



Micro Communications, Inc.  
Microwave A MICROWAVE TECHNIQUES COMPANY

# Band II Dipole Antenna Side-Mount Vertical Polarization For Extreme Weather Conditions Model: AT12-512

## Electrical Specifications

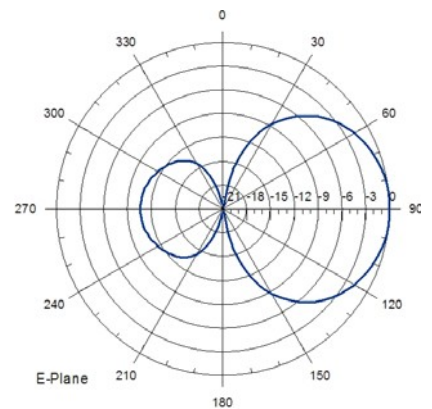
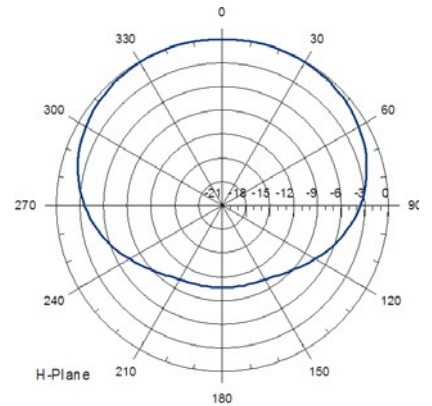
Frequency range	87.5-108 MHz		
Peak gain	1.13 dB (ref. $\lambda/2$ dipole, free space) 3.08 dB (ref. $\lambda/2$ dipole, with pole)		
3 dB beam width	E-plane: 75°      H-plane: 169°		
Polarization	Vertical		
Impedance	50 Ohm		
VSWR	≤ 1.2:1		
Maximum power handling	2.5 KW	5 KW	7 KW
Connector type	DIN 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 Ø 80 – 115 mm pipe
Vertical spacing		0.8 $\lambda$ – 0.9 $\lambda$ 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 included and antenna system peak gain values calculated with pole
- Null fill, beam tilt, harness & feeder losses NOT INCLUDED
- Wind load & weight figures without considering cables, splitters &



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