

China Starwin 3M COMPACT ANTENNA DATASHEET



Performance Strength

- High quality aluminum reflector panels and galvanized steel backup structure
- C, Ku, Ka, X band Available , meeting FCC and ITU-RS-580 requirements
- Galvanized steel elevation over azimuth pedestal
- Fixed foundation and Non penetrating foundation optional for wider choice
- Survives 125 mph winds in any position

Description

- China Starwin 3m antenna delivers exceptional high performance for transmit/receive application in C, Ku, ka, X ,S band in Tx/Rx 2 port or Rx 1 port with high gain ,low noise and low microwave interference.
- China Starwin 3m antenna offers a fine reflector design with a stretch formed double contoured panels, strong back struts and hub fore ease 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, ASIASAT,APT and CHINASAT, etc requirement.

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
- Two -Tx/Rx port in linear or circular polarized feeds
- motorization kits
- Feed blower or deicing with automatic controls
- Lightning Rod Kits
- Non-penetrating mount
- Integrated LNB or LNA systems
- HPAs, converters and M&C systems
- Turnkey installation & testing

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Electrical, Mechanical, Environmental Specification

Electrical Specification

Type	S-Band	Ku-Band
Rx Frequency,GHz	2.025~2.3	10.95~12.75
Gain dB	≥25	≥47.3
Antenna Noise Temperature K°	≤1.2dB/k	EI=20°, ≤ 45
VSWR	≤1.5	≤1.25
XPD dB	≥30	≥30
Isolation dB	30	35
First Side Lobe level	≤-14	≤-14
Wide Angle Side Lobe Envelop db	90% Peaks under Following Envelop: 52-10lgθ (D/∧) -25lgθ	90% Peaks under Following Envelop: 52-10lgθ (D/∧) -25lgθ
Feed Interface	N-50K	WR-75
Axial Ratio	1.1:1	1.25:1

Mechanical Specification

Antenna Diameter	3m
Antenna Type	Ring Focus
Surface Accuracy (RMS)	≤0.35mm
Antenna Pointing Range	Azimuth 360° Elevation 0°~90° Polarization ±360°
Drive Mode	Manual or Motorized
Motor Drive System	Azimuth Travel Rate 0.30°/S(0.06°/S) Elevation Travel Rate 0.20°/S(0.04°/S)
Antenna reflector Material	Aluminum Alloy
Finish of steel parts	Hot dipped Zinc

Environmental Specification

Operational Wind	> 45mph
Survival Temperature	-20℃-+70℃
Operation Temperature	-20℃-+50℃
Relative Humidity	100%
Solar Radiation	1135Kcal/h/m ²
Seismic(Survival)	0.3g(H), 0.15g(V)
Ice Loading	13mm Operational; 25mm Survival