

High Speed Broadband for Regional Jets

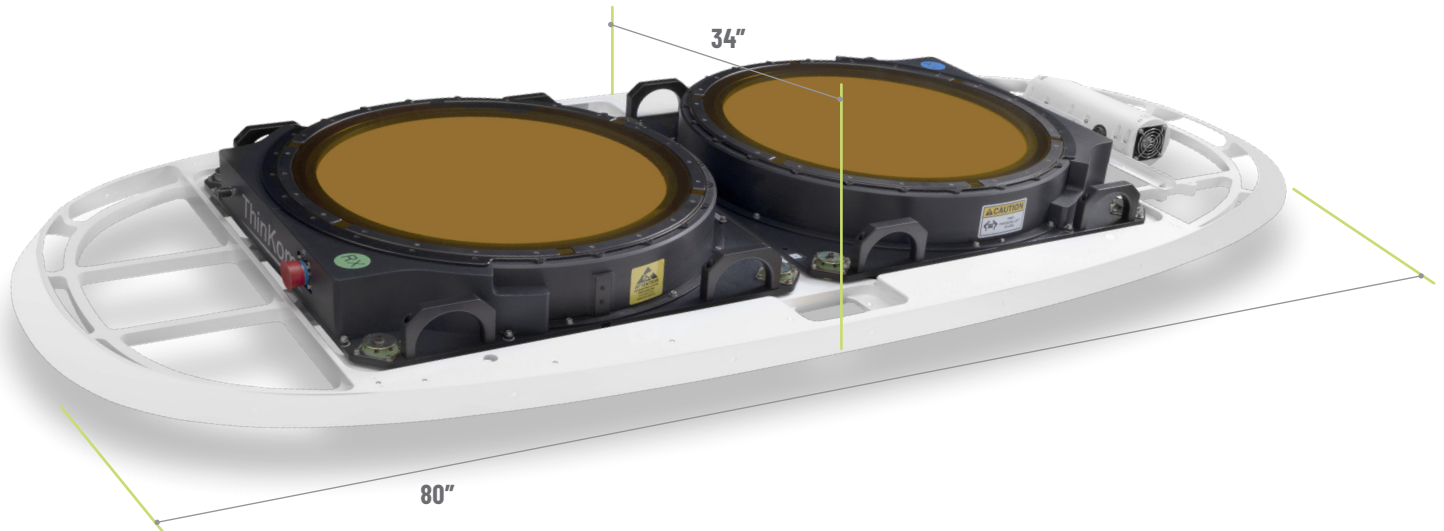


For regional fleets and smaller aircraft, the ThinAir Ka1717 integrates years of fielded technology in an ARINC 792 package for a compact, resilient and highly efficient connectivity system.

Key Features

- Seamless operation on GSO and NGSO networks
- Modem agnostic for flexibility among all networks
- Fully integrated OAE package, freeing up valuable cabin space
- Low profile and lightweight for fuel savings
- Patented, proven VICTS technology for long-term reliability
- Gate-to-gate operation with low prime power demands
- High throughput: Up to 500 Mbps down and 150 Mbps up
- High spectral efficiency (up to 3 bits/Hz)

TECHNICAL SPECIFICATIONS



Compatibility

Operating Band: Ka-band

- Tx: 27.5 to 30 GHz
- Rx: 17.7 to 20.2 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: >300°/sec

Tracking Accuracy: <0.2°

Throughput and Performance

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

Data Rates: Up to 500 Mbps down and 150 Mbps up (network dependent)

G/T: 16 dB/K peak (11.5 dB/K at 20° elev.)

Network Efficiency: Up to 3 bits/Hz

Instantaneous Bandwidth: 750 MHz

EIRP: 50.5 dBW (46 dBW at 20° elev., 25 W Psat SSPB)

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 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, KPSU, SSPB, radome, adapter plate and fairing)

Dimensions (L x W x H*): 80" x 34" x 9" (2.0 m x 0.9 m x 0.2 m)

Weight: 202 lb (91.6 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/D0-160G

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