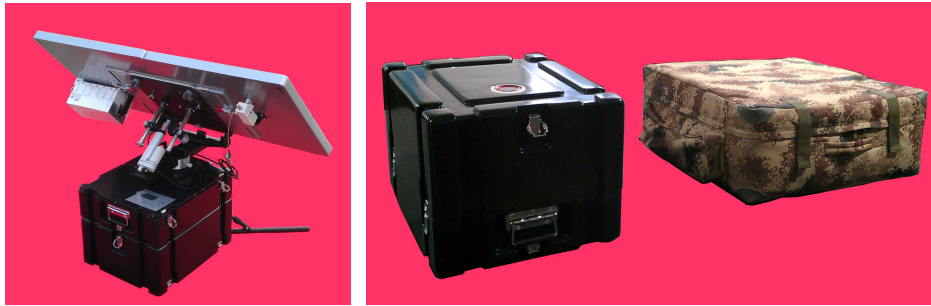


AUTO TRACKING 39 dB Ku BAND FLAT ANTENNA DATASHEET

Portable 39dB Ku Band Flat Antenna Appearance



General description

China Starwin next generation portable auto-tracking 39dB Ku band antenna delivers exceptional high performance for transmit/receive application with high gain, low noise and low any interference.

Antenna is integrated by a light and thin, high gain flat array antenna plate, a simple suitcase servo subsystem and an auto tracking control unit. This state of art antenna is light-weight, small size, easy to carry, high reliability and will lead satellite communication terminal in new form from traditional parabolic antenna. This product will diverse Ku band broadband communication scenario, improve user experience and reduce the cost of portable satellite terminal.

The electrical performance is compliant with FCC and ITU sidelobe specifications and Intelsat, Eutelsat, SES, AsiaSat, ChinaSat, etc requirement.

Features:

- State of art and proven flat array antenna technology, equivalent to 0.85m parabolic Ku band antenna
- Multi-functional tracking mechanism Fully auto and high accuracy targeting satellite
- Framework and enclosure is made by carbon fiber and support structure is made by aluminum and magnesium alloy
- Different BUCs and LNBS can be mounted on the antenna plate
- Easy to store, transport, carry and operate

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- Meet the diversified satellite broadband access demand of the military, government, enterprise and consumer

Technical Specification

Type of the antenna panel	Flat array antenna
Frequency range	Receiving 11.5~12.75GHz Transmitting 14.0~14.75GHz
Polarization	Liner polarization
VSWR	≤1:1.5
Receiving Gain	38.5 dBi
Transmitting Gain	39 dBi
First sidelobe	≤-15dB
Cross polarization isolation	≥35dB
Tx/Rx polarization isolation	≥85dB
Satellite searching mode	DVB-S2/satellite signal tracking (beacon tracking optional)
Satellite tracking mode	Satellite parameter presetting GPS/inclinometer guiding
Tracking time	<120 S
BUC mounted on panel	1\2\3\4\8\16W
Antenna Power resistance	≥100W
Power supply	AC 90-240V (DC optional)
Antenna plate size/weight	570×570×34mm/ 5Kg x 2
Suitcase size/weight	450×400×400mm/17Kg
Total Antenna weight	27 Kg
Wind (operational)	19m/s
Wind(survial)	25m/s
Water resistance	IP-65
Temperature	-40°C to +60°C