

## HIGHEST SPEED BROADBAND ACCESS FOR GLOBAL IN-FLIGHT CONNECTIVITY



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

### GLOBAL AERO TERMINAL 5510 AT-A-GLANCE

- » Tail, fuselage, or hatch-mounted 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 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)

## SPECIFICATIONS

### ANTENNA

<b>Class</b>	Tail or fuselage mount, parabolic reflector Ka-band TX/RX airborne antenna
<b>Aperture</b>	Parabolic reflector, circular polarization, electronically switchable, all combinations of R, L, co-pol, or cross-pol
<b>Frequency</b>	Full ITU Ka, Commercial and Military Tx: 27.5 - 31.0 GHz Rx 17.7 to 21.2 GHz
<b>EIRP, 20W Tx mode</b>	49.6 dBW at 36K ft., midband frequency including radome loss
<b>EIRP, 10W Tx mode</b>	46.6 dBW at 36K ft., midband frequency including radome loss
<b>G/T</b>	10.6 dB/K at 36K ft., midband frequency including radome loss
<b>RF Electronics</b>	Integrated into antenna assembly
<b>Antenna Control</b>	Integrated into antenna assembly
<b>Elevation Coverage</b>	0° to 90°
<b>Azimuth Coverage</b>	0° to 360°
<b>Swept Volume (D x H)</b>	Ø 12.5 x 13.1 in. Ø 31.7 x 33.3 cm
<b>Weight</b>	26.4 lb., 11.9 kg
<b>Operating Temperature</b>	-55° C to +70° C

### Antenna Power Supply

» <b>Power Source</b>	115 VAC, 360 Hz -800 Hz single phase, or 28 VDC
» <b>Power Consumption</b>	420 W
» <b>Dimensions (LxWxH)</b>	11.0 x 8.0 x 3.3 in.; 28.0 x 20.8 x 8.3 cm
» <b>Weight</b>	7.9lb; 3.6 kg
» <b>Operating Temperature</b>	-55° C to +70° C

### MODEM

<b>Form Factor</b>	ARINC 600 4 MCU
<b>Power Source</b>	115 VAC, 400 Hz, single phase or 28 VDC
<b>Power Consumption</b>	175 W
<b>Dimensions (LxWxH)</b>	14.6 x 4.9 x 7.6 in.; 37.0 x 12.5 x 19.4 cm
<b>Weight</b>	17.0 lb; 7.7 kg
<b>Operating Temperature</b>	-55° C to +70° C
<b>Baseband Interfaces</b>	
» <b>Data</b>	1000 BASE-T Ethernet
» <b>Control</b>	1000 BASE-T Ethernet
<b>Navigations Data</b>	ARINC 429, RS-422
<b>External Modem Support</b>	
» <b>Transmit Frequency</b>	950 – 1450 MHz
» <b>Receive Frequency</b>	950 – 2150 MHz

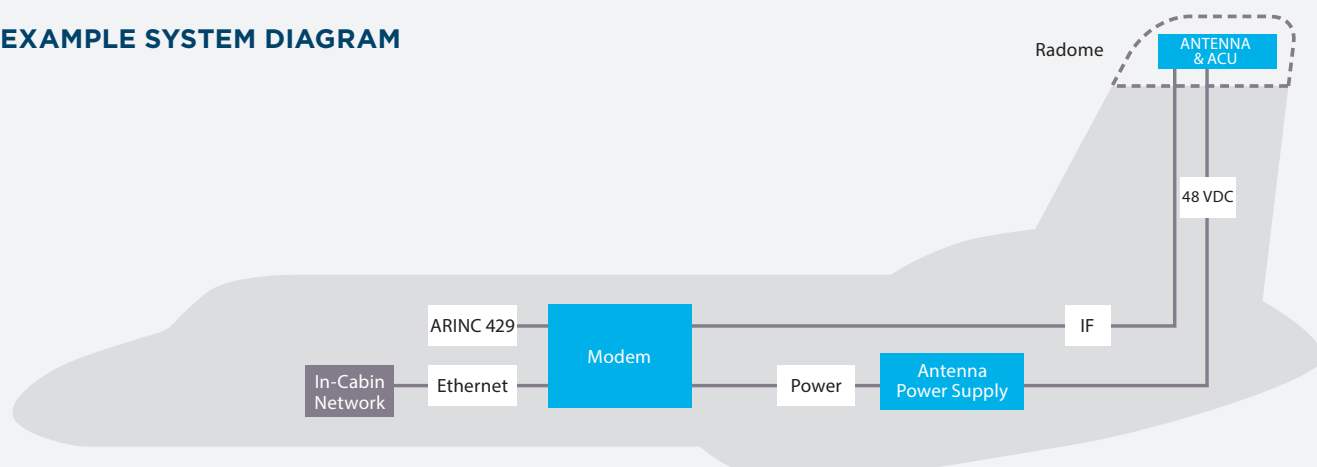
### INTERFACE CABLES

<b>Modem to Antenna</b>	Two IFL cables
<b>Power Supply to Antenna</b>	One cable

### QUALIFICATIONS

<b>Environmental/EMC</b>	RTCA/DO-160G
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## EXAMPLE SYSTEM DIAGRAM



## CONTACT

TEL +1 760 476 2200 or 888 842 7281 (US Toll Free) EMAIL insidesales@viasat.com

WEB www.viasat.com/services/business-aviation

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