The Viasat Global Aero Terminal 5530 is a 2nd generation hybrid Ka- and Ku-band aviation satcom terminal that enables global broadband connectivity services for commercial and government users on worldwide high-capacity satellite networks. The fuselage-mounted antenna and onboard modem can be configured for a wide variety of in-flight applications and missions. This terminal integrates easily into medium and long-range airframes, plus line-fit options offer procurement flexibility.

SEAMLESS GLOBAL ROAMING ON THE BEST AVAILABLE BROADBAND NETWORK

This advanced hybrid terminal traverses our high-capacity Ka-band and global Ku-band satellite networks seamlessly to keep passengers connected as they fly.

A VARIETY OF COMMERCIAL AND GOVERNMENT APPLICATIONS AND MISSIONS

» High-speed internet and streaming

» Cockpit and cabin crew connectivity

» Real-time transfer of aircraft operational data

» Delivery of HD video streams off the aircraft

GLOBAL AERO TERMINAL 5530 AT-A-GLANCE

High-Speed Connectivity

» Supports multiple simultaneous high-quality video streams

» Ku- and full ITU Ka-band satellite connectivity, including Military and Commercial-Ka

» High-capacity coverage over key military regions and busiest passenger air routes

» Private government in-theater networks available for specific mission charters

Primary Applications

» Airline passenger access to high-speed internet

» Cabin and cockpit crew connectivity for insight into operations

» En route government C3 and VIP transport communications for data, VoIP, VTC, and internet access

» Real-Time Intelligence, Surveillance and Reconnaissance (ISR) with HD Video to monitor a mission's progression throughout execution

» Private VVIP aviation internet and streaming media services for large number of users

SPECIFICATIONS

ANTENNA

Class	Fuselage mount, 2nd generation medium profile dual Ku-/Ka-band Tx/Rx airborne antenna

Ka-band

» **Aperture**	Waveguide horn array; circular polarization, electronically switchable, cross- and co-pol.
» **Frequency**	Full ITU Ka, Commercial and Military Tx: 27.5 – 31.0 GHz Rx: 17.7 – 21.2 GHz
» **EIRP**	52.5 dBW (includes radome loss)
» **G/T**	12.5 dB/K (includes radome loss)

Ku-band

» **Aperture**	Waveguide horn array; linear polarization, electronic polarization tracking, cross- and co-pol.
» **Frequency**	Tx: 14.0 – 14.5 GHz Rx: 10.95 – 12.75 GHz
» **EIRP**	47.0 dBW (includes radome loss)
» **G/T**	11.0 dB/K (includes radome loss)
RF Electronics	Integrated into antenna assembly
Antenna Control	Integrated into antenna assembly
Elevation coverage	0° to 90°
Azimuth coverage	0° to 360° continuous
Swept Volume (DxH)	Ø39.25 x 11.3 in.; Ø99.7 x 28.7 cm
Weight	163.0 lb.; 73.9 kg
Operating Temperature	-61°C to +70°C

Antenna Power Supply

» **Power Source**	115 VAC, 360 Hz – 800 Hz single phase, or 28 VDC
» **Power Consumption**	465 W max.
» **Dimensions (LxWxH)**	11 x 8 x 3.3 in.; 28 x 21 x 8.4 cm
» **Weight**	7.9 lb.; 3.6 kg
» **Operating Temperature**	-40 °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 max.
Dimensions (LxWxH)	14.55 x 4.90 x 7.64 in.; 37 x 12.45 x 19.41 cm
Weight	17.0 lb.; 7.7 kg
Operating Temperature	-40°C to +70°C
Baseband Interfaces	
» **Data**	1000 BASE-T Ethernet
» **Control**	1000 BASE-T Ethernet
Navigation Data	ARINC 429
External Modem Support	
» **Transmit Frequency**	950 – 1450 MHz
» **Receive Frequency**	950 – 2150 MHz

RADOME

Dimensions (LxWxH)	93 x 42 x 13 in.; 235 x 107 x 32 cm
Weight	90 lb.; 41 kg

QUALIFICATIONS

Environmental/EMC	RTCA/DO-160G, MIL-STD-810, MIL-STD-461

SYSTEM DIAGRAM

GLOBAL AERO TERMINAL
CERTIFIED RADOME
Aircraft Exterior
Pressure Bulkhead
Aircraft Interior
Antenna System
Navigation Data
Antenna Power Supply
Satellite Modem
Aircraft AC Power
In-Cabin Network
Other Aircraft Systems
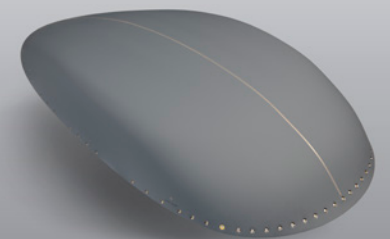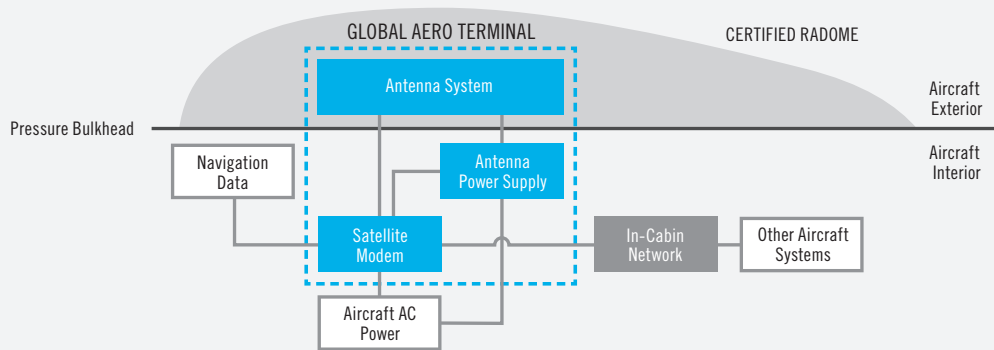
VIASAT CERTIFIED KA/KU RADOME FOR GLOBAL AERO TERMINAL 5530

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