



1.2m Ka Band Antenna

## Feature

- \* High G/T, excellent pattern characteristics
- \* Factory feed system testing
- \* All of steel parts to be processed by hot dipped zinc
- \* Foundation hardware kit included
- \* Air or ocean transport packing

## Options

- \* Specialized feed systems (e.g extended ,multi-band, Ka Band,DBS band )
- \* Antenna control system with tracking (Steptrack, Program Tracking and Inclined Orbit Tracking)
- \* Reflector and feed deicing systems
- \* ODU Support Kits, Lightning Rod Kit, Grounding Kit and Cable-Mounting Kit
- \* Turnkey installation and testing
- \* Non-penetrating mount
- \* High wind configuration



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## ELECTRICAL SPECIFICATION

Type	FS120-KA	
	Receive	Transmit
Operating Frequency, GHz	Standard Band 18.3~21.2	Standard Band 29~30
	Custom band 17.70~21.20	Custom band 27.5~31
Gain, Mid-band, dBi	46.2	49.5
Polarization	Linear/Circular	
XPD (on Axis), dB	35	35
Axial Ratio (Circular-Polarized)		1.2
VSWR	1.3	1.3
Antenna Noise Temperature		
5° Elevation	181°K	
10° Elevation	140°K	
20° Elevation	109°K	
40° Elevation	90°K	
-3dB Beam Width, Mid-band	0.69°	0.5°
-10dB Beam Width, Mid-band	1.39°	0.81°
Tx. Power Capability		100W
Feed Interface	WR42	WR28
Feed Insertion Loss	0.6	0.4
Isolation, Tx to Rx, dB	85	
First Sidelobe	-14	
90% Peaks under Following Envelop	29-25log $\theta$ (1° $\leq\theta$ < 20°)	

## MECHANICAL SPECIFICATION

Antenna Diameter	1.2m
Antenna Type	Ring focus
Mount Type	El. over Az.
Surface Accuracy (RMS)	$\leq$ 0.2mm
Antenna Pointing Range	
Azimuth	0° ~ 360°, $\pm$ 10°(Continuous)
Elevation	0° ~ 90°(Continuous)
Polarization	360°(Continuous)
Drive Mode	Manual or Motorized
Materials of reflector	Aluminum alloy
Finish of steel parts	Hot dipped zinc

## ENVIRONMENTAL SPECIFICATION

Operational Wind	72km/h Gusting to 97km/h
Survival Wind	216km/h
Temperature	-40°C ~ + 60°C
Relative Humidity	100%
Solar Radiation	1135Kcal/ h/ m2
Seismic (Survival)	0.3g (H), 0.15g (V)
Ice Loading	13mm Operational; 25mm Survival