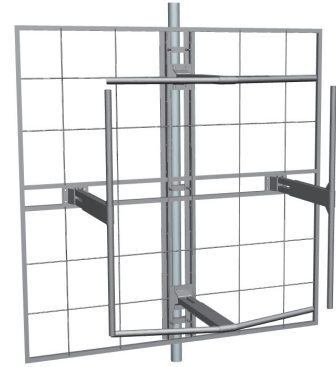


Band II 4 dipoles circular/elliptical polarization panel • Especially suitable for square masts

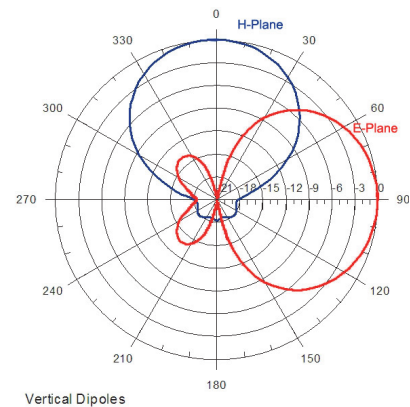
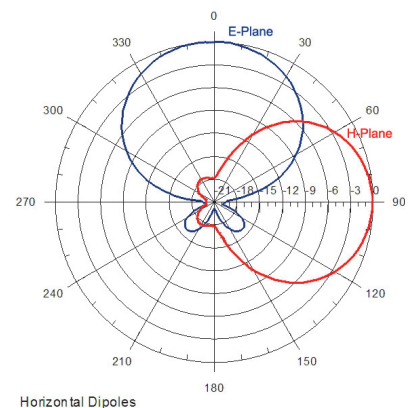
Electrical Specifications

Frequency range	87.5-108 MHz	
Peak gain	7.5 dB (ref. $\lambda/2$ dipole)	
3 dB beam width	Horizontal: 67°	Vertical: 65°
Polarization	Circular / Elliptical (allowing 2 independent signals horizontally & vertically polarized)	
Impedance	50 Ohm	
VSWR	≤1.1:1 (with circular polarization)	
Maximum power handling (per connector)	10 kW (2.5 kW)	20 kW (5 kW)
Connector type (4 per antenna)	4 x DIN 7/16	4 x EIA 7/8"
Pressurization	Non pressurized	Gas barrier on input connector



Mechanical & Environmental Specifications

Materials	Reflector & dipoles Feed points radome	Hot dip galvanized steel Fiberglass
Dimensions (W x D x H)	2200 x 870 x 2200 mm	
Maximum wind speed	200 km/h	
Wind load (front)	1550 N (@160 km/h)	
Wind load (lateral)	1210 N (@160 km/h)	
Weight	75 kg	
Typical mounting	Square arrangement tower	
Clamp type	To Ø 80 – 115 mm pipe	
Vertical spacing	2850 mm	
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	2	4.8	150	2.8 kN	2200
	3	3.0	225	4.0 kN	
	4	1.8	300	4.7 kN	
2	2	7.8	300	5.5 kN	5050
	3	6.0	450	7.9 kN	
	4	4.8	600	9.5 kN	
4	2	10.8	600	11.0 kN	10750
	3	9.1	900	15.9 kN	
	4	7.8	1200	19.0 kN	
6	2	12.6	900	16.6 kN	16450
	3	10.8	1350	23.8 kN	
	4	9.6	1800	28.5 kN	
8	2	13.8	1200	22.1 kN	22150
	3	12.1	1800	31.8 kN	
	4	10.8	2400	38.0 kN	

NOTES:

- Table supplies data up to 8 bays only for simplification purposes; systems with more bays are available.
- Null fill, beam tilt, harness & feeder losses NOT INCLUDED.
- Wind load & weight figures without considering cables, splitters & hardware.

The above specified gain must be understood for circular polarization