

RADITEK

SATCOM

C & Ku Band Antenna

C-Band & Ku Band

Earth Station Antenna, 9 Meters, Motorized



ELECTRICAL SPECIFICATION				
Diameter	9m			
Operating Frequency, GHz	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
	3.625 ~ 4.2	5.85 ~ 6.425	10.95 ~ 12.75	13.75 ~ 14.5
Gain, Mid-band, dBi	49.66	53.24	59.42	60.35
Polarization	Linear/ Circular		Linear	
XPD (on Axis), dB	35	35	35	35
XPD across 1dB Beam Width, dB	33	33	33	33
Axial Ratio (dB)	≤1.09:1			
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature, 4-port feed				
10° Elevation	37°		63°	
20° Elevation	29°		53°	
40° Elevation	26°		48°	
-3dB Beam Width	0.54	0.36	0.176	0.158
Tx. Power Capability, KW		5		2
Feed Interface	CPR-229G	CPR-159G/137G	WR-75	WR-75
Feed Insertion Loss, dB	Rx : 0.3dB		Tx: 0.35dB	
Isolation, Tx to Rx, dB	85			
Radiation Pattern:First Sidelobe	≤-14, Meet ITU-RS.580-5 and other requirements			
MECHANICAL SPECIFICATION				
Antenna Type	Ring-focus antenna			
Azimuth	±85° (Continuous)			
Elevation	0° ~ 90°(Continuous)			
Finishes:				
Reflector Surface	Aluminum panels with high-diffusing white paint Hot-dipped Galvanized			
Pedestal & Back Structure				
Surface Accuracy (RMS)	≤ 0.5mm			
Antenna Drive	Motorized			
ENVIRONMENTAL SPECIFICATION				
Operational Wind	72km/h Gusting to 97km/h			
Survival Wind	216km/h			
Temperature	- 45°C ~ + 60°C			
Relative Humidity	100%			
Seismic (Survival)	0.3g (H), 0.15g (V)			