

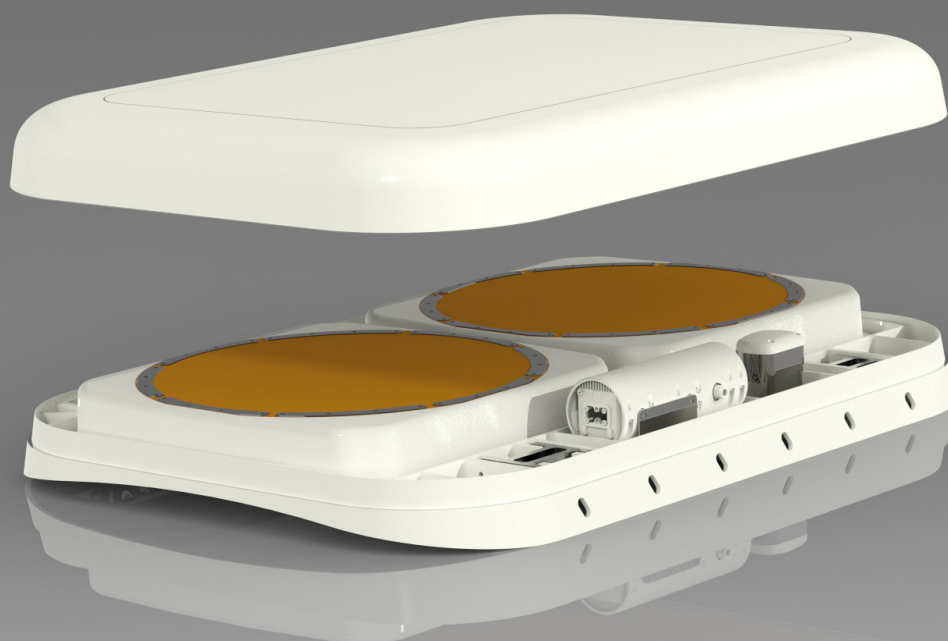
ThinKom

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ThinAir[®] | Nexus

Fully Integrated Multi-Orbit IFC Antenna System

The Smallest, *Cooler* Multi-Orbit IFC Antenna System

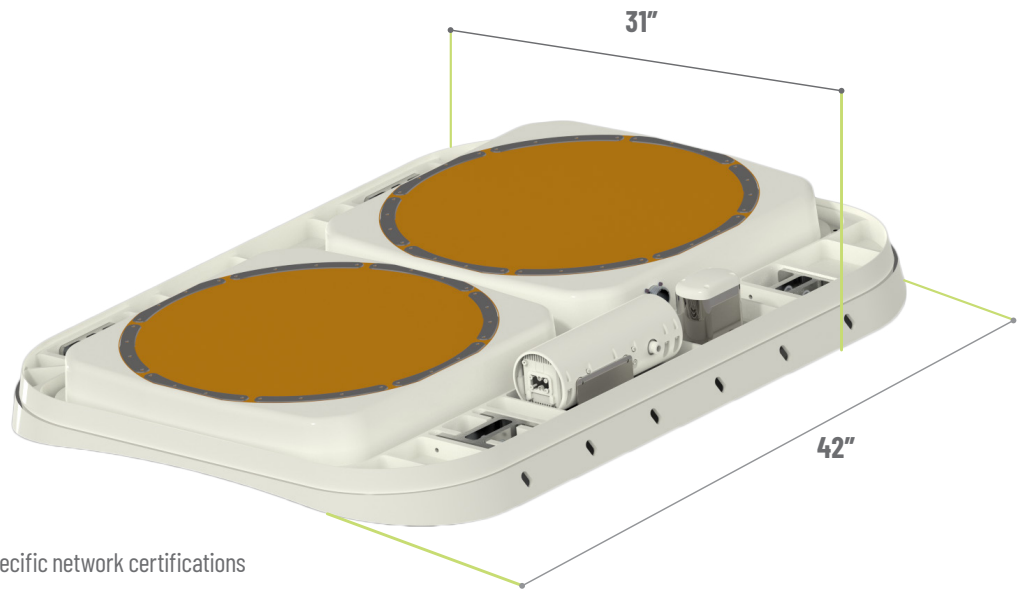


We took our proven performance and distilled it down into the smallest, coolest (*lowest operating temperature*) multi-orbit IFC terminal available.

Key Features

- Seamless multi-orbit operation on GSO and NGSO networks
- Modem agnostic for flexibility among all networks
- Fully integrated, designed for simplicity and rapid installation
- Low profile and lightweight for fuel savings
- Patented, proven VICTS technology for long-term reliability
- Unlimited gate-to-gate operation (low prime power demands)
- High throughput: Up to 1.2 Gbps down and 190 Mbps up
- Superior efficiency, 4x-8x higher than any ESA

TECHNICAL SPECIFICATIONS



Compatibility

Operating Band: Ka-band

- Tx: 27.5 to 31 GHz

- Rx: 17.7 to 21.2 GHz

Constellations: LEO/MEO/GEO/HEO

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: >400°/sec

Throughput and Performance

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

Data Rates: Up to 1.2 Gbps down and 190 Mbps up (network dependent)

G/T: 16 dB/K peak (11 dB/K at 20° elev.)

Network Efficiency: Up to 4 bits/Hz (network dependent)

Instantaneous Bandwidth: 750 MHz

EIRP: 51 dBW (46 dBW at 20° elev., 25 W P_{LIW} SSPB)

Transmit EIRP Spectral Density: Up to 41.5 dBW/MHz ESD (per 47 CFR 25.218)

Azimuth Beamwidth: 1.8° Tx and 2.4° Rx

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

Axial Ratio: <1.5 dB typical

Size, Weight and Power

(Includes Tx/Rx antenna, ACU, SSPB, radome, adapter plate and fairing)

Dimensions (L x W x H*): 42" x 31" x 5" (1.0m x 0.8m x 0.1m)

Weight: 140 lb (63.5 kg)

Average Power: 228 W

*Above fuselage crown

Regulatory Compliance

47 CFR 25.218

WRC-19 5G Terrestrial Protection

ITU Article 22 Section II

Environmental

Operating Temperature: -55°C to +70°C external

Environmental Compatibility: RTCA/DO-160G

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