

HIGH GAIN PORTABLE 36 dB Ku BAND FLAT ANTENNA DATASHEET

Portable Ku Band Flat Antenna Appearance



General description

China Starwin next generation portable Ku band antenna delivers exceptional high performance for transmitting/receiving application with high gain, low noise and low interference.

Antenna is integrated by a light and thin, high gain flat array antenna panel, servo subsystem and an auto tracking control unit. This state of art antenna is light-weight, small size, easy to carry and 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 0.65m Ku band parabolic antenna**
- Multi-functional tracking mechanism Fully auto and high accuracy targeting satellite
- ABS(Acrylonitrile-Butadiene-Styrene) antenna panel , carbon fiber framework and enclosure, aluminum and magnesium alloy support structure
- Different BUCs and LNBS can be mounted on the back of antenna panel
- 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	Tx 13.75~14.5GHz Rx 10.95~12.75GHz
Polarization	Linear polarization
VSWR	≤1.5:1
Receiving Gain	35.5dBi
Transmitting Gain	36.5dBi
First sidelobe	≤-15dB
Cross polarization isolation	≥35dB
Tx/Rx polarization isolation	≥85dB
Satellite searching mode	Satellite parameter presetting, GPS/inclinometer guiding
Satellite tracking mode	DVB-S2/satellite signal tracking (beacon tracking optional)
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 panel size/weight	570×570×34mm/ 5 Kg
Total Antenna net weight (including antenna panel, servo system)	19Kg
Wind (operational)	19m/s
Wind(survival)	25m/s
Water resistance	IP-65
Temperature	-40°C to +60°C