



Micro Communications, Inc.  
Microwave A MICROWAVE TECHNIQUES COMPANY

# Band I Versatile Antenna System

## Top-Mount Vertical Polarization

### Model: AT11-111

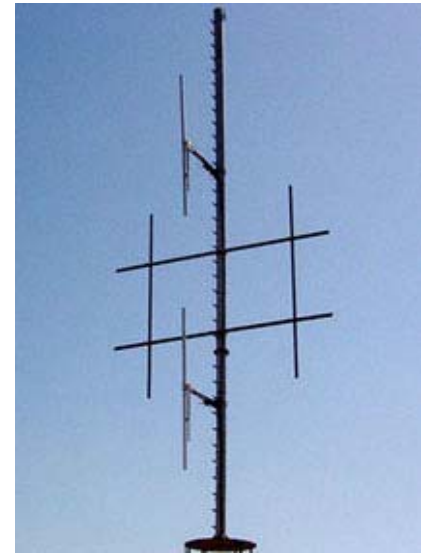
This type of antenna system allows selection of the horizontal radiation pattern in the field that best fulfils a given application using either all or only part of the elements provided in a kit. Upon the number of elements used and the configuration installed, either directional, peanut or quasi-omnidirectional horizontal radiation patterns can be obtained.

The antenna system allows the implementation of a complete secondary low power network in a very short time. The system is top mounted by means of a supporting pipe included in the kit.

Two active and two parasitic dipoles, together with the splitter and dipole-feeding cables complete the kit.

### Electrical Specifications

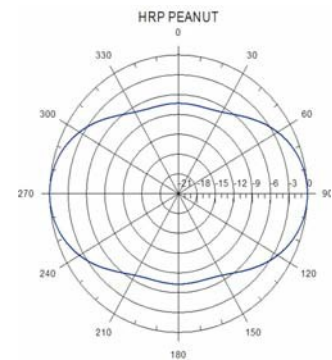
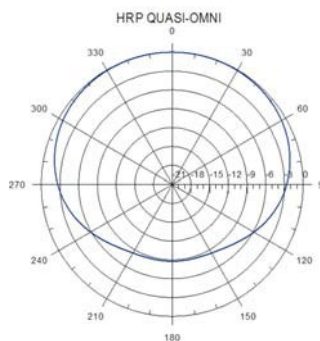
Frequency range	54 - 88 MHz (One model per FCC channel)		
Peak gain	Directional	Peanut	Quasi-omnidirectional
	7.5 dB <small>(ref. <math>\lambda/2</math> dipole)</small>	3.5 dB <small>(ref. <math>\lambda/2</math> dipole)</small>	5.7 dB <small>(ref. <math>\lambda/2</math> dipole)</small>
Polarization	Vertical		
Impedance	50 Ohm		
VSWR	Visual: $\leq 1.22:1$		Aural: $\leq 1.50$
Maximum power handling peak sync	500 W		
Maximum power handling RMS	350 W		
Connector type	DIN 7/16		
Pressurization	Non pressurized		



### Mechanical & Environmental Specifications

Materials	Hot dip galvanized steel		
Configuration	Directional	Peanut	Quasi-omnidirectional
	5940 mm	2340 mm	5940 mm
Aperture of radiating elements	5940 mm	2340 mm	5940 mm
Wind load @160 Km/h (including pipe)	1814 N	1322 N	1322 N
Weight	170 Kg	136 Kg	141 Kg
Maximum wind speed	120 Km/h		
Mounting	Top mounted on pipe		
Grounding	DC grounded		
Temperature range	$-40^{\circ}\text{C}$ to $+80^{\circ}\text{C}$		
Humidity	100%		

NOTE: Mechanical data supplied for the larger system, which corresponds to channel 2 FCC



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