



In-flight connectivity for VIP aviation

Service and system overview



Connect without compromise

Viasat VIP service, designed for transport category aircraft, offers the fastest connectivity speeds for private aircraft around the globe and through all phases of flight. Our network of reliable and high-capacity satellites deliver an unmatched experience today with a path toward an even better online experience, providing VIP aircraft the best service available where they fly. Typical speeds experienced are greater than 30 Mbps, with peaks exceeding 100 Mbps.

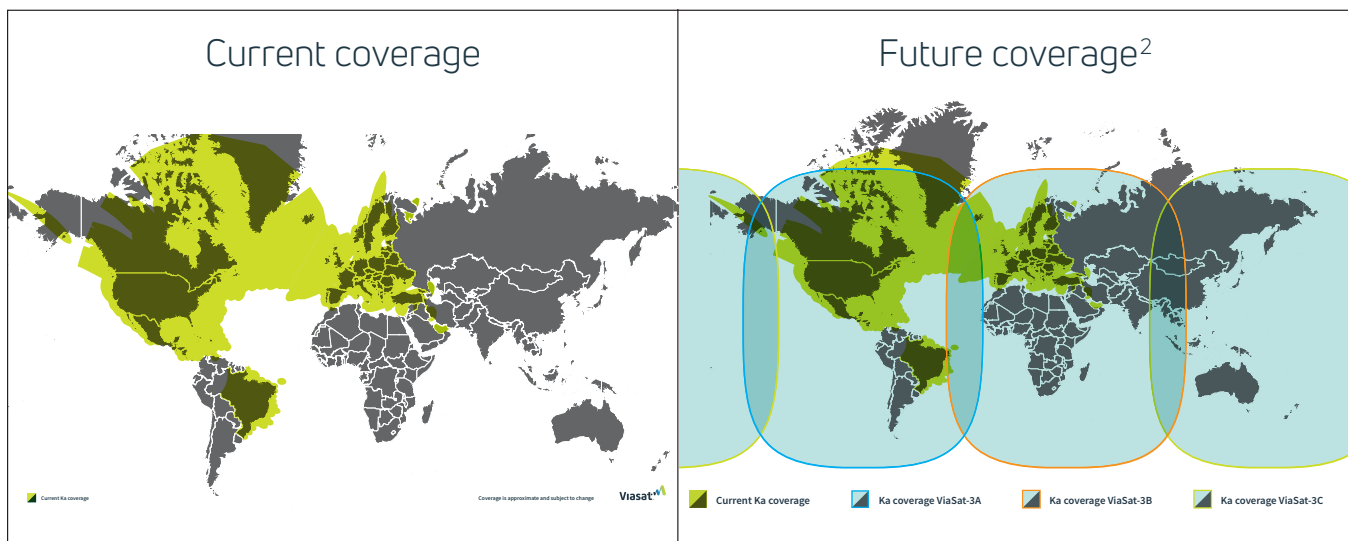
Unrivaled connectivity for today and tomorrow

Viasat has redefined in-flight internet on commercial airlines with high-capacity Ka-band satellite service, eclipsing the speed and quality of other in-cabin services. Now, this highly differentiated, award-winning service is available for VIP aviation to meet the ever increasing demand for data and speed, driven by new and future applications.

Viasat VIP internet service is designed to meet the high expectations of VIP passengers who expect the best. VIP

aircraft can keep everyone on board productive with video teleconferencing, voice calls, corporate VPN¹ access, media streaming, and more. Only the Viasat Ka-band satellite network has the bandwidth to provide everyone on board your aircraft with the highest quality connectivity available today and into the future.

More capacity, more speed, more global range, and more high-speed data make Viasat the smarter choice for in-flight connectivity.



¹VPN performance varies. Speak to a Viasat Business Aviation expert for VPN recommendations.

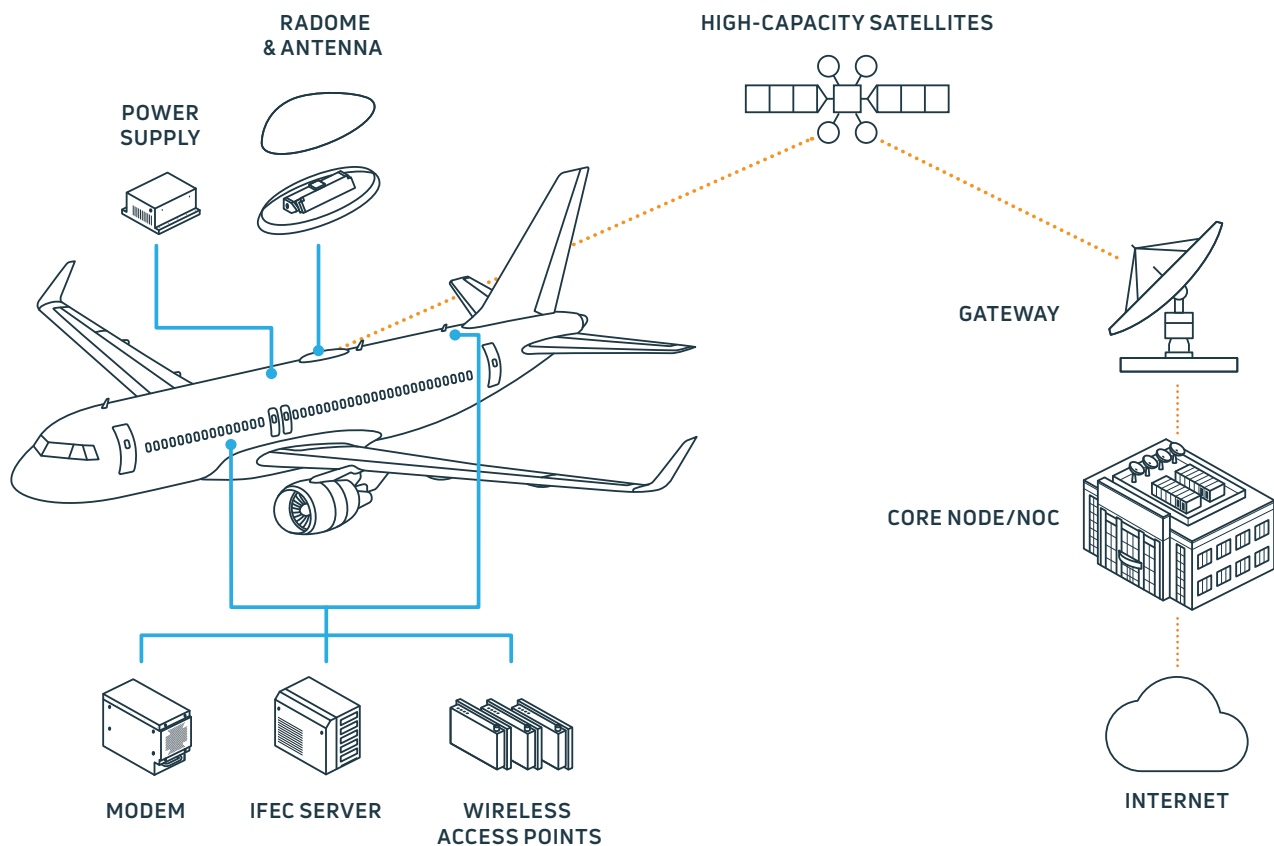
²Future coverage is an expansion of current Ka and Ku coverage. Coverage is approximate and subject to change.

How it works

The service uses the Viasat global satellite network to transmit data to and from the aircraft. The aircraft has several wireless access points to provide everyone on board with a strong signal. Passengers connect their devices to the aircraft network similar to Wi-Fi connections on the ground making it simple and seamless.

Data is transmitted between the plane and the ground infrastructure through the satellite. As the plane moves through the air, the system automatically performs hand overs between coverage areas.

Viasat equipment and network



Equipping your aircraft

The Viasat Aero Mobile Terminals are an integral part in bringing high-speed internet service to narrow and wide-body aircraft. Each terminal, comprised of a Ka-band or dual Ka-/Ku-band antenna, modem, and antenna control unit, integrates into the aircraft's cabin network and communicates with the Viasat global satellite network. The terminals are optimized to meet the needs of VIP aviation customers when exceptional performance is needed for internet, voice, and VPN connections.



Global Aero Terminal 5530
Ka-band and Ku-band operation



Global Aero Terminal 5520
Ka-band operation



Radome

Specifications

Global Aero Terminal 5530

Dual-band (Ka- and Ku-band) Broadband Airborne Terminal

Antenna

Array configuration	Suitable for most medium and long-range commercial airframes
› Ka-band	Waveguide horn array; with electronically switched circular, RHCP/LHCP, cross or co-polarization
› Ku-band	Waveguide horn array; with linear, electronically switchable cross and co-polarization

RF electronics	Integrated full ITU band Tx/Rx electronics on aperture
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Antenna control	Antenna Control Unit (ACU) on antenna positioner
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Height	11.30 in.; 28.70 cm
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Antenna power supply	ARINC-791 "KANDU" form-factor
› Input power	115 VAC, 360 to 800 Hz

Modem

Size	4 MCU ARINC 600 compatible
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Power source	115 VAC, 360 to 800 Hz
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Baseband interfaces

› LAN interface	4 x Gigabit Ethernet
› IRU interface	ARINC 429, RS-422, or Ethernet

Global Aero Terminal 5520

Ka-band Broadband Airborne Terminal

Antenna

Aperature	Ka-band dual-polarized RHCP/LHCP horn array
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RF electronics	Integrated full ITU band Tx/Rx electronics on aperature
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Antenna control	Integrated Antenna Control Unit (ACU) on antenna positioner
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Height	8.60 in.; 21.84 cm
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Antenna power supply	ARINC-791 "KANDU" form factor
› Input power	115 VAC, 360 to 800 Hz

Modem

Size	4 MCU ARINC 600 compatible
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Power source	115 VAC, 360 to 800 Hz
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Baseband interfaces

› LAN interface	4 x Gigabit Ethernet
› IRU interface	ARINC 429, RS-422, or Ethernet

Supported aircraft

Airbus corporate jets;
Boeing business jets

Global headquarters

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