

China Starwin 1.8m Ka Band Antenna Datasheet



General Description of 1.8m Ka Band Antenna

China Starwin 1.8m Ka band ring focus antenna is designed for Ka band transmit and receive operation.

- The precision high quality aluminum reflector constructed with stretch formed double coated 4 panels, strong back structures and hub, no field alignment.
- The standard designed azimuth over elevation king post pedestal provides a cost-effective solution for ground or roof installation with high stiffness and stability, wide Az&El moving range and fine drive performance, ensure the pointing and tracking accuracy.
- Equipped with special designed wide Ka band feed assemblies.
- Also supply limit switches, foundation hardware kit and required packing.

Key Features

- * Meets or exceeds CCIR 580 and INTELSAT Requirements
- * Precision compression molded ring focus antenna
- * CP/LP feed available
- * Hot dip zinc steel pedestal, hub & back struts
- * Galvanized stainless steel fasteners
- * Strong structure and high wind resistance

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Options

- * Motorization kits
- * Controller and tracking receiver
- * 2 ports/ 4 ports linear/ circular polarized feeds
- * Feed blower or deicing with automatic controls
- * Lightning Rod Kits
- * Non-penetrating mount (NPM)
- * Integrated LNB or LNA systems
- * HPAs, converters and M&C systems
- * Turnkey installation & testing

Electrical Specification

Type	KA-180A	
Operating Frequency, GHz	KA-Band	
	Receive	Transmit
	17.7~21.2	27.1~31
Gain, Mid-band, dBi	50.7	54.1
Polarization	LHCP/RHCP	
XPD (on Axis), dB	35	35
XPD across 1dB Beam Width, dB	30	30
VSWR	1.25:1	1.25:1
Antenna Noise Temperature 2-port feed		
10° Elevation	65K	
30° Elevation	55K	
50° Elevation	50K	
-3 dB Beam Width, Mid-band	0.54°	0.36°
Typical G/T	≥32dB/K at 20°elevation	
Tx. Power Capability, KW		5
Feed Interface	WR-42	WR-34
Feed Insertion Loss, dB	≤0.4	≤0.3
Isolation, Tx to Rx, dB	85	
First Sidelobe	-14	
90% Peaks under Following Envelop	29-25lgθ (1°≤θ≤20°)	

Mechanical Specification

Antenna Diameter	1.8m	
Antenna Type	Ring Focus	
Antenna Material	High Quality Aluminium	
Surface Accuracy (RMS)	≤0.3 mm	
Antenna Pointing	Azimuth	0° ~ 360°

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Range	Elevation Polarization	0° ~ 90° (Continuous) ±90°(Continuous)
Drive Mode		Manual or Motorized
Motor Drive System	Azimuth Travel Rate	0.11° /s (0.06° /s)
	Elevation Travel Rate	0.17° /s (0.08° /s)

Environmental Specification

Operational Wind	79km/h gusting to 97km/h
Survival Wind	200km/h
Temperature	- 20°C ~ + 48°C
Relative Humidity	100%