

ZVP-DAB Series

Vertically Polarised high powered panel

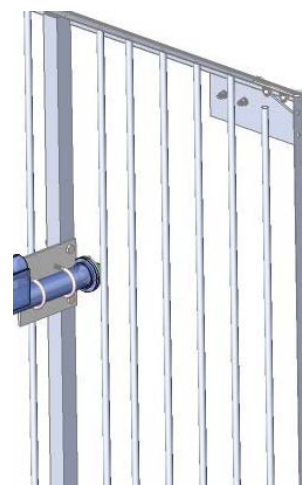
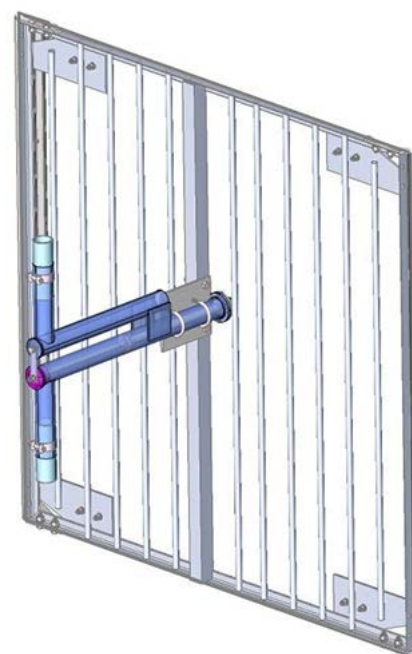
VHF Digital TV band III / DAB Radio 174-230 MHz

The ZVP-DAB series of vertically polarised panels cover the entire VHF Digital TV band III/DAB Radio band 174-230 MHz.

The ZVP-DAB series consist of a single vertical dipole, fully welded open grid rear screen and mounting hardware for dipole and rear screen, additional structure mounting, feeder cables and power dividers are not included.

Cavity filters, coaxial feeder cable, lightning protection, water proofing and other installation accessories are all available separately.

SKU	ZVP-DAB	ZVP-DAB-78
Construction	304 stainless steel rear screen and 304 stainless steel vertical dipole	
Frequency range	174-230 MHz - VHF digital TV band III/D.A.B. Radio	
Bandwidth	Full frequency range stated - 56 MHz	
VSWR	<1.2:1	
Tuning	Factory	
Polarisation	Vertical	
Gain - nominal	3.9 dBd	
Maximum power	2.0 Kilowatts	3.8 Kilowatts
Impedance	50 Ohms	
DC grounding	Yes	
H Plane	94°	
E Plane	66°	
Power divider input	7/16" DIN female connector at rear of antenna	7/8" EIA flanged connector at rear of antenna
Panel dimensions	1300mm x 1300mm	
Weight	26.0kg	
Projected area	0.339m ²	
Wind load at 160kph	41.042 kg, 0.402 kN	
Design maximum wind speed	160 km/h	
Mounting hardware supplied	304 stainless steel U-bolts with 50-60mm capability	
Warranty	2 Years	



50-60mm capable mounting U-bolts located in all four corners of screen for direct tower mounting or utilising tower mounting hardware such as stand-off poles/clamps.

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Mechanical Data

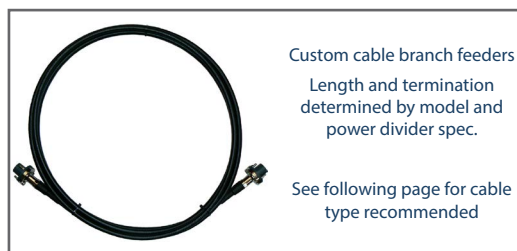
Height of array	Subject to configuration
Total net weight	Refer to table
Wind Load	Refer to table
Mounting hardware	4 x mounting plates on screens with included U-bolts

Technical Data - ZVP-DAB / ZVP-DAB-78

Configuration	Gain - dBd	Weight - kg	Antenna height L - m	Wind load - kN
1 screen	3.9	26	1.3	0.402
2 screens	6.9	52	2.85	0.804
4 screens	9.9	104	5.95	1.608
6 screens	11.4	156	9.05	2.142
8 screens	12.9	208	12.15	3.216

- Gain: referred to half wave dipole, losses of power through cable or power dividers not included
- Weight: does not include external joining power dividers, brach feeder coaxial cables, mount poles or mounting hardware
- Wind load: V = 160km/h

Array requirements



ZVP-DAB Suitable Power Divider/Splitter



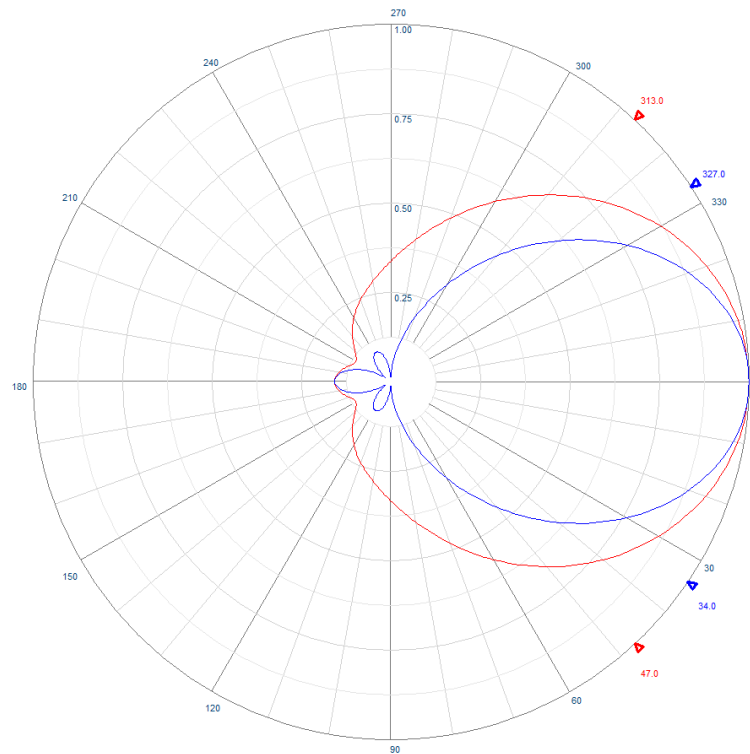
ZVP-DAB-78 Suitable Power Divider/Splitter



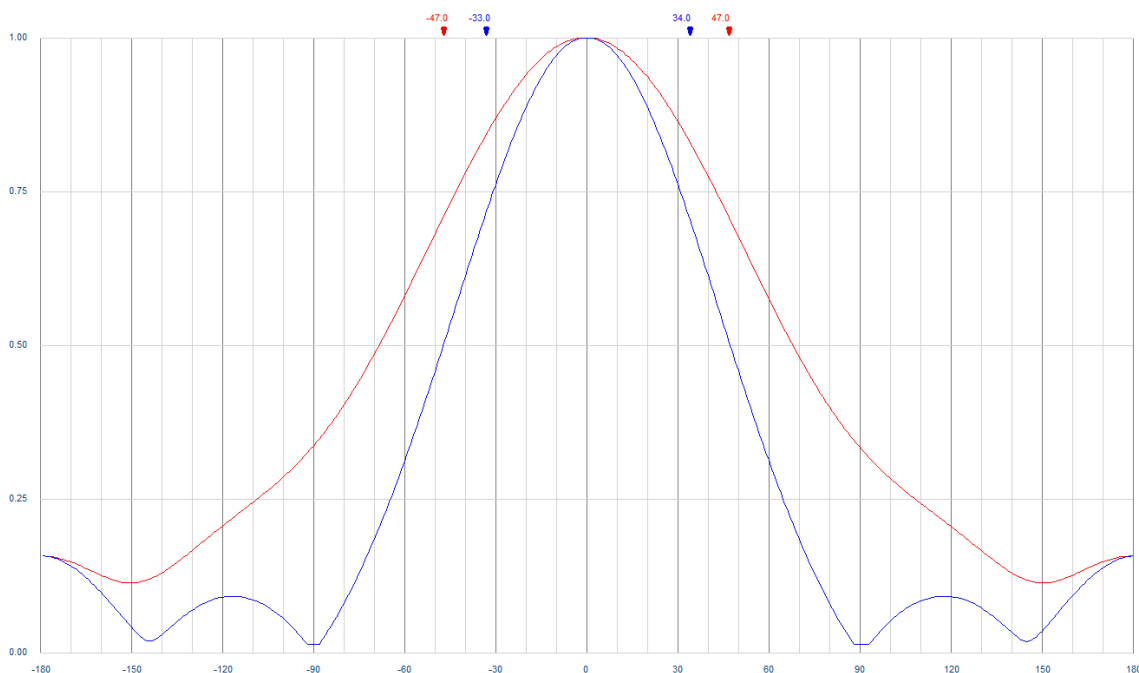


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Example polar radiation pattern - Single panel




Example cartesian radiation pattern - Single panel



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Suitable mounting hardware



SKU: MHP-21115

Custom manufactured
monopole head platform.

ZCG can custom manufacture
any tower antenna support
structure

Suitable feeder coaxial cable and connectors

 <p>SKU: ZCG1250 1/2" corrugated shielding, foam dielectric coaxial cable SKU: ZCG1250SF - helical super flex. Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>SKU: 78EIA1250 7/8" EIA flanged clamp connector for 1/2" flexible, corrugated shielded, coaxial cable Nickel plated</p>
 <p>SKU: GK1250 1/2" corrugated shielding, foam dielectric coaxial cable grounding kit ZCG recommend installation of grounding kits at minimum top and bottom of cable run.</p>	 <p>SKU: SHC1250 1/2" corrugated shielding, foam dielectric coaxial cable snap-in cable clamps Qty 10 per pack ZCG recommend installation of snap-in cable clamps at minimum 1.0m spacings along cable run.</p>
 <p>SKU: ZCG7850 7/8" corrugated shielding, foam dielectric coaxial cable also available in Air-dielectric Available in per metre, 500m roll or alternatively request a custom cable assembly</p>	 <p>SKU: 78EIA7850 7/8" EIA flanged clamp connector for 7/8" flexible, corrugated shielded, coaxial cable Nickel plated</p>
 <p>SKU: GK7850 7/8" corrugated shielding, foam dielectric coaxial cable grounding kit ZCG recommend installation of grounding kits at minimum top and bottom of cable run.</p>	 <p>SKU: SHC7850 7/8" corrugated shielding, foam dielectric coaxial cable snap-in cable clamps Qty 10 per pack ZCG recommend installation of snap-in cable clamps at minimum 0.5-1.0m spacings along cable run.</p>
 <p>SKU: HS1250 1/2" corrugated shielded, foam dielectric coaxial cable hoist stocking</p>	 <p>SKU: HS7850 7/8" corrugated shielded, foam dielectric coaxial cable hoist stocking</p>