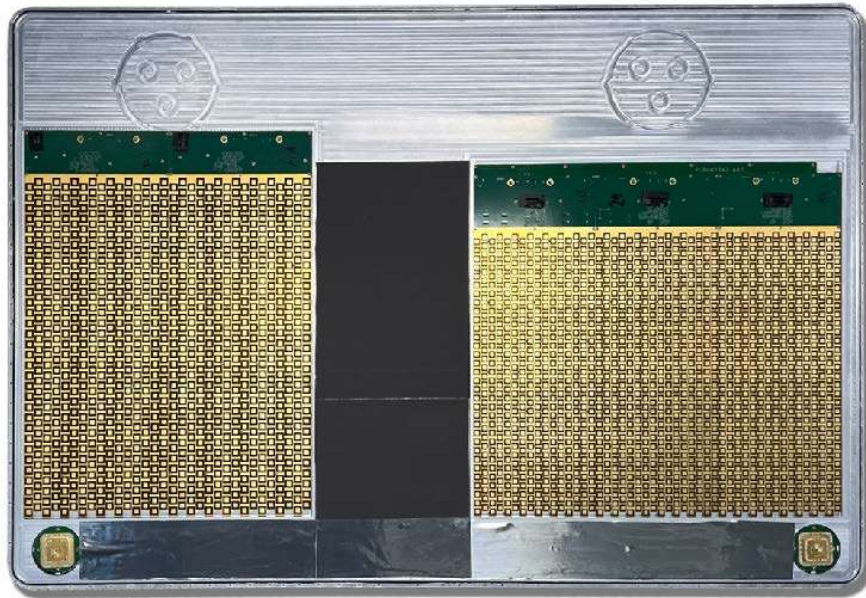


Ku-band Satellite Communication Phased Array Terminal

Product Photos:



Applications:

Ku-band phased array antenna is a terminal product based on the vehicle platform, which achieves real time communication of satellites through beam width scanning and switching.

Product Features:

- AOB architecture, highly integrated design of array and TR, low profile and light weight;
- 2D beam electrical scanning, US level beam switching;
- Equipped with two working modes: FDD/TDD;
- Integrated up and down frequency conversion function;
- Integrated inertial navigation, autonomously correct orientation upon startup, determine due north direction;
- Capable of program tracking and autonomous tracking.

Technical Parameters:

Items	Parameters		Remarks
Working Frequency	Tx	14~14.5GHz;	
	Rx	10.7~12.7GHz;	
Working Mode	FDD/TDD		
EIRP	$\geq 48\text{dBm}$ @14.25GHz		Normal Direction
G/T	$\geq 9\text{dB/K}$ @11.7GHz @40K		Normal Direction
Polarization	LHCP/RHCP, switchable		
Tracking Accuracy	$\leq 0.5\text{dB}$		
Scanning Range	Azimuth	$0^\circ \sim 360^\circ$	
	Off-axis angle	$\geq \pm 70^\circ$	
Axial Ratio	$\leq 4\text{dB}$		@Off-axis Angle 60°
Sidelobe Suppression	$\leq 12\text{dB}$		Normal Direction
Power Consumption	$\leq 350\text{W}$		Transmitting
Power Supply	Adaptor	AC 90~264V/50~60Hz	
	Direct	DC 18-36V	
Dimensions	1100mm × 750mm × 50mm		

Items	Parameters		Remarks
Weight	≤33kgs		
Interfaces	Power Interface	Circular Connector	J30J-15
	Control Interface	Rectangular Connector	
	RF Interface	2.92-K	
	IF Interface	SMA-K	