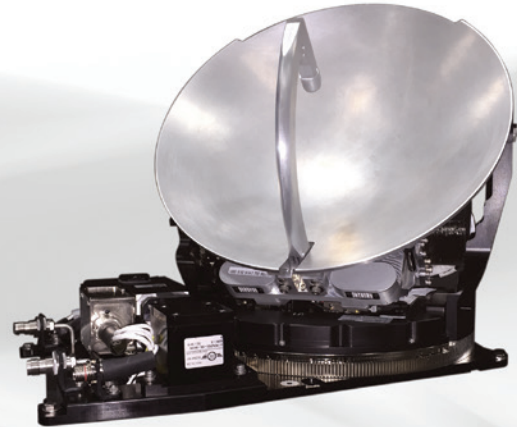


HIGHEST SPEED INTERNET ACCESS FOR GLOBAL IN-FLIGHT CONNECTIVITY



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. 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

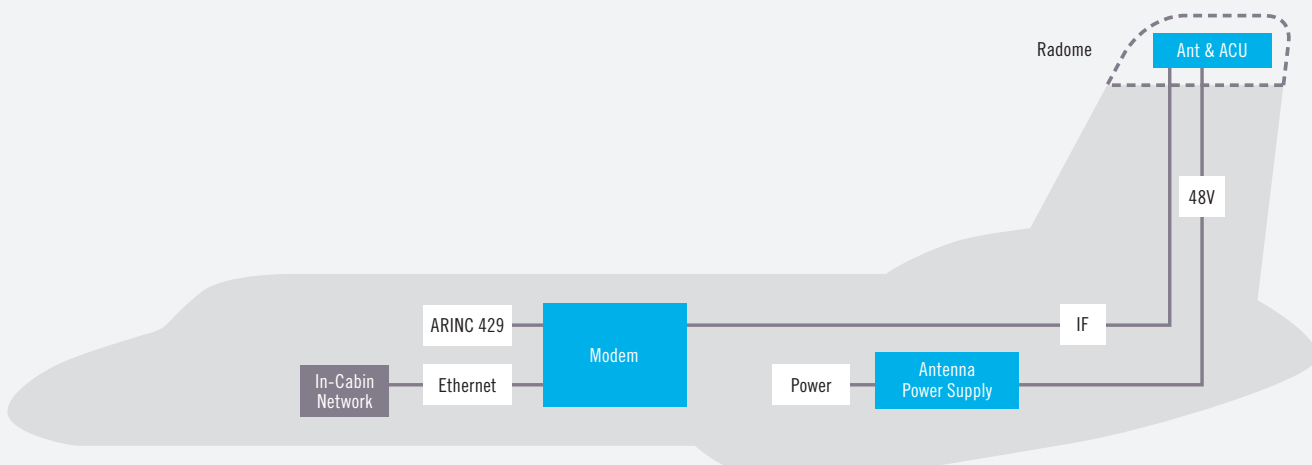
Antenna Power Supply

» 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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