

## 9.0 Meter C/Ku Band Earth Station Antenna

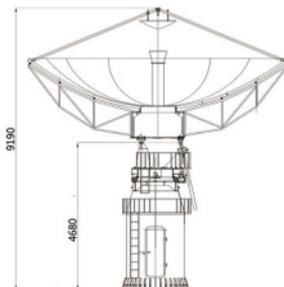
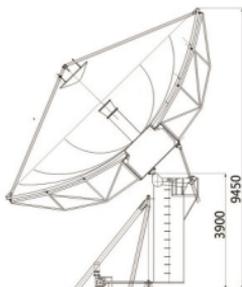


### Features

- Conform to CCIR 580 and INTELSAT Requirements
- High G/T, Excellent Sidelobe Performance
- Hot-dipped Galvanized Mount
- Switch for C Band Linear and Circular Polarization Feed
- Cassegrain Antenna, C/Ku Band

### Optional:

- Control system, Beacon receiver
- Motorized polarization
- Non-Penetrating-Mount
- Lightning rod kit,
- De-icing
- Antenna customization



## ELECTRICAL SPECIFICATION

	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
Operation Frequency, GHz	3.4~4.2	5.85~6.725	10.7~12.75	13.75~14.5
Gain, Mid-band, dBi	49.9	53.3	59.4	60.5
Polarization	Linear/Circular		Linear	
XPD (on Axis), dB	35	35	35	35
XPD (across 1dB Beam width),dB	33	33	33	33
Axial Ratio(Circular-Polarized),2-port Feed	1.30	1.09		
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature				
10°Elevation	35°K		61°K	
30°Elevation	26°K		50°K	
50°Elevation	24°K		43°K	
-3dB Beam width, Mid-band	0.57°	0.37°	0.2°	0.16°
Typical G/T(EL>10°)	30dB/*K (60°LNA)		36.3dB/*K (140°LNA)	
TX. Power Capability, KW		5		2
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss	0.2	0.2	0.25	0.2
Isolation, TX to Rx, dB	90		85	
First Side lobe	-14		-14	
90% Peaks under Following Envelop	29-25logθ(1°≤θ<20°)		29-25logθ(1°≤θ<20°)	

## MECHANICAL SPECIFICATION

<b>Antenna Diameter</b>	<b>9.0m</b>
Antenna Type	Cassegrain
Mount Type	EL. over AZ.
Surface Accuracy (RMS)	≤ 0.5mm
Antenna Pointing Range and speed	
Azimuth	Standard type: $\pm 70^\circ, \pm 60^\circ$ (Continuous), 0.06°/s Custom type: 0°~ 360° (Continuous), 0.06°/s
Elevation	0°~ 90° (Continuous), 0.06°/s
Polarization	360° (Continuous), 0.1°/s
Drive Mode	Motorized

## ENVIRONMENTAL SPECIFICATION

Operational Wind	72 km/h Gusting to 97 km/h
Survival Wind	216 km/h
Temperature	-40℃ ~+60℃
Relative Humidity	100%
Seismic (Survival)	0.3g(H), 0.15g(V)
Ice Loading	13mm Operational; 25mm Survival