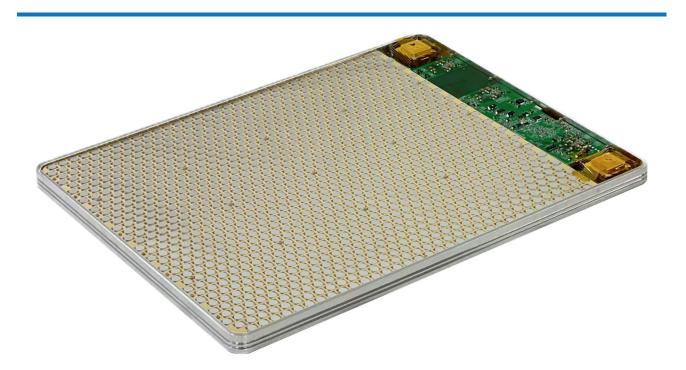
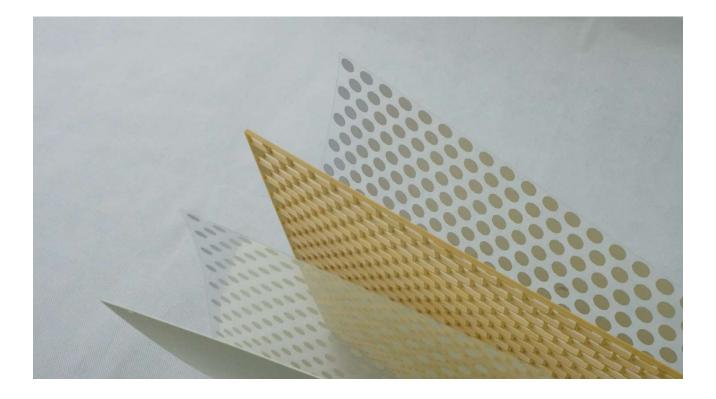
Ku-band LEO TDD Satellite Communication Phased Array Terminal

Product Photos:





Technical Parameters:

Items	Parameters
Working Frequency	Receive: 10.7-12.7GHz
	Emission: 14.0-14.5GHz
Working Mode	TDD
Beams	1T1R
Polarization	Rx: RHCP, Tx: LHCP
Tx EVM	≤1.35% @ 16QAM
Power Control	Equal PFD modulation, Equal EIRP, Phased array characteristics, Manual pairing
Scanning Range	Azimuth: 0°-360°, Pitch angle: 25°-90°
IBW	Downstream: 240MHz, Uplink: 100MHz
OBW	Downstream: 240MHz
OBW	Uplink: 6.25MHz, 12.5MHz, 25MHz, 50MHz, 100MHz
Madulation	Downlink: π /2BPSK, QPSK, SPSK, 16APSK, 32APSK
Modulation	Uplink: QPSK, 8PSK, 16QAM
Beam Tracking Mode	Support tracking altitude of 500~1200km, including: 1. Program-controlled tracking based on almanac/ephemeris 2. Active closed-loop tracking based on received signals
Max Tracking Error	≤±0.5dB
Mobility	Horizontal speed ≥120 km/h, Vertical speed ≥36 km/h
Initial Alignment Time	Dynamic: ≤90s, Static: ≤80s
G/T -	Normal direction: ≥7.5 dB/K @ 11.7GHz
	Off-axis angle 65°: ≥2.5 dB/K @ 10.7~12.7GHz
	Normal direction: ≥41dBW @ 14.0~14.5GHz
EIRP	Off-axis angle 65°: ≥35.5dBW @ 14.0~14.5GHz
Power Supply	24V DC - 48V DC
Power Consumption	\leq 180W (When snow melting function off)
Dimensions	500mm * 400mm * 50mm
Weight	≤6kg
Working Temperature	-40℃~+55℃ (Solar radiation, no wind)
Storage Temperature	-40°C~+80°C
Heat Dissipation	Natural

Protection Level	IP67
Random Vibration	Vibration resistant during transportation and usage
Relative Humidity	100% non-condensing
Anti-salt Spray	Support
Solar Radiation	≤1kW/m²
Wind Resistance	90km/h
Melting Snow	40mm/h
Anti-ponding	Support
MTBF	≥30,000h