

JSAT450-0.45m ka band Airborne VSAT Antenna



Antenna JSAT450

La antena JSAT450 utiliza dos modos de seguimiento estabilizados axiales, integrados en el sistema de fusión de medición de altitud GNSS / INS, por lo tanto, para asegurarse de que la antena siempre apunta al satélite en el movimiento.

Features:

Stabilization		2 axis stable tracking
Dimension(Diameter x Height)		ø450 x 400mm
Weight		11kg
Frequency Range	Rx	12.25-12.75GHz
	Tx	14.00-14.50GHz
Type		Panel waveguide horn array
Gain	Rx	29.5dB@12.50GHz
	Tx	30.5dB@14.25GHz
Polarization		Linear
Tracking Accuracy		0.2° RMS
Carrier Motion Range	Roll	-30° -30° , period 8s
	Pitch	-30° -30° , period 8s
	Yaw	40° /s
Azimuth		360° continuous rotation
Elevation		0° -90°
Initial Acquisition time		≤120s
Re-acquisition Time		block time ≤ 10 minutes, acquisition immediately; 10 minutes < block time ≤ 30 minutes, acquisition ≤ 5s; block time > 30 minutes, acquisition ≤ 10s
Tracking Mode		INS measurement and signal tracking
Input Power		DC18-32V standard power consumption 55W (BUC excluded)
Operating Temperature		-55°C-70°C

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Con la antena JSAT450 aplique comunicación Tx / Rx, con un equipo de peso ligero y volumen pequeño.

Aplicaciones: Helicóptero, avión civil y otros aviones.

SATCOM IN THE MOVE

@Land @Maritime @Airborne

Antenna JSAT450

Especificaciones :

Electronic specification

Antenna Type	Panel waveguide horn array
Operation Frequency	Rx: 18.70~20,2GHz; Tx: 29.0~30.0GHz
Antenna Gain	Tx: $\geq 38.5\text{dBi}@29.5\text{GHz}$ Rx: $\geq 35.0\text{dBi}@19.7\text{GHz}$
Polarization Mode	Circular
Port Isolation	$\geq 85\text{dB}$ (filter is included)

Mechanical specification

Size	930*279mm
Weight	48kg
Turntable rotate range	Azimuth: 360°continuous rotation Elevation: 0°~90°
Motion carrier attitude	Roll: $\pm 30^\circ$, 8s period Pitch: $\pm 30^\circ$, 8s period Yaw: 40°/s
Polarization mode	Auto tracking

Antenna tracking specification

Stabilization	2-axis stable tracking
Tracking Mode	INS measurement and signal tracking(beacon and carrier)
Tracking Accuracy	$\leq 0.2^\circ\text{RMS}$
Initial operating time	10s
Re-acquisition time	1s

Other requirements

Power supply	AC115V 400Hz
Interface requirements	Power interface、network interface(RJ45)、debugging interface (RS 422)
Standard consumption	60W (without BUC)
Operation temperature	-55°C~70°C
Relative humidity	5%~95%
Wind load	Better than 55m/s
Three proofing	Moisture proofing, salt spay proofing and fungus proofing