

# Global Aero Terminal 5530

Second-generation hybrid Ka- and Ku-band aviation SATCOM terminal



## Seamless, global roaming on the Hybrid Adaptive Network

The Viasat Global Aero Terminal 5530 (GAT-5530) is a second-generation hybrid Ka and Ku-band aviation SATCOM terminal that enables global broadband connectivity service for commercial users on worldwide high-capacity satellite networks.

Today Viasat provides global in-flight internet and connectivity services to Government senior leadership aircraft with our KuKa service. Viasat offers a field-proven, certified, hybrid Ka- and Ku-band system, which will keep every passenger connected to Viasat's best available satellite network. The hybrid terminal and radome enables automatic in-flight network switching across Ku- and Ka-band satellite networks for an advanced global roaming capability. Viasat is here to take your passengers global today and on to the future.



A mature, fully operational terminal. A low SWaP solution — a dual-band, fuselage mounted antenna and onboard modem.



- › Operates over commercial GEO Ku and Ka and commercial MEO Ka networks
- › The only path to a global, multi-terabit satellite network



The GAT-5530's multi-frequency and multi-waveform, flexible terminal architecture, allows for the platform to operate over multiple networks.



Passengers can now engage with the Viasat seamless global roaming experience on the best available broadband network ... Global coverage starts now.



With every route, passengers can receive high-capacity coverage over key travel regions with access to wireless entertainment and connectivity.



Delivering the fastest data speeds and supporting:

- › Real-time transfer of aircraft operational data
- › Delivering the industry's highest data speeds to each aircraft

# Viasat Global Aero Terminal 5530

## Antenna specifications

### CLASS

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

### Ka-BAND

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

### Ku-BAND

<b>Aperture</b>	Waveguide horn array; linear polarization, electronic polarization tracking, cross and co-pol.
<b>Frequency</b>	› Tx: 14.0 – 14.5 GHz › Rx: 10.95 – 12.75 GHz
<b>EIRP</b>	47.0 dBW (includes radome loss)
<b>G/T</b>	11.0 dB/K (includes radome loss)

### PHYSICAL CHARACTERISTICS

<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° continuous
<b>Swept volume (DxH)</b>	Ø39.25 x 11.3 in.; Ø99.7 x 28.7 cm
<b>Weight</b>	163.0 lb.; 73.9 kg
<b>Operating temp.</b>	-61 °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>	465 W max.
<b>Dimensions (LxWxH)</b>	11 x 8 x 3.3 in.; 28 x 21 x 8.4 cm
<b>Weight</b>	7.9 lb.; 3.6 kg
<b>Operating temp.</b>	-40 °C to +70 °C

## Additional specifications

### 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 max.
<b>Dimensions (LxWxH)</b>	14.55 x 4.90 x 7.64 in.; 37 x 12.45 x 19.41 cm
<b>Weight</b>	17.0 lb.; 7.7 kg
<b>Operating temp.</b>	-40 °C to +70 °C
<b>Baseband interfaces</b>	› Data: 1000 BASE-T Ethernet › Control: 1000 BASE-T Ethernet
<b>Navigation data</b>	ARINC 429, RS-422
<b>External modem support</b>	› Transmit Frequency: 950 – 1450 MHz › Receive Frequency: 950 – 2150 MHz

### RADOME

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

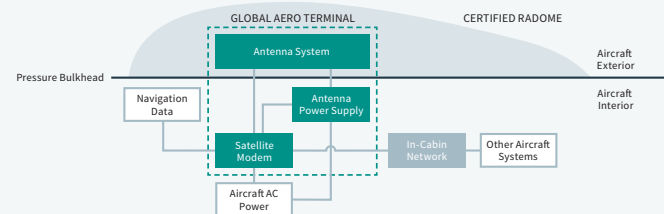
### QUALIFICATIONS

<b>Environmental/EMC</b>	RTCA/DO-160G, MIL-STD-810, MIL-STD-461
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### SERVER

<b>Function</b>	High-end in-flight entertainment server with failure tolerant solid state storage
<b>Form factor</b>	ARINC600 4MCU with Type II connector
<b>Power management   input</b>	ACPI 4.0   115 VAC 360-800 Hz or 28VDC   max 200 watts
<b>Weight</b>	16 lbs. (7.3 kg)

System diagram



### Global headquarters

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### Contact

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