Building upon Viasat’s strong history of delivering aviation SATCOM terminals, the Global Aero Terminal 5510 (GAT-5510) is apart of Viasat’s family of next-gen, full-ITU Ka-band terminals. The GAT-5510 enables broadband in-flight connectivity services for business jet 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-5510 terminal is the best choice for manned and unmanned aircraft.

Each GAT-5510 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-5510 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 Viasat Global Aero Terminal 5510 delivers today’s fastest in-flight connectivity and the only path to Viasat’s ultra-high capacity satellite network. Viasat has the world’s highest capacity Ka-band satellites over North America. The recent launch of ViaSat-2 expands Ka-band coverage across North and Central American, Caribbean, and trans-Atlantic routes. Viasat’s GAT-5510 will work with the enhanced satellite technology of tomorrow - ViaSat-3, a global constellation of 1 Tbps Ka-band satellites, to provide in-flight internet services.

SUPPORTS BUSINESS AVIATION AND GOVERNMENT APPLICATIONS
- Business aviation internet and streaming services — stay connected to emails, web browsing, video streaming, and business 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
**SPECIFICATIONS**

**ANTENNA**

<table>
<thead>
<tr>
<th>Class</th>
<th>Tail or fuselage mount, parabolic reflector Ka-band TX/RX airborne antenna</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aperture</td>
<td>Parabolic reflector, circular polarization, electronically switchable, all combinations of R, L, co-pol, or cross-pol</td>
</tr>
<tr>
<td>Frequency</td>
<td>Full ITU Ka, Commercial and Military</td>
</tr>
<tr>
<td>EIRP, 20W Tx mode</td>
<td>49.6 dBW at 36K ft., midband frequency including radome loss</td>
</tr>
<tr>
<td>EIRP, 10W Tx mode</td>
<td>46.6 dBW at 36K ft., midband frequency including radome loss</td>
</tr>
<tr>
<td>G/T</td>
<td>10.6 dB/K at 36K ft., midband frequency including radome loss</td>
</tr>
<tr>
<td>RF Electronics</td>
<td>Integrated into antenna assembly</td>
</tr>
<tr>
<td>Antenna Control</td>
<td>Integrated into antenna assembly</td>
</tr>
<tr>
<td>Elevation Coverage</td>
<td>0° to 90°</td>
</tr>
<tr>
<td>Azimuth Coverage</td>
<td>0° to 360°</td>
</tr>
<tr>
<td>Swept Volume (D x H)</td>
<td>Ø 12.5 x 13.1 in.</td>
</tr>
<tr>
<td>Weight</td>
<td>26.4 lb., 11.9 kg</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-55° C to +70° C</td>
</tr>
</tbody>
</table>

**Antenna Power Supply**

- **Power Source**: 115 VAC, 360 Hz - 800 Hz single phase, or 28 VDC
- **Power Consumption**: 420 W
- **Dimensions (LxWxH)**: 11.0 x 8.0 x 3.3 in.; 28.0 x 20.8 x 8.3 cm
- **Weight**: 7.9 lb; 3.6 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

**Baseband Interfaces**

- **Data**: 1000 BASE-T Ethernet
- **Control**: 1000 BASE-T Ethernet

**Navigations Data**

- **ARINC 429, RS-422**

**External Modem Support**

- **Transmit Frequency**: 950 – 1450 MHz
- **Receive Frequency**: 950 – 2150 MHz

**INTERFACE CABLES**

- **Modem to Antenna**: Two IFL cables
- **Power Supply to Antenna**: One cable

**QUALIFICATIONS**

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

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**EXAMPLE SYSTEM DIAGRAM**

![Diagram of a satellite communication system](https://example.com/diagram.png)

**CONTACT**

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