



Z1100-8 and Z1280

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



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

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

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

SKU	Z1100-8	Z1280
Construction	White fibreglass parallel radome, 304 grade stainless steel mount section and external termination	
Frequency range	1.0-1.1 GHz - UHF including ADS-B at 1090MHz	1.27-1.29 GHz - UHF
Bandwidth	Full frequency range stated	
VSWR	<1.5:1	
Tuning	Factory	
Gain	10 dBi	
Maximum power	50 Watts	
Impedance - nominal	50 Ohms	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	360° omnidirectional ± 0.5 dBd	
E Plane	20°	18°
Connector	N-type female at base of mount section - no cable	
Height	1.7m	1.24m
Weight	750grams	700grams
Wind load at 160kph	0.038kN, 3.918kg	0.028kN, 2.858kG
Projected area	0.032m ²	0.024m ²
Mount section	240mm x 25mm ϕ - 304 stainless steel	
Mounting hardware order separate	Parallel: 2 x EB1- SS or 1 x UB3-SS Right-angle: 2 x RB8 or 1 x UB2-SS	
Mounting position recommended	Mount as high on your structure or tower as possible using appropriate mounting hardware. Ensure not obstructions around antenna by minimum 500mm	



Z1100-8



Z1280



Stainless steel mount section at base of radome.

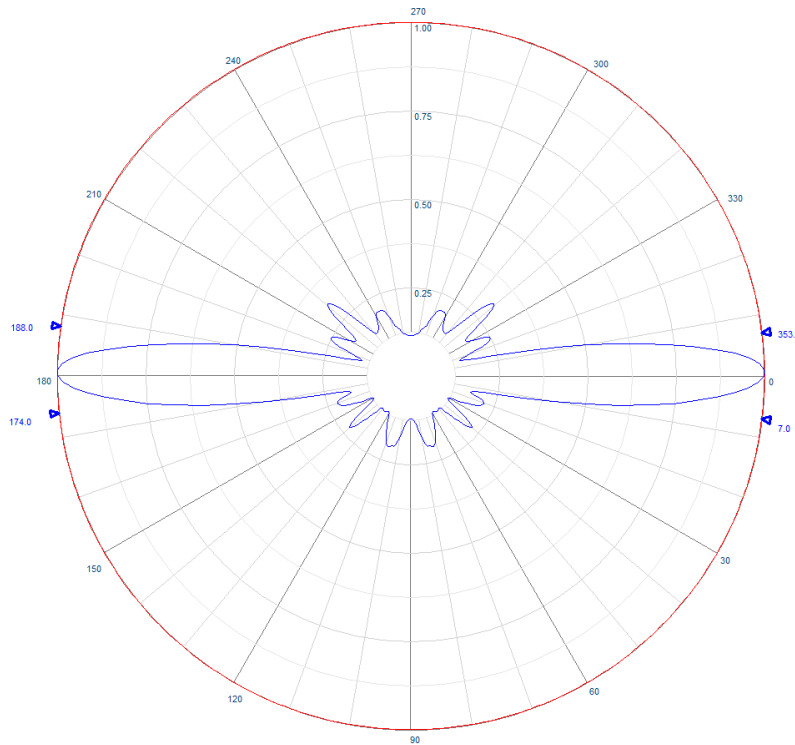


N-type female jack at base of mount section.



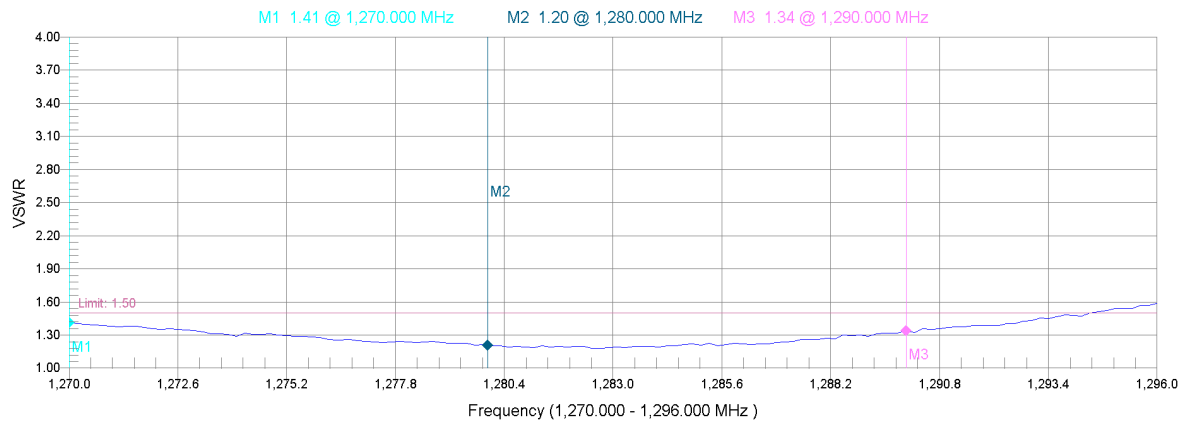
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Example radiation pattern - Z1280

Typical VSWR Z1280 1.27-1.29GHz



Typical VSWR - Z1280


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SKU: CFB1100 / CFB1800 / CFB2400 / CFB2700
Galvanised steel 'J' hockey stick brackets, 1.1 - 2.7 metres.

Requires 2 x EB1-SS or 1 x UB2-SS



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

Requires 2 x EB1-SS or 1 x UB2-SS




SKU: SFB900
Galvanised steel straight extension brackets - 900mm or specify length requirements

Requires 2 x EB1-SS or 1 x UB2-SS for antenna mounting



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



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



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

Suitable feeder coaxial cable and connectors



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



SKU: 8226
N-type male crimp connector for RU400 low loss, solid conductor

Tri-metal plated



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



SKU: NM-8226-2
N-type male crimp connector for RU600 low loss, solid conductor

Tri-metal plated



SKU: ZCG1250
1/2" corrugated shielding, foam dielectric coaxial cable
SKU: ZCG1250SF - 1/2" super flex.
Available in per metre, 500m roll or alternatively request a custom cable assembly



SKU: NM1250
N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable
SKU: NM1250SF - 1/2" super flex.
Tri-metal plated