

Ku BAND FIXED FLAT TERMINAL DATASHEET

uSat Integrated Ku Band Fixed Flat Terminal Appearance



General description

uSat INTEGRATED Ku BAND FIXED TERMINAL DATASHEET

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China Starwin revolutionary uSat integrated Ku band flat terminal delivers exceptional high performance for transmitting/receiving application with high gain, low noise and low interference.

This flat terminal is integrated by a light and thin, high gain Ku Band flat array antenna panel, the Ku band BUC and LNB ,and satellite broadband router(Modem module) from such as Hughes, ViaSat, iDirect or any others which are used by customer . All of the BUC, LNB, Router and power supply unit are mounted with antenna panel and sealed by a special metal shield. This state of art terminal is light-weight, small size, easy to install and high reliability and will lead satellite communication terminal in new form from traditional VSAT terminal consisting of parabolic antenna, separated ODU and IDU units. This revolutionary VSAT product will diverse Ku band satellite application scenario, improve user experience and reduce the cost of satellite terminal deployment.

The electrical performance of the flat array antenna 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**
- State of the art pointing mechanism keep terminal targeting satellite in high accuracy more easily
- ABS(Acrylonitrile-Butadiene-Styrene) antenna panel , carbon fiber framework and enclosure, aluminum and magnesium alloy support structure
- Different BUCs and LNBS ,Satellite Routers can be mounted on the back of antenna panel
- Easy to store, transport, install ,operate and maintenance
- Meet the diversified satellite broadband telecommunications demand of the military, government, Enterprise and consumer

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Technical Specification

Items	uSat Ku band Fixed flat terminal
Type of the antenna panel	Flat array antenna (equivalent to 0.65m parabolic antenna)
Frequency range	Tx 13.75~14.5GHz Rx 10.95~12.75.GHz
Polarization	Linear polarization
VSWR	≤1.5:1
Receiving Gain	35.5 dBi
Transmitting Gain	36 dBi
First sidelobe	≤-15dB
Cross polarization isolation	≥35dB
Tx/Rx polarization isolation	≥85dB
Azimuth range	Unlimited
Elevation range	15~85°
Polarization range	±90°
Satellite searching mode	Satellite parameter presetting, GPS/inclinometer guiding
Satellite Modem	iDirect X1/X3/X7 Comtech 570 Hughes HX200
BUC	3W NJRC BUC 4W Nexgenwave BUC 6W Amplus BUC Module 8W Amplus BUC Module 16W Amplus BUC Module
LNB	PLL LNB 30K (For TDMA Hughes, iDirect, Gilat, EMC) PLL LNB 5K (Carrier to carrier modem such as 570)
Antenna Power resistance	≥100W
Power supply	AC 100-260V 50-60Hz (DC optional)
Antenna panel size/weight	570×570×34mm/5 Kg
Total terminal weight	Around 9Kg
Wind (operational)	24m/s

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Wind(survival)	32m/s
Ingress Protection	IP-66
Temperature	-25°C to +65°C