

Band II dipole vertical polarization antenna system • Side-mounted installation
For extreme weather conditions

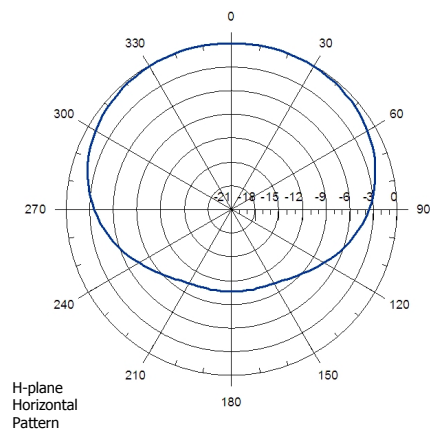
Electrical Specifications

Frequency range	87.5-108 MHz		
Peak gain	1.13 dB (ref. $\lambda/2$ dipole, free space) 3.08 dB (ref. $\lambda/2$ dipole, with pole)		
3 dB beam width	E-plane: 75°	H-plane: 169°	
Polarization	Vertical		
Impedance	50 Ohm		
VSWR	$\leq 1.2:1$		
Maximum power handling	2.5 kW	5 kW	7 kW
Connector type	DIN 7/16	EIA 7/8"	DIN 13/30
Pressurization	Non pressurized	Gas barrier on input connector	



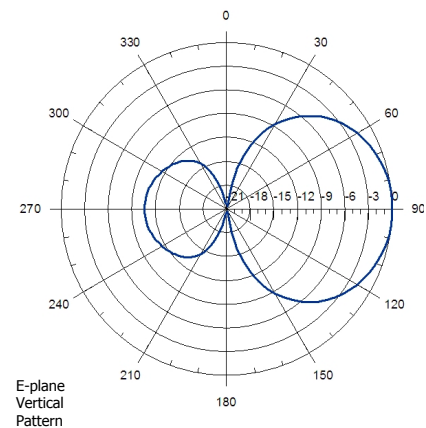
Mechanical & Environmental Specifications

Materials	Dipole Feed points radome	Hot dip galvanized steel Fiberglass
Dimensions (W x D x H)	200 x 1105 x 1440 mm	
Maximum wind speed	200 km/h	
Wind load	350 N (@160 km/h)	
Weight	30 kg	
Clamp type	To \varnothing 80 – 115 mm pipe	
Vertical spacing	0.8 λ – 0.9 λ typical	
Grounding	DC grounded	
Temperature range	-40°C to +80°C	
Humidity	100%	



Antenna System Characteristics

Number of Bays	Number ant. per bay	Peak gain (dBd)	Weight (kg)	Wind load (@160 km/h)	System height (mm)
1	1	3.1	30	0.4 kN	1440
2	1	6.1	60	0.7 kN	4049
4	1	9.1	120	1.4 kN	9266
6	1	10.9	180	2.1 kN	14483
8	1	12.1	240	2.8 kN	19701
10	1	13.1	300	3.5 kN	24917
12	1	13.9	360	4.2 kN	30135



NOTES:

- Radiation patterns and gain values at the table are including the effect of supporting pole
- Null fill, beam tilt, harness & feeder losses NOT INCLUDED
- Wind load & weight figures without considering cables, splitters & hardware.