

Starwin 6.2M Earth Station Antenna Datasheet



Performance Strength

- * C, Ku, multi band available, meeting FCC and ITU-RS-580 requirements
- * High quality aluminum reflector panels and galvanized steel backup structure
- * Self-aligning aluminum antenna reflector-no field alignment
- * Galvanized steel elevation over azimuth pedestal
- * Fixed foundation and Non penetrating foundation optional for wider choice
- * Survives 125 mph winds in any position and High wind configuration optional

Description

Starwin 6.2m antenna delivers exceptional high performance for transmit/receive application in C, Ku, ka, X band in Tx/Rx 2 ports, 4 ports or Rx 1 port with high gain, low noise and low microwave interference.

Starwin 6.2m antenna offers a fine reflector design with a stretch formed double contoured panels, strong back struts and hub for easy of field alignment. The standard designed azimuth over elevation pedestal provides a cost-effective solution for ground or roof installation with high stiffness and stability, full orbital arc coverage and fine drive performance, and ensures the pointing and tracking accuracy.

The electrical performance is compliant with FCC and ITU-RS-580 sidelobe specifications and Intelsat, Eutelsat, INMARSAT, ASIASEAT, APT and CHINASEAT, etc requirement.

China Starwin Science&Technology Co., Ltd.

Tel: +8629-88664381, E-mail: sales@starwincom.com, <http://www.starwincom.com>

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Key Features

- * Meets or exceeds CCIR 580 and INTELSAT Requirements
- * High G/T, excellent pattern characteristic
- * Precision compression molded offset antenna
- * CP/LP switchable feed
- * Hot dip zinc steel pedestal, hub & back struts
- * Galvanized stainless steel fasteners
- * Foundation hardware kit provided
- * Package suitable for air, ocean land transportation

Antenna Accessory

- * Limit Switches
- * Foundation hardware Kit
- * Grounding Kits Cable - Mounting kits
- * Cable mounting kits
- * ODU Support Kits
- * Factory Feed System Testing and Documentation
- * Ocean /Air/land Transport Packing

Options

- * L, S, C, X, Ku and DBS-band feed configurations
- * 800MHz bandwidth is available
- * Two or Four ports - Tx/Rx port in linear or circular polarized feeds
- * Motorization kits
- * Feed blower or deicing with automatic controls
- * Lightning Rod Kits
- * Non-penetrating mount
- * Antenna control & tracking system for step track, program track, inclined orbit track
- * Integrated LNB or LNA systems
- * HPAs, converters and M&C systems
- * Integrated LNB or LNA systems
- * HPAs, converters and M&C systems
- * Turnkey installation & testing

Electrical, Mechanical, Environmental Specification

Electrical Specification			
Type		SW62Ka	
Operating Frequency, GHz		Ka band	
		Receive	Transmit
		19.5~21.2	29.5~31.5
Gain, Mid-band, dBi		59.2	61.8
Polarization		Circular	
Axis Ratio-2 port, dB		1.5	1.5
Axis Ratio-4 port, dB		1.0	1.0
VSWR		1.35:1	1.35:1
Antenna Noise Temperature 2-port feed 10° Elevation 30° Elevation 50° Elevation		125K 87K 61K	
Typical G/T (EL=30°, 2-port)		37.2+20Log (F/20.2) dBi/K (Including 1:2 Redundant 120K LNA Plate and Feed to LNA Waveguide)	
-3 dB Beam Width, Mid-band		0.16°	0.12°
Tx. Power Capability, KW			100
Feed Interface		WR42	WR28
Feed Insertion Loss, dB		0.2	0.2
Isolation, Tx to Rx, dB		90	
Side Lobe		CCIR580-4	
Mechanical Specification			
Antenna Diameter		6.2m	
Antenna Type		Double Modified Cassegrain	
Main Reflector		16 Pieces of Aluminum Plate	
Surface Accuracy (RMS)		≤0.5mm	
Antenna Pointing Range	Azimuth Elevation Polarization	±85°, 0°-360° continuous optional 0°~90°(Continuous) ±90°(Continuous)	
Drive Mode		Manual or Motorized	
Motor Drive System	Azimuth Travel Rate	0.11°/S(0.03°/S)	
	Elevation Travel Rate	0.17°/S(0.04°/S)	
	Polarization Travel Rate	1°/S	
Antenna Reflector Material		Aluminum Alloy	

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Finish of steel parts	Hot dipped Zinc
Environmental Specification	
Operational Wind	72km/h gusting to 97km/h
Survival Wind	216km/h
Temperature	-30°C~+55°C
Relative Humidity	100%
Solar Radiation	1135Kcal/h/m ²
Seismic (Survival)	0.3g(H), 0.15g(V)
Ice Loading	13mm Operational; 25mm Survival
Atmospheric Condition	Prevent Corrosive Pollutants Such as Salt, etc. in Coastal and Industrial Areas