The Viasat Global Aero Terminal 5510 is a Ka-band aviation satcom terminal that enables broadband in-flight connectivity services for commercial and government users on worldwide high-capacity satellite networks. Capable of delivering the industry’s highest data speeds to the aircraft, the tail or hatch-mounted antenna and onboard modem can be configured for a wide variety of in-flight applications and missions. This terminal easily integrates on large cabin and transport aircraft.

THE ONLY PATH TO MULTI-TERABIT NETWORK CAPACITY
The Viasat Global Aero Terminal 5510 delivers today’s fastest in-flight connectivity and the only path to Viasat’s ultra-high capacity satellite network. We already operate the world’s highest capacity Ka-band satellites over North America. Viasat-2 will expand Ka-band coverage across North and Central American, Caribbean, and trans-Atlantic routes, and the Viasat-3 constellation of 1 Tbps Ka-band satellites will provide the industry’s only truly global, truly broadband in-flight internet services.

SUPPORTS COMMERCIAL AND GOVERNMENT APPLICATIONS AND MISSIONS
» High-speed internet for office in the sky and streaming video to everyone on board
» Cockpit and crew connectivity

GLOBAL AERO TERMINAL 5510 AT-A-GLANCE
» Ultra-small satellite communications shipset
» Tail-mounted or hatch-mounted antenna with integrated RF and ACU
» Modem can be located up to 100 ft (30.5 m) from the antenna

Network and Services
» Supports full 3.5 GHz Ka-band spectrum to maximize satellite access
» Enables access to the highest capacity Ka-band satellites
» Operates on our network of Viasat, partner, and US government Ka-band satellites
» Flexible service plans with predictable monthly costs
» 24/7 global technical support
**SPECIFICATIONS**

**OPERATING FREQUENCY**
- Transmit: 27.5 to 31.0 GHz
- Receive: 17.7 to 21.2 GHz

**ANTENNA PERFORMANCE**
- **G/T**: 10.6 dB/K at 36K ft, midband frequency including radome loss
- **EIRP**: 49.6 dBW at 36K ft, midband frequency including radome loss
- **SSPA RF Power**: 10 W and 20 W modes (electronically switchable)
- **Polarization**: Circular, electronically switchable, all combinations of R, L, co-pol, or cross-pol
- **Coverage**: Azimuth 0° to 360°, Elevation 0° to 90°
- **RF Electronics**: Integrated and mounted at back of reflector
- **Antenna Control**: Built-in Antenna Control Unit (ACU) mounted to antenna azimuth deck
- **Servo Motors**: Ruggedized programmable servo-motors for Az over El control
- **Navigation Data**: GE IRU or ARINC429

**ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS**

**Antenna**
- **Weight on Tail**: 26.4 lb., 12 kg
- **Operating Temperature**: -55° C to +70° C
- **Operating Vibrations**: DO-160G, section 8, category S, curve E
- **Operational Shock**: DO-160G, section 7, category B
- **Waterproofness**: DO-160G, section 14, category W
- **Radiated Emissions**: DO-160G, section 21, category P

**Antenna Power Supply**
- **Size**: 8 x 10.6 x 3.4 in.
- **Weight**: 10 lb; 4.5 kg
- **Input Voltage**: +115 VAC, 300–800 Hz, or +28 VDC
- **Power (Mode Dependent)**: 377 W for 10 W SSPA mode, 432 W for 20 W SSPA mode

**Modem**
- **Size**: ARINC 600 4 MCU
- **Weight**: 20 lb; 9.0 kg
- **Input Voltage**: +115 VAC input 300–800 Hz, < 150 W

**SYSTEM DIAGRAM**

**CONTACT**

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