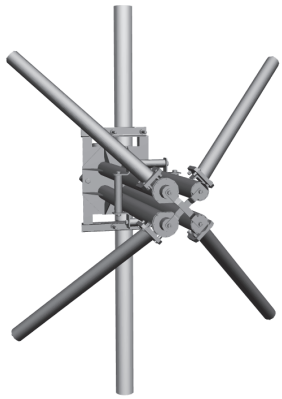
AT12-302

Band II 2 crossed dipoles circular/elliptical polarization antenna system ● Side-mounted installation

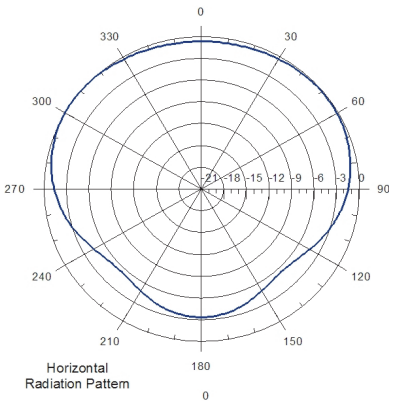
Electrical Specifications

Frequency range	87.5-108 MHz		
Peak gain	0.7 dB (ref. λ/2 dipole, with pole)		
3 dB beam width	Horizontal: 220º	Vertical: 140º	
Polarization	Circular / Elliptical		
Impedance	50 Ohm		
VSWR	≤1.22:1		
Maximum power handling (per connector)	5 kW (2.5 kW)	10kW (5 kW)	14 kW (7 kW)
Connector type (2 per antenna)	2 x DIN 7/16	2 x EIA 7/8"	2 x DIN 13/30
Pressurization	Non pressurized	Gas barrier on input connector	
	Fully pressurized as an option		

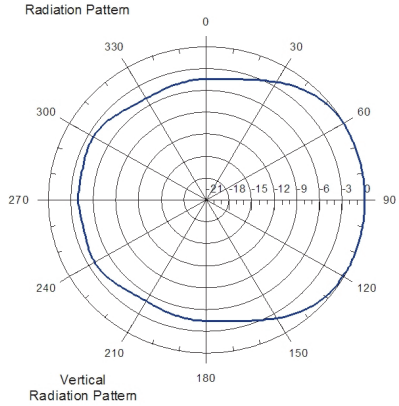


Mechanical & Environmental Specifications

Materials	Hot dip galvanized steel
Dimensions (W x D x H)	924 x 959 x 924 mm
Maximum wind speed	200 km/h
Wind load	315 N (@160 km/h)
Weight	30 kg
Clamp type	To Ø 80 – 115 mm pipe
Vertical spacing	0.8 λ – 0.9 λtypical
Grounding	DC grounded
Temperature range	-40°C to +80°C
Humidity	100%



Horizontal Radiation Pattern



Vertical Radiation Pattern

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	0.7	30	0.3 kN	924
2	1	3.7	60	0.6 kN	3533
4	1	6.7	120	1.2 kN	8750
6	1	8.5	180	1.8 kN	13967
8	1	9.7	240	2.4 kN	19185
10	1	10.7	300	3.0 kN	24405
12	1	11.5	360	3.6 kN	29623

The above specified gain must be understood for circular polarization

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.

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