

DAB dipole vertical polarization antenna • Side-mounted installation
For extreme weather conditions

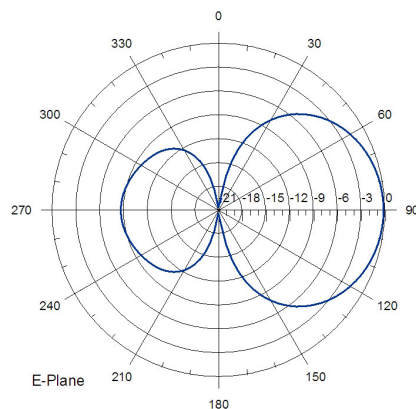
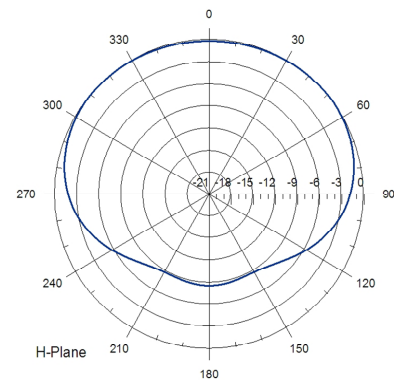
Electrical Specifications

Frequency range	216-240 MHz	
Peak gain	0 dB (ref. $\lambda/2$ dipole) 2.2 dB (ref. $\lambda/2$ dipole, with pole)	
3 dB beam width	E-plane: 79°	H-plane: 200°
Polarization	Vertical	
Impedance	50 Ohm	
VSWR	$\leq 1.2:1$	
Maximum power handling RMS	1.5 kW	
Connector type	DIN 7/16	
Pressurization	Non pressurized	



Mechanical & Environmental Specifications

Materials	Dipole Feed points radome	Hot dip galvanized steel Fiberglass
Dimensions (W x D x H)	50 x 460 x 560 mm	
Maximum wind speed	200 km/h	
Wind load (front)	38 N (@160 km/h)	
Wind load (lateral)	128 N (@160 km/h)	
Weight	12 kg	
Clamp type	To \varnothing 80 – 100 mm pipe	
Vertical spacing	$0.8 \lambda - 0.9 \lambda$ typical	
Grounding	DC grounded	
Temperature range	-40°C to $+80^{\circ}\text{C}$	
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	2.2	12	0.13 kN	560
2	1	5.2	24	0.26 kN	1678
4	1	8.2	48	0.51 kN	3915
6	1	10.0	73	0.77 kN	6152
8	1	11.2	96	1.02 kN	8389
10	1	12.2	120	1.27 kN	10622
12	1	13.0	144	1.53 kN	12858

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.