

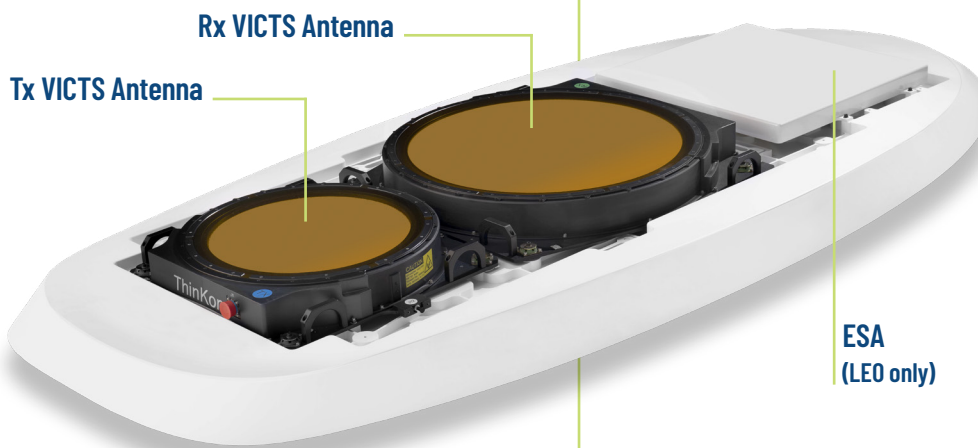
ThinKom

www.thinkom.com

ThinAir[®] | Plus

Simultaneous Multi-Orbit IFC Antenna System

Next-Gen IFC from Every Orbit to Every Seat



ThinAir Plus merges a ThinKom Ka2517 phased array with a LEO-only ESA in a single installation for ultimate resiliency, flexibility, and efficiency.

Key Features

- Optimized customer experience and data pricing
- Simultaneous multi-orbit operation minimizes dark tails
- Ka2517 VICTS
 - Provides Ka GEO, MEO and LEO operation
 - Primary data pipe, supporting high-density areas
 - Network agnostic, maximizing flexibility
 - Patented technology, proven long-term reliability
- LEO-only ESA
 - Supports current and emergent LEO networks
 - Provides low-latency connectivity



VICTS Antenna Specifications

Details on integrated ESA options available upon request

Compatibility

Operating Band: Ka-band

- Tx: 27.5 to 30 GHz

- Rx: 17.3 to 20.2 GHz

Constellations: LEO/MEO/GEO

Satellite Services: Agnostic; inquire for specific network certifications

Tracking and Agility

Azimuth Coverage: 360° continuous

Elevation Coverage: +7.5° to +90° (network dependent)

Beam Agility: >250°/sec

Tracking Accuracy: <0.2°

Throughput and Performance

Typical, at mid-band, cruise conditions, not including radome.

Data Rates: Up to 1 Gbps 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

Instantaneous Bandwidth: 500 MHz

EIRP (Psat): 55.5 dBW (51 dBW at 20° elev., 80 W Psat SSPB);

assumes 1.5 dB SSPA-to-Tx LRU interconnect losses

Transmit EIRP Spectral Density: (per 47 CFR 25.218)

- Up to 40.5 dBW/MHz ESD at high latitudes (to 75° N/S)

- Up to 41.5 dBW/MHz ESD at low to mid latitudes (to 50° N/S)

Azimuth Beamwidth: 1.8° Tx and 1.7° Rx

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

Axial Ratio: <1.5 dB typical

Size, Weight and Power (excluding LEO-only ESA antenna)

OAE Dimensions (L x W x H*)	121 in x 48 in x 7.9 in (3.07 m x 1.2 m x 0.2 m)
Antenna Weight	104 lb (47 kg)
Avg. System Power	450 W

*Above fuselage crown

Environmental

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

Environmental Compatibility: RTCA/DO-160G

Regulatory Compliance

FCC/ITU/ETSI (GSO operational)

ITU Article 22 (NGSO operational)

ESIM/WRC-19 (Terrestrial Interoperable)

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