

Ku-band 1T1R GEO&LEO SATCOM Phased-array Terminal

COXSAT

The Ku-band 2T2R SATCOM Terminal is a high-performance version of the GEO&LEO compatible terminal. It supports GEO satellites like Asia-Pacific 6D/6E and LEO satellites like Qianfan constellation. It has built-in GEO&LEO dual modems and shares 2T2R two-dimensional full-electric scanning active phased array antenna. It is highly integrated with phased array antenna, up-down conversion, inertial navigation unit, antenna control unit, modem and other components, meeting the user's GEO&LEO satellite network connection needs in the case of mobile communication.

Product Images



Product Features

GEO & LEO Compatibility

Built-in dual modems, compatible with both GEO & LEO satellites.

High Platform Adaptability

Suitable for use on various platform such as vehicles, ships, and aircraft

Multi-Satellite Compatibility

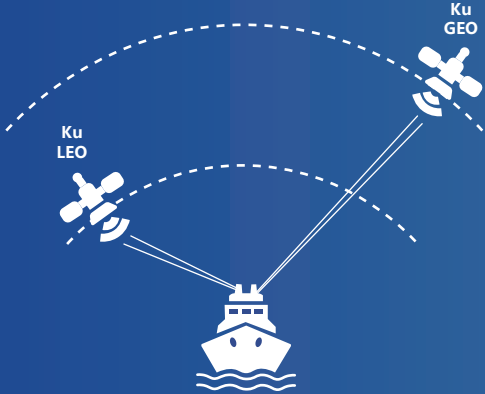
Supports external modem switching, compatible with most Ku-band satellites

High Reliability

Phased array 2D electronic scanning, no mechanical rotation, with low profile and strong reliability

Easy Installation, Plug-and-Play

Application Scenarios



- Built-in dual-band Wi-Fi capability
- Stable network with low latency
- Maximum wind resistance: 120 km/h
- Resistant to shock, vibration, low pressure, solar radiation, and salt spray



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Product Specifications

Antenna Type	Two-dimensional full-electric scanning active phased array antenna
Working Frequency	Rx: 10.7~12.75GHz; Tx: 13.75~14.5GHz
Duplex Mode	FDD (Full Duplex)
Array Configuration	2 pcs, with 1Tx and 1 Rx 768-element arrays
Polarization	Arbitrary linear polarization/arbitrary circular polarization, switch
Scanning Range	Azimuth: 0° ~ 360°; Elevation: 0° ~ 65°
EIRP	≥42dBW @0° linear polarization; ≥36.5dBW @65° linear polarization ≥40dBW @0° circular polarization; ≥34.5dBW @65° circular polarization
G/T	≥9dB/K@11.7GHz,Broadside; ≥2.5dB/K@11.7GHz@65°
XPD	≥30 dB@90°
Max Tracking Error	≤0.5dB
IF	GEO: Rx: 950~2150MHz; Tx: 950~2400MHz LEO: Rx: 2.0GHz; Tx: 4.0GHz
WiFi	Support dual-band WiFi function, with accesses: ≥8
Interface	LAN port: 2; Power: 1; RF Testing port: 1
Dimensions	≤700mmx500mmx50mm
Weight	≤15kg
Operating Voltage	48V DC, standard 220V AC to 48V power adapter
Power Consumption	≤450W
Working Temperature	-40°C~55°C
Storage Temperature	-40°C~80°C
Humidity	10%~95%(35°C)
Protection	IP65
Wind Resistance	120km/h
Reliability	Shock-resistant, Vibration-resistant, Low-pressure resistant, Solar radiation resistant, Salt-fog resistant
Certification	CCC



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