broadcast products come with a 2 year warranty.
- **Filters and multicouplers, mounting hardware, coaxial feeder cable and connectors are all available separately.**

	FM RADIO SIDEMOUNT DIPOLES			DAB HIGH POWER DIPOLES	
Specifications	**B46B**	**B46BSS**	**B46BHPSS**	**DAB-VD-716**	**DAB-VD-78**
Construction	Aluminium	304 Stainless Steel			
Frequency Range	FM 87.5-108MHz			DAB+ Radio 174-230MHz	
Bandwidth	Full frequency range stated		10MHz - specify	50MHz - specify when ordering	
VSWR	Better than -17 dB		Better than -20 dB	Better than 1.2:1 across specified bandwidth	
Gain	0 dB for a single bay, stacking increases gain				
Connector	N-type female		7/16" DIN female	7/16" DIN female	7/8" EIA flanged
Maximum Power	500 Watts per bay		2 Kilowatts per bay	2 Kilowatts per bay	5 Kilowatts per bay

	MIXED POLARISED DIPOLES		CIRCULAR POLARISED FM RADIO DIPOLES		
Specifications	**FMD-CPLP**	**FMD-CPHP**	**FMCPX-78**	**FMCPX-716**	**FMCPX-N**
Construction	Fully-welded 304 stainless steel				
Frequency Range	FM 87.5-108MHz				
Bandwidth	500kHz/single FM broadcast frequency - specify		A = 87.5-96MHz B = 93.5-102.5MHz C = 99.7-108MHz		Specify 5MHz
VSWR	Better than 1.2:1 across specified bandwidth				
Gain	-3 dB for a single bay, stacking increases gain		0 dB per bay, stacking increases gain		
Connector	N-type female	7/16" DIN female	7/8" EIA flanged	7/16" DIN female	N-type female
Maximum Power	500 Watts per bay	1 Kilowatt per bay	5 Kilowatts	2 Kilowatts	500 Watts

TV BROADCAST



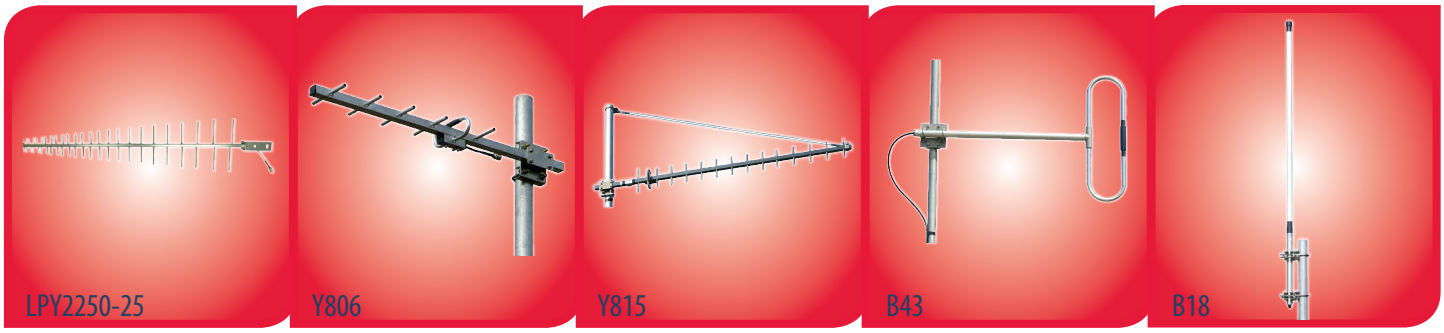
ZCG's range of TV broadcast antennas include dual dipole yagis, horizontal UHF TV slot antennas and to meet your exacting TV broadcasting needs.

- The **Y600-TV** series of **dual dipole yagis** are designed and manufactured to deliver genuine broadband coverage of the UHF TV Band IV and V.
- Featuring a horizontal radiation pattern and high gain, the **ZSL-series of slot antennas** are designed for UHF TV broadcast.
- The **ZUHP horizontal polarised broadband panel** covers the entire UHF TV band IV and V.
- The **TV6-5282** series of **UHF TV 4-stack dipole arrays** are designed and manufactured for wide-band vertically polarised TV transmission where high gain is required.
- All of our broadcast products come with a 2 year warranty.
- **Filters and multicouplers, mounting hardware, coaxial feeder cable, connectors are all available separately.**

	UHF TV DUAL DIPOLE YAGI	HORIZONTAL UHF TV SLOT					
Specifications	**Y615TV**	**ZSL5262**	**ZSL5262-MP**	**ZSL5262-HP**	**ZSL6172**	**ZSL6172-MP**	**ZSL6172-HP**
Construction	Aluminium/Stainless Steel	White radome, aluminium mount tube					
Frequency Range	UHF TV band IV and V 520-700MHz	520-620MHz (Ch 27-40)			610-700MHz (Ch 40-52)		
Bandwidth	15 consecutive channels (105MHz) (specify)	Full frequency range stated					
VSWR	<1.2:1 across specified bandwidth	Better than 1.2:1 across the channel range					
Gain	12.1 dBd	9.5 dBd					
Connector	N-type female	N-type female	7/16" DIN female	7/8" EIA flanged	N-type female	7/16" DIN female	7/8" EIA flanged
Maximum Power	50 Watts	200 Watts	2 Kilowatts	3 Kilowatts	200 Watts	2 Kilowatts	3 Kilowatts

	HORIZONTAL UHF TV SLOT			HORIZONTAL POLARISED UHF TV PANEL	UHF TV DIPOLE 4-STACK ARRAY	
Specifications	**ZSL7182**	**ZSL7182-MP**	**ZSL7182-HP**	**ZUHP**	**TV6-5270-A**	**TV6-5270-B**
Construction	White radome, aluminium mount tube		White radome, flange mount	White radome, aluminium back screen	304 stainless steel	
Frequency Range	708-820MHz (Ch 54-69)			UHF TV band IV and V 520-700MHz (Channel 27-69)	520-650MHz (Ch 27-43)	590-700MHz (Ch 38-54)
Bandwidth	Full frequency range stated					
VSWR	Better than 1.2:1 across the channel range					
Gain	9.5 dBd			11 dBd	7.5 dBd	
Connector	N-type female	7/16" DIN female	7/8" EIA flanged	N-type female	N-type female in base of mount tube - no cable	
Maximum Power	200 Watts	2 Kilowatts	3 Kilowatts	250 Watts per bay - higher power versions available	250 Watts - for 500 Watts add -MP when ordering	

BASE STATION



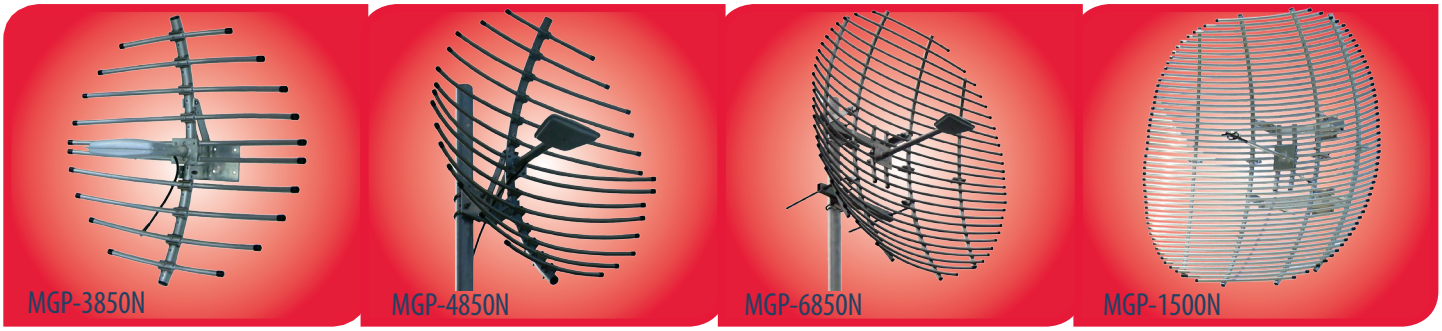
ZCG's comprehensive range of Base Station Antennas is built to full commercial standard using only the finest quality components. There are antenna models designed for numerous RF applications across the Airband, VHF and UHF communication frequencies.

- For applications requiring genuine broadband coverage the **LPY2250 and LPY2250-25 log periodic yagis** provide exceptionally broad bandwidth coverage across their full frequency ranges.
- The **CM range of mast mount models** offer maximum gain and reception range in an omni-directional, mobile phone base station antenna.
- The **Y800 series of base station Yagis** can be manufactured to cover any 60MHz you require within the frequency range 700 to 960MHz or select from our set frequency range.
- The **DUA4052 binary dipole arrays** offer both an omni-directional radiation pattern and genuine broadband coverage across the entire UHF frequency range. The array is ideally suited for multiple frequency transmissions at highly populated radio sites.
- For Airband, VHF and UHF communications, the **B42/43/44 range of sidemount dipole base station antennas** deliver good gain and are factory-tuned to cover an entire band at less than 1.5:1 VSWR.
- **The B14 and B18 omni-directional coaxial dipoles** are for use in the 118 to 137MHz Airband frequency range. Specify any 3% bandwidth you require and your dipole will be manufactured and tuned accordingly at better than 1.5:1 VSWR.
- **Filters and multicouplers, mounting hardware, coaxial feeder cable and connectors are all available separately.**

	LOG PERIODIC YAGIS		MAX GAIN MAST MOUNT			Square and round boom Yagis		
Specifications	**LPY2250**	**LPY2250-25**	**CM1600AM-4GX**	**CM1600AM**	**CMG1600AM**	**Y806**	**Y809**	**Y815**
Construction	Stainless steel		White fibreglass radome, stainless steel mount section			Aluminium, or add SS for 304 stainless steel Also available in round boom - add -R		
Frequency Range	850-2250MHz	650-2250MHz	4G LTE 700-788MHz	4G/3G 825-890MHz	4G/3G 890-960MHz	700-960MHz		
Bandwidth	Full frequency range stated		Full frequency range stated			Specify any 60MHz or transmit and receive when ordering		
VSWR	Less than 2:1 across full frequency range		<1.5:1			Better than 1.5:1 across specified bandwidth		
Gain	8 dBi	10.2 dBi	8.1 dBi			9 dBd	11.5 dBd	14 dBd
Connector	BNC female - others available, please specify		N-type female in base of mount section			N-type female fitted to 250mm RG59 cable tail		
Maximum Power	250 Watts		20 Watts			50 Watts		

	UHF BINARY DIPOLE ARRAY		SIDEMOUNT DIPOLES			AIRBAND COAXIAL DIPOLES	
Specifications	**DUA4052AL**	**DUA4052SS**	**B42**	**B43**	**B44**	**B14**	**B18**
Construction	Aluminium	304 stainless steel	Aluminium, or add SS for 304 stainless steel			White radome, aluminium mount section	White radome, stainless steel mount section
Frequency Range	UHF 400-520MHz		Airband 118-137MHz	VHF high band 148-174MHz	UHF 400-520MHz	Airband 118-137MHz	
Bandwidth	Full frequency range stated					Specify any 3% or transmit and receive when ordering	
VSWR	Better than 1.5:1 across full band						
Gain	3 dBd		0 dBd for a single bay, stacking increases gain			0 dBd	
Connector	N-type female fitted to external cable					N-type female in base of mount section	
Maximum Power	500 Watts		250 Watts			100 Watts	

STL LINK



ZCG's range of STL link gridpack antennas are available in a wide range of frequency bands to suit all requirements and allocations.

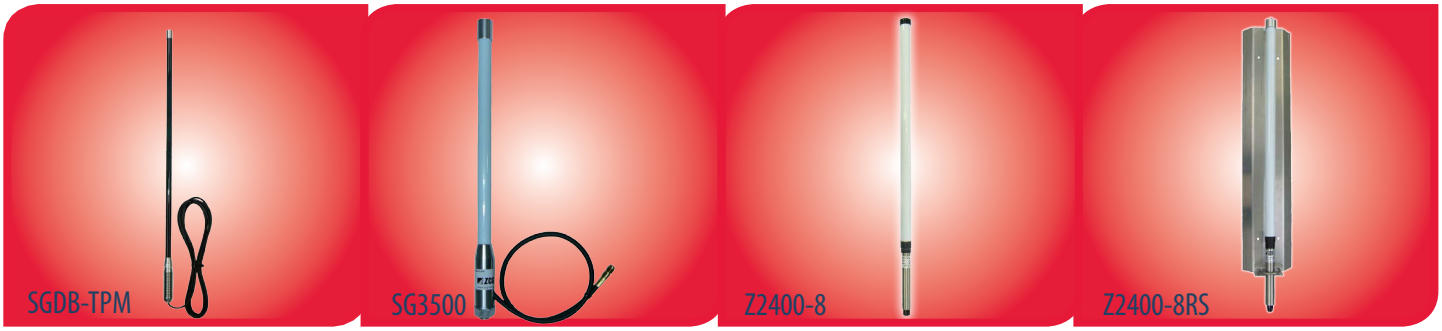
- Smaller 900mm or 1.2metre diameter STL links consist of multi-pieces for a flat-pack design
- Larger 1.8 metre diameter STL link constructured of a 2-piece rear screen design for ease of assembly.
- The **820-960MHz STL link are full frequency range, but centred for STL link 850MHz** designed for wireless data applications in the ISM 2.4 range.
- **Coaxial feeder cable, water-proofing, bird proofing and other installation accessories are all available separately.**

	3' or 0.9 metre	4' or 1.2 metres	6' or 1.8 metres	
Specifications	**MGP-3850N**	**MGP-4850N**	**MGP-6850N**	**MGP-1500N**
Construction	Multi-piece corrosion resistant aluminium and launcher unit		2-piece aluminium rear screen and launcher unit	
Frequency Range	820-960MHz			1.4-1.55GHz
Bandwidth	Full frequency range stated - centred for 850MHz			Full frequency range stated
VSWR	<1.5:1 full frequency range stated			
Gain	15.4 dBi	18.5 dBi	22.2 dBi	26.3 dBi
Beamwidth - maximum	25.3°	20°	12°	10°
Connector	N-type female fitted to cable		N-type female in rear of launcher unit	
Maximum Power	100 Watts			

	4' or 1.4 metres		6' or 1.8 metres	
Specifications	**MGP-4650N**	**MGP-4750N**	**MGP-6400N-PIM**	**MGP-6750N**
Construction	Multi-piece corrosion resistant aluminium and launcher unit		2-piece aluminium rear screen and launcher unit	
Frequency Range	570-670MHz	700-820MHz	500-520MHz	700-800MHz
Bandwidth	Full frequency range stated			
VSWR	<1.5:1 full frequency range stated			
Gain	15.4 dBi	18.5 dBi	22.2 dBi	26.3 dBi
Beamwidth - maximum	23°	22°	24°	12°
Connector	N-type female fitted to cable			N-type female in rear of launcher unit
Maximum Power	100 Watts			

	8' or 2.4 metres		6' or 1.8 metres	
Specifications	**MGP-8700N**	**MGP-6800N**	**MGP-6600N**	**MGP-1721N**
Construction	2-piece aluminium rear screen and launcher unit			
Frequency Range	700MHz	800-820MHz	520-700MHz	1.71-2.1GHz
Bandwidth	Full frequency range stated			
VSWR	<1.5:1 full frequency range stated			
Gain	18.1 dBi	22.2 dBi	19 dBi	22.2 dBi
Beamwidth - maximum	18.75°	12°	20°	12°
Connector	N-type female in rear of launcher unit			
Maximum Power	100 Watts			

WIRELESS DATA



ZCG's range of wireless data antennas include multiband, omidirectional, stud and mast mount antennas to suit all of your wireless data applications.

- For wireless data applications anywhere across the 4G and 3G mobile phone frequency range 825 to 960 MHz and 1710 to 2190 MHz, our popular **SGDB-TPM multiband antenna top** with 6.2 dBi gain offers an effective solution.
- The ground independent C-band 5G **SG3500 omni-directional wireless data collinear** is specifically designed for 3.4-3.6GHz frequency range.
- The **Z2400-8 range are omni-directional stud or mast mount collinears** designed for wireless data applications in the ISM 2.4 range.
- The rear reflector screen fitted to the **Z2400-8RS** model restricts the radiation pattern emitted at the rear of the antenna.
- **Coaxial feeder cable, water-proofing, bird proofing and other installation accessories are all available separately.**

	Multiband 4G LTE/4G	5G thread mount collinear	ISM 2.4 COLLINEAR MAST MOUNT	ISM 2.4 COLLINEAR WITH REAR SCREEN
Specifications	**SGLWB**	**SG3500**	**Z2400-8**	**Z2400-8RS**
Construction	Black or White fibreglass radome and aluminium ferrule		White fibreglass radome and 304 stainless steel mount section	White fibreglass radome, 304 stainless steel mount section and aluminium rear reflector screen
Frequency Range	Multiband 4G LTE and 4G/3G	C-Band 5G 3.4-3.6GHz	ISM 2.4-2.5GHz	
Bandwidth	Full frequency range stated			
VSWR	<2.5:1 across full frequency range	<1.8:1 across full frequency range	<1.5:1 full frequency range stated	
Gain	2.1 dBi	6 dBi	10 dBi	13 dBi - with screen fitted
Connector	FME female fitted to 4.7m cable	SMA male fitted to 500mm cable	N-type female in base of mount section - no cable	
Maximum Power	10 Watts	20 Watts	50 Watts	50 Watts

ACCESSORIES

ZCG stocks a range of accessories including filters and multicoupling, cable, connectors, power dividers, adapters, lightning protection and mounting hardware to make your antenna installation as efficient as possible.

ZCG is an Australian family-owned business operating since 1970. We manufacture hundreds of antenna models to suit your RF communication and broadcasting requirements. The design and development of new products is always an ongoing process for our in-house Research and Development department.

Our product range includes Base station, radio and TV broadcast, filters and multicoupling, vehicle mounted mobile phone, CB radio, VHF, marine, wireless data and hand portable antennas.

In the majority of cases ZCG will have an antenna designed to serve your purposes. If not, you are welcome to enquire and we will consider special designs to meet your specific requirements.

Because we design and assemble our antennas in-house, quality control is monitored at every step of the process. We provide exceptional quality, superior performance, prompt delivery and meaningful customer service relationships.

We take pride in every product we design and manufacture. Our reputation has been built upon these high standards.