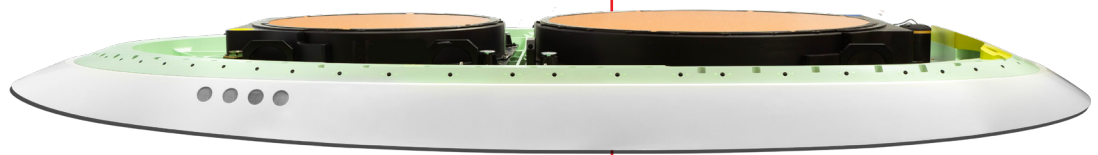
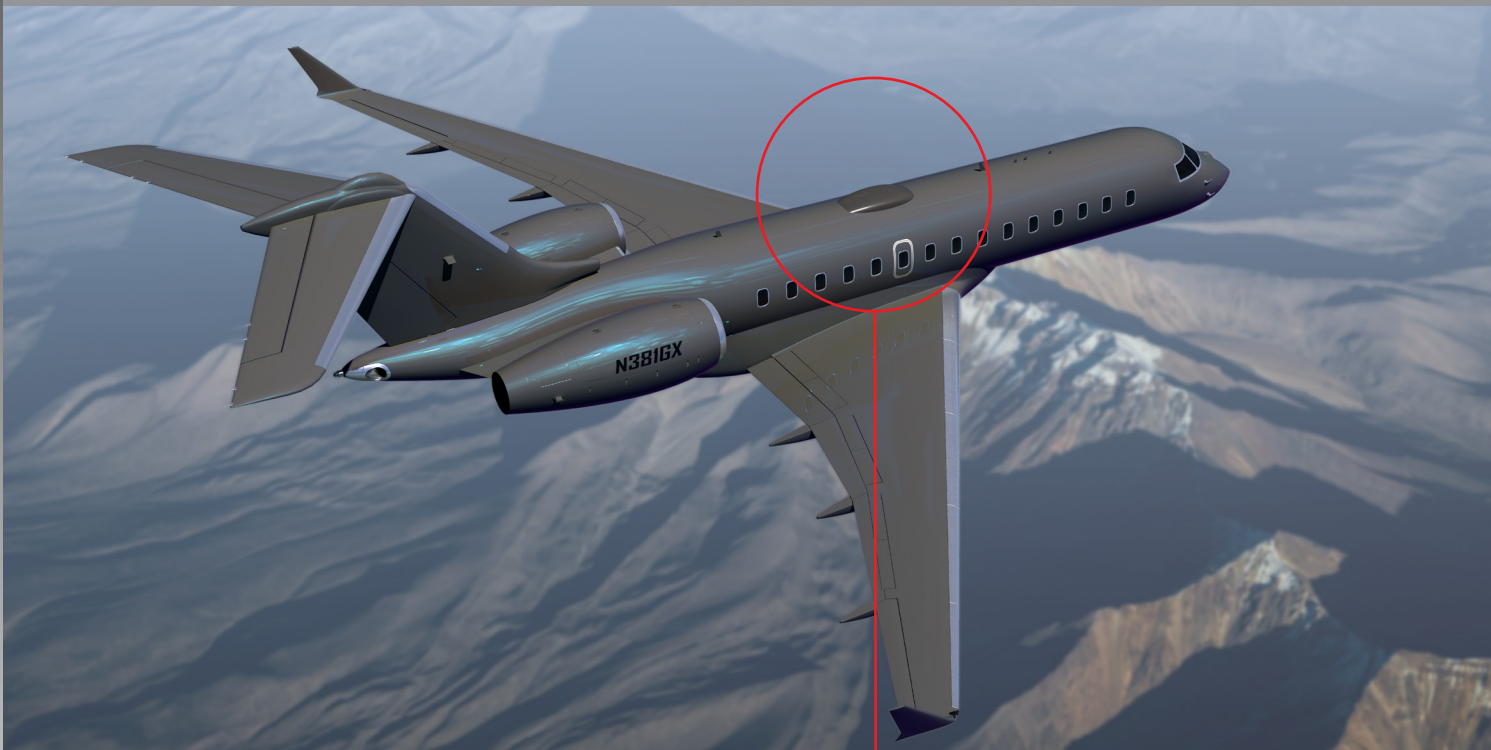


## High Performance from Every Orbit to Every Mission



**For special-mission ISR aircraft, the ThinAir GT 2517 integrates years of fielded, proven technology to deliver resilient, secure and high-bandwidth communications to the warfighter.**

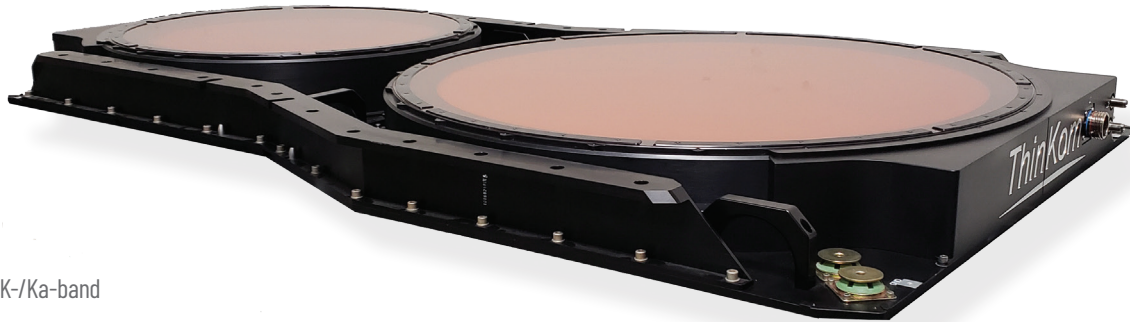
### Key Features

- Multi-orbit capable system
- Full civil and extended civil Ka-band operation
- Proven reliability; measured MTBF exceeds 100,000 hours
- Low profile and low drag delivers extended time on station
- Low probability of intercept/detection ensures secure comms
- Highly survivable to stringent EMI/EMC/EMP requirements
- Inherent anti-jam robustness
- Wide IBW supports hopping and protected tactical waveforms

# THINAIR® | GT2517

Full Spectrum Ka-band Satcom Antenna

## TECHNICAL SPECIFICATIONS



### Compatibility

Operating Band: K-/Ka-band

- Tx: 27.5 to 31.0 GHz

- Rx: 17.7 to 21.2 GHz

Network Certifications*		
GEO	MEO	LEO
Inmarsat GX+ Hughes Jupiter Thales/SES-17 inFlyt Avanti-Hylas Eutelsat WGS	03b Classic mPOWER	Telesat Lightspeed

\*Antennas are network agnostic and capable of operating on other civil and government LEO, MEO, and GEO networks as they come online.

### Throughput and Performance

(Typical, at mid-band, cruise conditions, not including radome)

Data Rates: Up to 830 Mbps down and 200 Mbps up (network dependent)

G/T: 18.5 dB/K peak (13.5 dB/K at 20° elev.)

Network Efficiency: Up to 4 bits/Hz

Typical EIRP (Psat):

27.5-30.0 GHz

56.0 dBW (51.0 dBW at 20°)

30.0-31.0 GHz

56.5 dBW (52.0 dBW at 20°)

Transmit EIRP Spectral Density Limit:

- 36 to 41.5 dBW/MHz (40 dBW/MHz typical) over elevation and skew (per 47 CFR 25.218)

- 54 to 59.5 dBW/MHz (58 dBW/MHz typical) over elevation and skew (per MILSTD-188-164B)

Azimuth Beamwidth: 1.8° Tx and 1.7° Rx

First Sidelobe: -20 dB typical

Polarization: Switchable circular (co/orthogonal), simultaneous dual-pol mode

Axial Ratio: <1.5 dB typical

### Environmental

Operating Temperature: -55°C to +74°C external

Environmental Compatibility: RTCA/DO-160G

Physical Characteristics		
OAE Dimensions (L x W x H*)	88 in x 43 in x 7 in (2.8 m x 1.1 m x 0.2 m)	
VICTS Weights	Tx	45 lb (20.4 kg)
	Rx	63 lb (28.6 kg)
Avg. System Power	323 W	

\*Above fuselage crown

### Tracking and Agility

Azimuth Coverage: 360° continuous

Elevation Coverage: +10° to +90°

Beam Agility: >250°/sec

Tracking Accuracy: <0.2°

### Regulatory Compliance

WRC-19 5G Terrestrial Protection

ITU Article 22 Section II

## ThinKom

www.thinkom.com

4881 West 145th Street, Hawthorne, CA 90250 USA

1.310.371.5486

© 2023 ThinKom Solutions, Inc. All rights reserved. ThinKom Solutions reserves the right to make changes in its products or specifications at any time and without notice. All trademarks indicated as such herein are trademarks of ThinKom Solutions.

© Reg. U.S. Patent and Trademark Office.

TA6T2517Rev 09/23