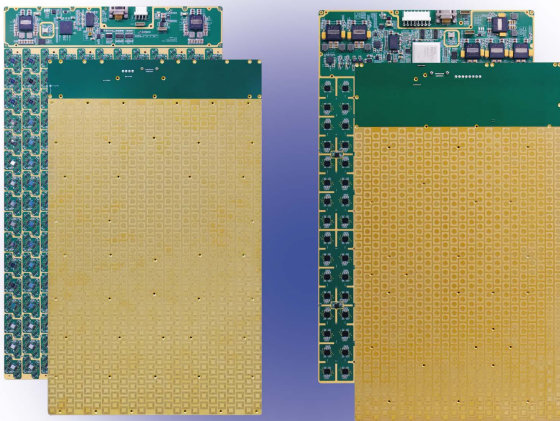


# Ku-band Phased Array Antenna Subarray

# COXSAT

This Ku-band phased array subarray integrates 768 receiving elements and adopts 2D electronic scanning to realize automatic satellite alignment and fast tracking. With a slim and compact design, it supports flexible splicing and expansion to adapt to various application scenarios. Equipped with fully China-made components and powered by 12V, it works stably and reliably in harsh wide-temperature environments ranging from -40°C to 70°C.

## Product Images



Rx

Tx

## Product Feature

### High Integration

Adopts AoB architecture, integrating phased array antenna and beam control.

### High Platform Adaptability

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

### polarization switchable

Supports LHCP/RHCP switchable polarization

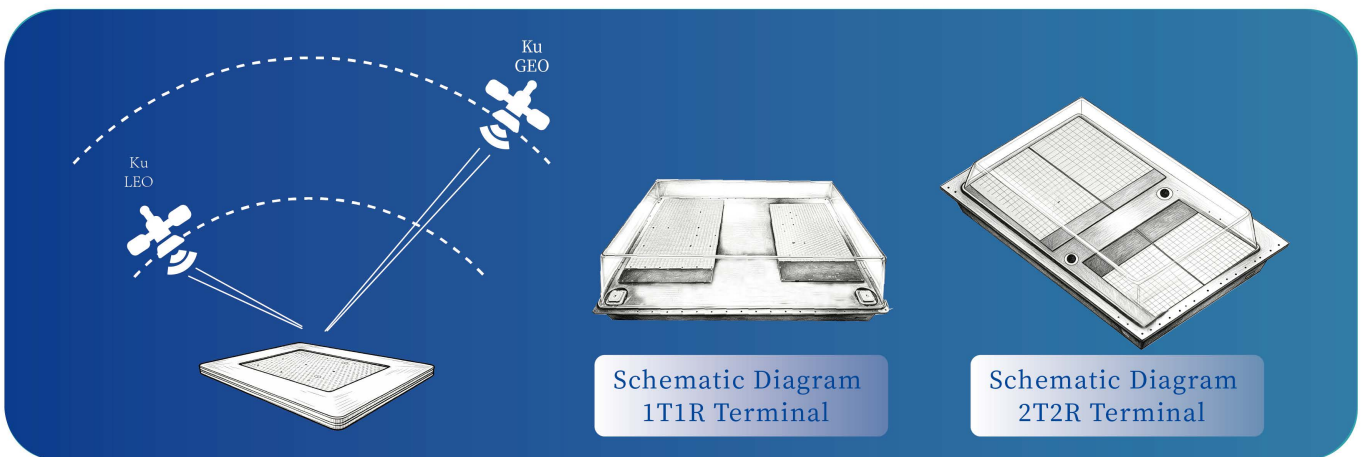
### High reliability

2D electronic scanning of phased array, no mechanical rotation, low profile and high reliability.

### GEO & LEO Compatibility

Supports TDD or FDD operating modes

## Application Scenarios



致力于成为低成本相控阵领域头部品牌

## Product Specifications

	Rx	Tx
Working Frequency	10.7GHz~12.7GHz	13.7GHz~14.5GHz
Scanning Range	Azimuth:0~360°;Off-axis angle:±70°	
G/T(Normal)	≥9.0dB/K@11.7GHz	/
@40K Background Noise	LP,CP	/
EIRP(P-1dBm Normal)	/	≥42.0dBW@14.1GHz, LP ≥39.0dBW@14.1GHz, CP
Subarray Gain	≥60.0dB@11.7GHz(Normal)	
Scanning Loss	Off-axis angle 30°:≤2.5dB; Off-axis angle 45°:≤3.5dB; Off-axis angle 60°:≤5.5dB; Off-axis angle 70°:≤7.5dB;	
Beam Width(Normal)	Horizontal:3.3±0.5°@11.7GHz Vertical:4.9±0.5°@11.7GHz	Horizontal:3.2°±0.5°@14.1GHz Vertical:4.5°±0.5°@14.1GHz
Pointing Accuracy	≤ 1/8 HPBW	
Sidelobe Suppression	≥12dB@Normal	
Polarization	ACP/ALP	
Cross Polarization Isolation	≥25dB@Linear Polarization Normal Direction	
Polarization Switching Time	≤0.5ms	
Beam Switching Time	≤0.3ms	
Input Voltage	DC12V±1V	
Power Consumption (P1dB)	≤90.0W	≤200.0W
Input P-1dBm	4±2dBm@14.1GHz	/



### CONTACT

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Email: sales@coxsat.com

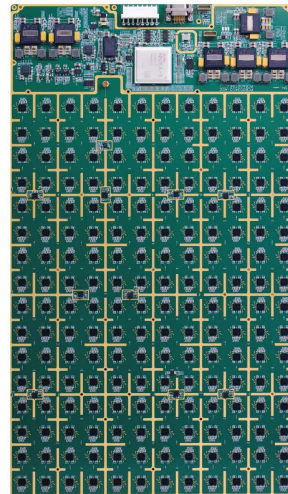
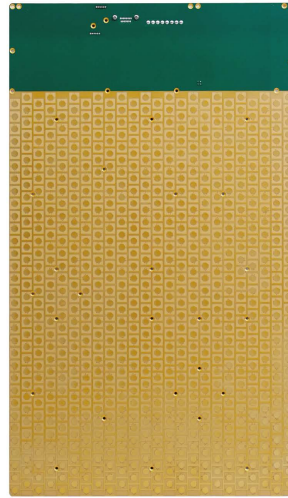
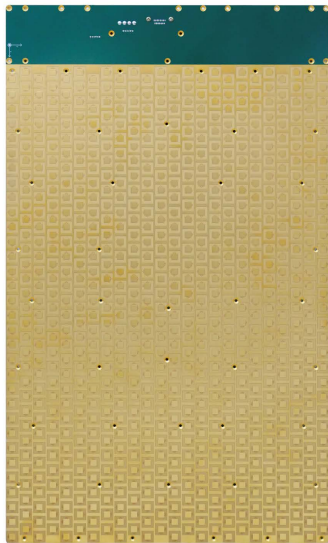
Tel: 028-83182581

Website: www.coxsat.com

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# Product Photo

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Ku-band Phased Array Antenna  
768-element Rx Subarray

Ku-band Phased Array Antenna  
768-element Tx Subarray



## CONTACT

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