Building upon Viasat’s strong history of delivering aviation SATCOM terminals, the Global Aero Terminal 5518 (GAT-5518) is the latest to join Viasat’s family of next-gen, full-ITU Ka-band terminals. The GAT-5518 enables broadband in-flight connectivity services for commercial and government users on Viasat’s high-capacity satellite network. Capable of operating on full ITU Ka-band spectrum with all polarizations and delivering the industry’s highest data rates to and from the aircraft, the GAT-5518 terminal is the best choice for manned and unmanned aircraft. Each GAT-5518 terminal is made up of a 2-axis steerable 2-way Ka-band antenna with an integrated ACU, an antenna power supply unit and a modem. The GAT-5518 easily integrates onto an aircraft with a tail, fuselage, or hatch-mounted antenna and onboard modem — for a wide variety of in-flight applications and missions.

**THE LATEST PATH TO MULTI-TERABIT NETWORK CAPACITY**

The GAT-5518 delivers today’s fastest in-flight connectivity and a path to Viasat’s ultra-high capacity satellite network. With the world’s highest capacity Ka-band satellites over North America, Viasat provides manned and unmanned aircraft with an unrivaled in-flight service. Viasat’s GAT-5518 will work with the enhanced satellite technology of tomorrow — ViaSat-3, a global constellation of 1 Tbit/s Ka-band satellites — as well as Viasat and partner satellites currently operating today. Whether it is a commercial or government, MEO or GEO satellite, the GAT-5518 provides the customer with orbital and frequency diversity.

**SUPPORTS GOVERNMENT AND COMMERCIAL APPLICATIONS**

- Secure enroute government C3 and VIP transport communications for data, VoIP, VTC, internet access, virtual collaboration, and Viasat Unlimited Streaming
- Real-Time Intelligence, Surveillance and Reconnaissance (ISR) with HD Full Motion Video and Multi-sensor/Multi-Int operations for instant situational awareness and decision making
- Internet and streaming services — stay connected to emails, web browsing, video streaming, and business applications

**GLOBAL AERO TERMINAL 5518 AT-A-GLANCE**

- Tail or fuselage mount antenna with integrated RF and ACU

**Network and Services**

- Supports the full ITU Ka-band spectrum to maximize operational flexibility, throughput, and capacity
- Enables access to the highest capacity Ka-band satellites
- Operates on Viasat’s Hybrid Adaptive Network including commercial partner and US government* Ka-band constellations
- Flexible service plans with predictable monthly costs
- 24/7 global technical support

**Mission Sets**

- Real-Time Broadband ISR
- MedEvac/Telemedicine
- Search & Rescue
- Border/Maritime Surveillance

**Viasat Next-Gen Full-ITU Ka Terminals**

- GAT-5510 (G-12)
- GAT-5518 (G-18)
- GAT-5530 (Gen 2 KuKa)

* US Government satellite certifications in process.
## SPECIFICATIONS

### ANTENNA

**Class**
Tail or fuselage mount, parabolic reflector Ka-band Tx/Rx airborne antenna

**Aperture**
Parabolic reflector, circular polarization, electronically switchable, all combinations of R, L, co-pol, or cross-pol

**Frequency**
Full ITU Ka, Commercial and Military
Tx: 27.5 – 31.0 GHz
Rx: 17.7 – 21.2 GHz

**EIRP in 20W Tx mode**
53.8 dBW at 36K ft., midband frequency including radome loss

**EIRP in 10W Tx mode**
50.8 dBW at 36K ft., midband frequency including radome loss

**G/T**
15.0 dB/K at 36K ft., midband frequency including radome loss

**RF Electronics**
Integrated into antenna assembly

**Antenna Control**
Integrated into antenna assembly

**Elevation coverage**
0° to 90°

**Azimuth coverage**
0° to 360° continuous

**Swept Volume (DxH)**
Ø19.6 x 19.6 in.; Ø49.8 x 49.8 cm

**Weight**
35.0 lb.; 15.9 kg

**Operating Temperature**
−55 °C to +70 °C

### MODEM

**Form Factor**
ARINC 600 4 MCU

**Power Source**
115 VAC, 400 Hz, single phase, or 28 VDC

**Power Consumption**
175 W

**Dimensions (LxWxH)**
14.6 x 4.9 x 7.6 in.;
37.0 x 12.5 x 19.4 cm

**Weight**
17.0 lb.; 7.7 kg

**Operating Temperature**
−55 °C to +70 °C

### INTERFACE CABLES

**Modem to Antenna**
Two IFL cables

**Power Supply to Antenna**
One cable

### QUALIFICATIONS

**Environmental/EMC**
RTCA/DO-160G

### EXAMPLE SYSTEM DIAGRAM

![Example System Diagram](image-url)

**CONTACT**
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