



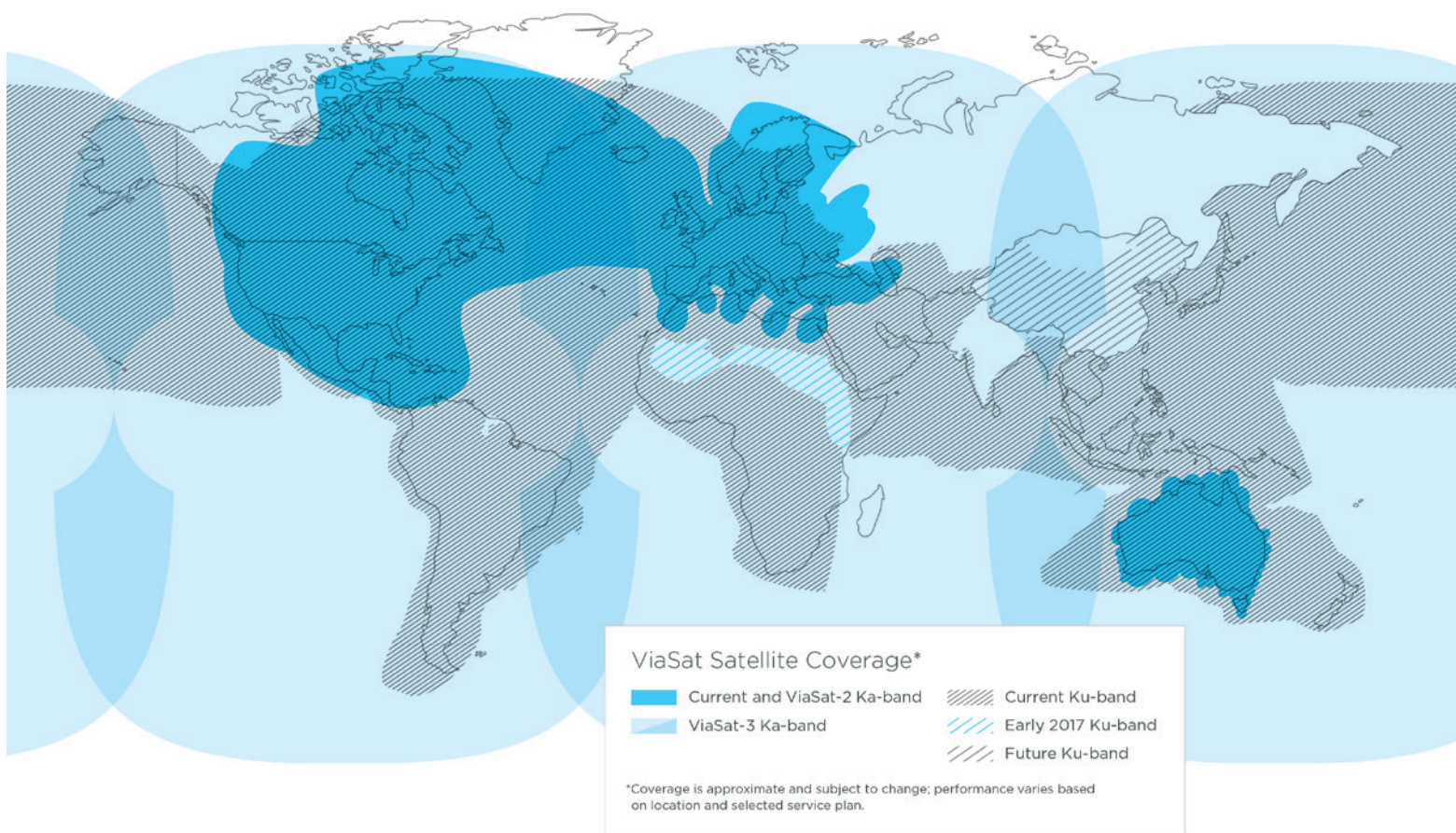
In-Flight Internet for VIP Aviation

SERVICE AND SYSTEM OVERVIEW

ViaSat

Unlock the Value of More

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 delivers an unmatched experience today and a path toward an even better online experience, ensuring VIP aircraft get the best service available where they fly.



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, driven by new and future applications.

ViaSat VIP internet service is designed to meet the high expectations of VIP passengers who expect the best. A large data threshold keeps everyone on board productive with video teleconferencing, voice calls, corporate VPN access, media streaming, and more. Only the ViaSat Ka-band satellite network has the bandwidth to ensure everyone on board your aircraft and every plane in your airspace gets the highest quality connectivity available today and into the future.

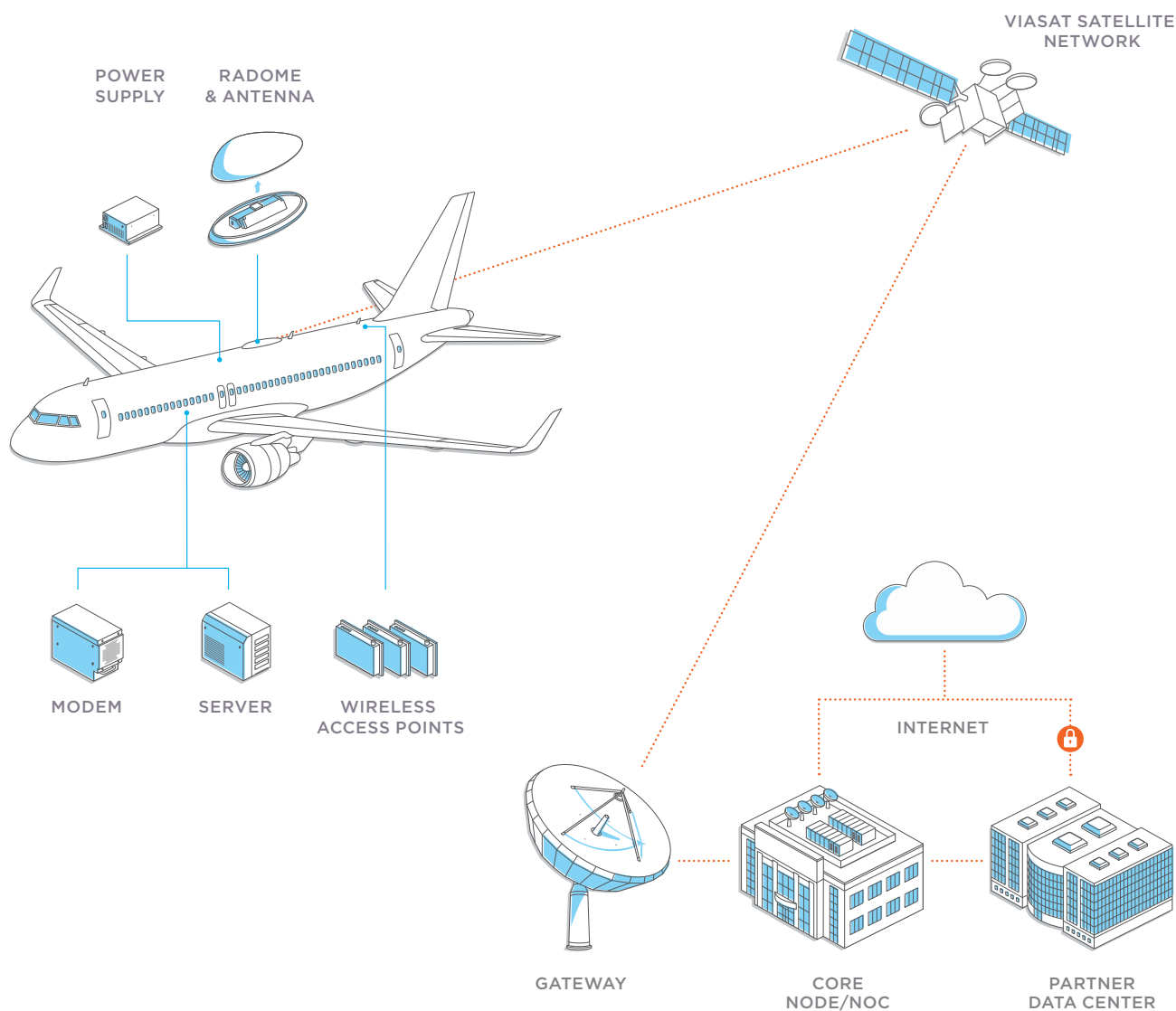
Our Ka-band leadership, large data allocations, and the best online experience make ViaSat the smarter choice for in-flight connectivity.

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.

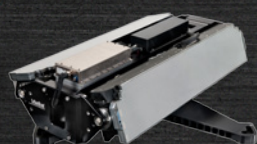
Data is transmitted between the plane and the ground infrastructure through the satellite. As the plane moves through the air, the system automatically performs hand overs between coverage areas.

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

▸ Ka-band

Suitable for most medium and long-range commercial airframes

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

Antenna Control

Antenna Control Unit (ACU) on antenna positioner

Height

11.30 in.; 28.70 cm

Antenna Power Supply

ARINC-791 "KANDU" form-factor

▸ Input Power

115 VAC, 360 to 800 Hz

MODEM

Size

4 MCU ARINC 600 compatible

Power Source

115 VAC, 360-800 Hz

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

Aperture

Ka-band dual-polarized RHCP/LHCP horn array

RF Electronics

Integrated full ITU band Tx/Rx electronics on aperture

Antenna Control

Integrated Antenna Control Unit (ACU) on antenna positioner

Height

8.60 in.; 21.84 cm

Antenna Power Supply

ARINC-791 "KANDU" form-factor

▸ Input Power

115 VAC, 360-800 Hz

MODEM

Size

4 MCU ARINC 600 compatible

Power Source

115 VAC, 360 to 800 Hz

Baseband Interfaces

▸ LAN Interface

4 x Gigabit Ethernet

▸ IRU Interface

ARINC 429, RS-422, or Ethernet

SUPPORTED AIRCRAFT Airbus Corporate Jets, Boeing Business Jets

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