High-Speed Satcom on the Move

Access satellite broadband without stopping to configure bulky equipment with the vehicle-mounted ThinSat 300. Stream videos, make calls and take high-speed connectivity to where cellular networks don’t exist or aren’t accessible.

Key Features

- Tracks satellites at any vehicle speed
- Compatible with wide-beam and HTS Ku-band services
- GEO/LEO interoperability
- Supports broadcast-quality streaming
- High spectral efficiency (up to 2 bits/Hz)
- Mounts on standard vehicle roof racks
- No wasted time to deploy or stow
- Discreet, ultra-low profile at only 4.3” high
Technical Specifications

Compatibility

- **Operating Band:** Ku-band
- **Constellations:** GEO and LEO
- **Satellite Services:** Commercial; wide beam, HTS and XTS

Tracking and Agility

- **Initial Acquisition:** 60 seconds (cold start)
- **Re-acquisition After 3-minute Blockage:** <1 second
- **Azimuth Coverage:** 360° continuous
- **Elevation Coverage:** +90° to +10° (depending on network)
- **Beam Agility:** Up to 100°/sec and 300°/sec²
- **Tracking Accuracy:** <0.2°
- **Mobility:** Maintains connectivity at highway speeds

Throughput and Performance

- **Data Rates:** HD backhaul capable (up to 10 Mbps)
- **EIRP:** 49 to 52 dBW (47 dBW at 20° elev., 40W BUC)
- **Tx Band:** 13.75 to 14.50 GHz
- **Rx Band:** 10.70 to 12.75 GHz
- **G/T:** 10 to 13 dB/K (8 dB/K at 20° elev.)
- **Network Efficiency:** 1 bit/Hz
- **Polarization:** Tracking linear (co-pol or orthogonal-pol)
- **X-pol Isolation:** 30 dB typical

BUC

- **Integrated:** 40W BUC
- **Optional:** External, higher-power amplifier up to 100W (Plin)

Power

- **Voltage:** 110 VAC/60Hz or 220 VAC/50 Hz

Size and Installation

- **Dimensions:** 59" x 39" x 4.3" (150 cm x 100 cm x 11 cm)
- **Weight:** 120 lbs. (55 kg, including BUC)
- **Installation:** Mounts on standard vehicle roof racks

Environmental

- **Operating Temperature:** -22°F to +140°F (-30°C to +60°C)
- **Storage Temperature:** -40°F to +158°F (-40°C to +70°C)

Compliance and Certifications

- **Regulatory:** FCC approved up to 18.4 dBW/4kHz
- **Certification:** FCC VMES 44 C.F.R 25.226

Applications

- Broadcast Media
- Homeland Security
- Intelligence/Surveillance
- Disaster Recovery
- Emergency Management
- Oil and Gas Operations