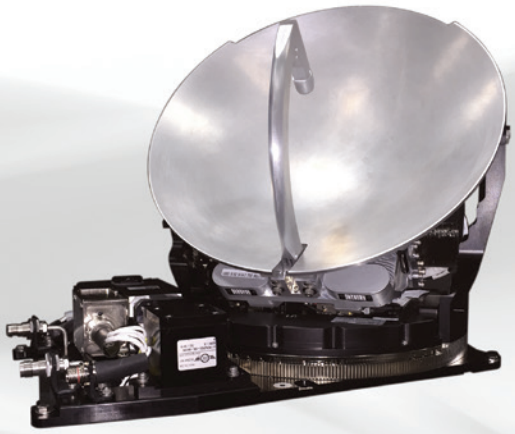
Global Aero Terminal 5510

Ka-Band Satellite Broadband for Large Cabin Aircraft

HIGHEST SPEED INTERNET ACCESS FOR GLOBAL IN-FLIGHT CONNECTIVITY



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. The launch of 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

Global Aero Terminal 5510

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

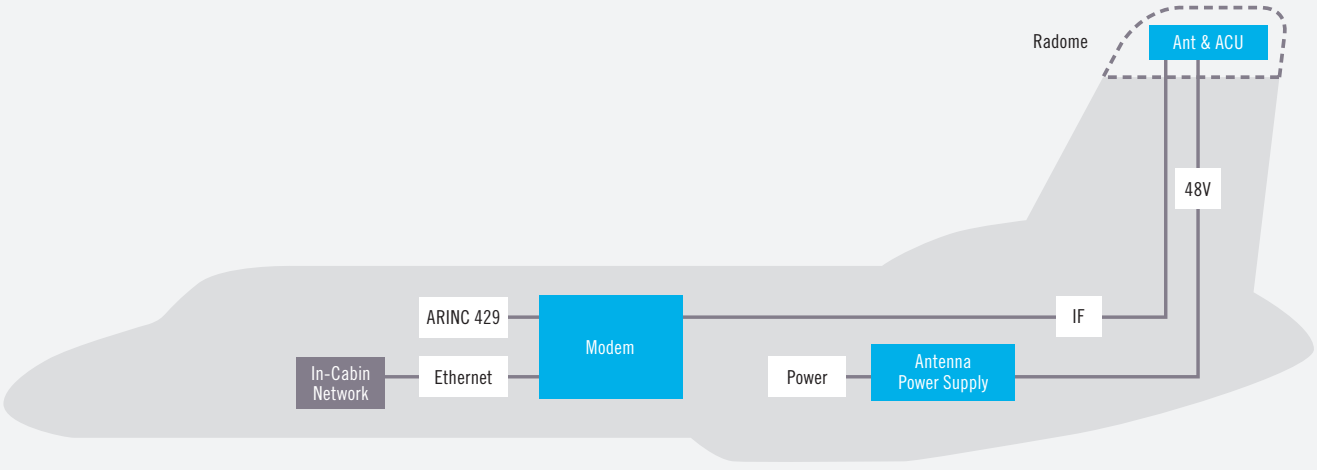
Antenna Power Supply

» **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



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