



FM-ZCPD series

FM Radio high power dipole panel



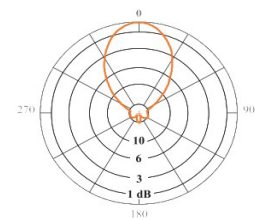
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The FM-ZCPD is a medium to high power dipole panel antenna for FM Radio broadcast, designed to be installed into an array this panel offers mixed or circular radiation patterns.

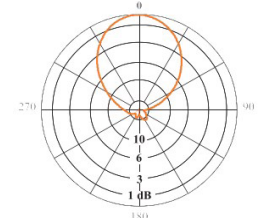
Coaxial feeder cable, connectors and other installation accessories are all available separately.



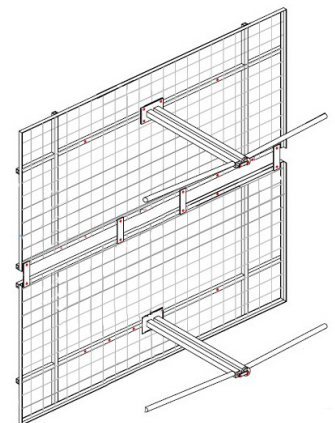
	FM-ZCPD-W	FM-ZHPD
Construction	Galvanised steel rear screen and 304 stainless steel dipole/s	
Frequency range	87.5-108 MHz - FM Radio	
Number of dipoles	4	2
Bandwidth	Full frequency range stated - 20.5 MHz	Specify 10 MHz
Tuning	Factory	
VSWR	<1.2:1	
Gain	4.5 dBd per plane	7.5 dBi
Maximum power	Per dipole: 7/16" DIN female: 2kW or 7/8" EIA: 5kW	
Impedance - nominal	50 Ohms	
DC grounding	Yes	
Polarisation	Circular or Mixed	Horizontal only
H Plane	65°	
Connector	4 x 7/8" EIA or 4 x 7/16" DIN female - please specify	2 x 7/8" EIA or 2 x 7/16" DIN female - please specify
Panel size (L x W)	2.2 metres x 2.2 metres	
Weight	76kg	69kg
Projected area	1.131m ²	1.055m ²
Wind load at 160kph	139.9kg, 1.372kN	130.5kg, 1.279kN
Mounting	4 x mounting plates - order U-bolts or bolts	
Mounting hardware	U-bolts - order separate to suit requirements, contact ZCG	
Warranty	2 Years	



H-Plane



E-Plane



FM-ZHPD horizontal panel



FM-ZCPD series

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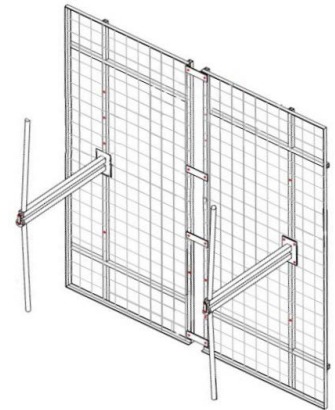


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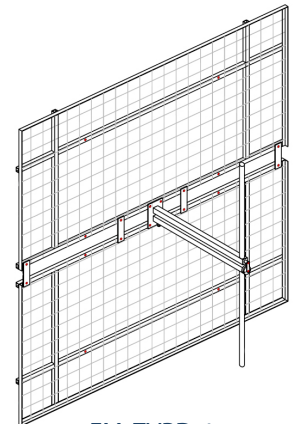
The FM-ZCPD is a medium to high power dipole panel antenna for FM Radio broadcast, designed to be installed into an array this panel offers mixed or circular radiation patterns.

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

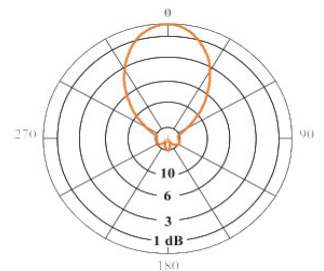
	FM-ZVPD	FM-ZVPD-1
Construction	Galvanised steel rear screen and 304 stainless steel dipole/s	
Number of dipoles	2	1
Frequency range	87.5-108 MHz - FM Radio	
Bandwidth	Specify 10MHz	
Tuning	Factory	
VSWR	<1.2:1	
Gain	6.5 dBd	5.4 dBd
Maximum power	Per connector: 7/16" DIN female: 2kW or 7/8" EIA: 5kW	
Impedance - nominal	50 Ohms	
DC grounding	Yes	
Polarisation	Vertical	
H Plane	65°	Consult ZCG
Connector	2 x 7/8" EIA or 2 x 7/16" DIN female - please specify	1 x 7/8" EIA or 1 x 7/16" DIN female - please specify
Panel size (L x W)	2.2 metres x 2.2 metres	
Weight	69kg	60kg
Projected area	1.055m ²	1.018m ²
Wind load at 160kph	130.5kg, 1.279kN	125.9kg, 1.234kN
Mounting	4 x mounting plates - order U-bolts or bolts	
Mounting hardware	U-bolts - order separate to suit requirements, contact ZCG	
Warranty	2 Years	



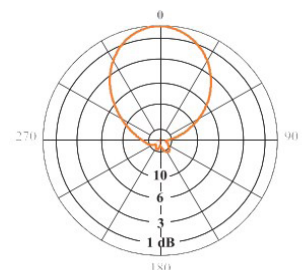
FM-ZVPD



FM-ZVPD-1



H-Plane



E-Plane



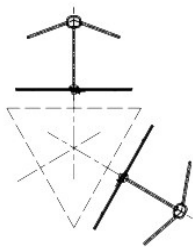
FM-ZCPD series FM Radio high power dipole panel



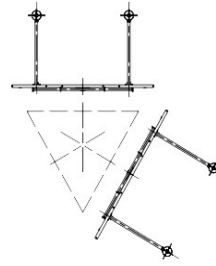
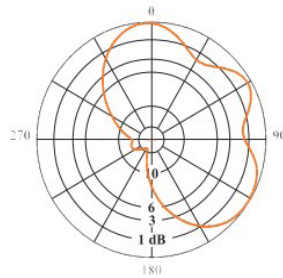
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The FM-Z*PD series of panels can be arranged to suit all arrays of towers from triangular to square. Steel work for mounting is not supplied with your antennas and should be ordered/sourced separately.

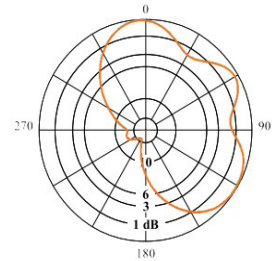
Omni-directional patterns can be obtained by mounting antennas on all sides of the structure/tower.



Horizontal Component of Field.

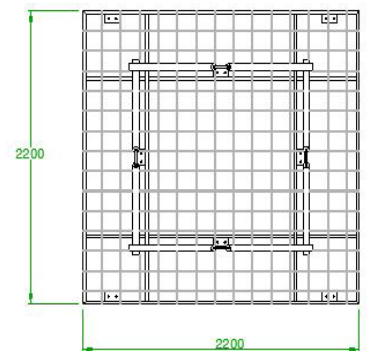


Vertical Component of the field.



FM-ZCPD array configurations

Number of bays	Antennas per bay
1	1-4
2	1-4 (2-8 in total depending on configuration)
4	1-4 (4-16 in total depending on configuration)
6	1-4 (6-24 in total depending on configuration)
8	1-4 (8-32 in total depending on configuration)
Maximum power	15kW per 7/8" EIA panel or 8kW per panel for 7/16" Din
Impedance	50 Ohms - nominal
DC grounding	Yes
Polarisation	Circular/ mixed
Installation requirements	Power Divider/splitter - consult ZCG Branch feeder coaxial cables - consult ZCG





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Suitable feeder coaxial cable and connectors



1/2" super flexible helical shielded, foam dielectric coaxial cable
P/N ZCG1250SF

Available in per metre, 500m roll or alternatively request a custom cable assembly



Low PIM 7/16" DIN male clamp-style connector for 1/2" helical shielded, foam dielectric coaxial cable

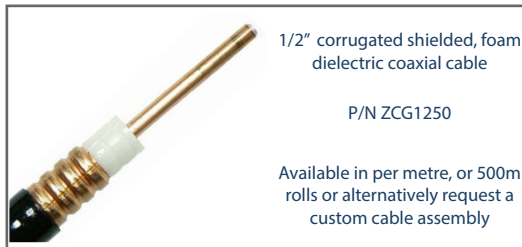
P/N 716DINM1250SF

Tri-metal plated



7/8" EIA flanged clamp-style connector for 1/2" helical shielded, foam dielectric coaxial cable

P/N 78EIA1250SF



1/2" corrugated shielded, foam dielectric coaxial cable

P/N ZCG1250

Available in per metre, or 500m rolls or alternatively request a custom cable assembly



Low PIM 7/16" DIN male clamp-style connector for 1/2" corrugated foam dielectric coaxial cable

P/N 716DINM1250

Tri-metal plated



7/8" EIA flanged clamp-style connector for 1/2" corrugated foam dielectric coaxial cable

P/N 78EIA1250



7/8" corrugated shielding, foam dielectric coaxial cable

P/N ZCG7850

Available in per metre, or 500m rolls or alternatively request a custom cable assembly



Low PIM 7/16" DIN male clamp-style connector for 7/8" corrugated foam dielectric coaxial cable

P/N 716DINM7850

Tri-metal plated



7/8" EIA flanged clamp-style connector for 7/8" corrugated foam dielectric coaxial cable

P/N 78EIA7850