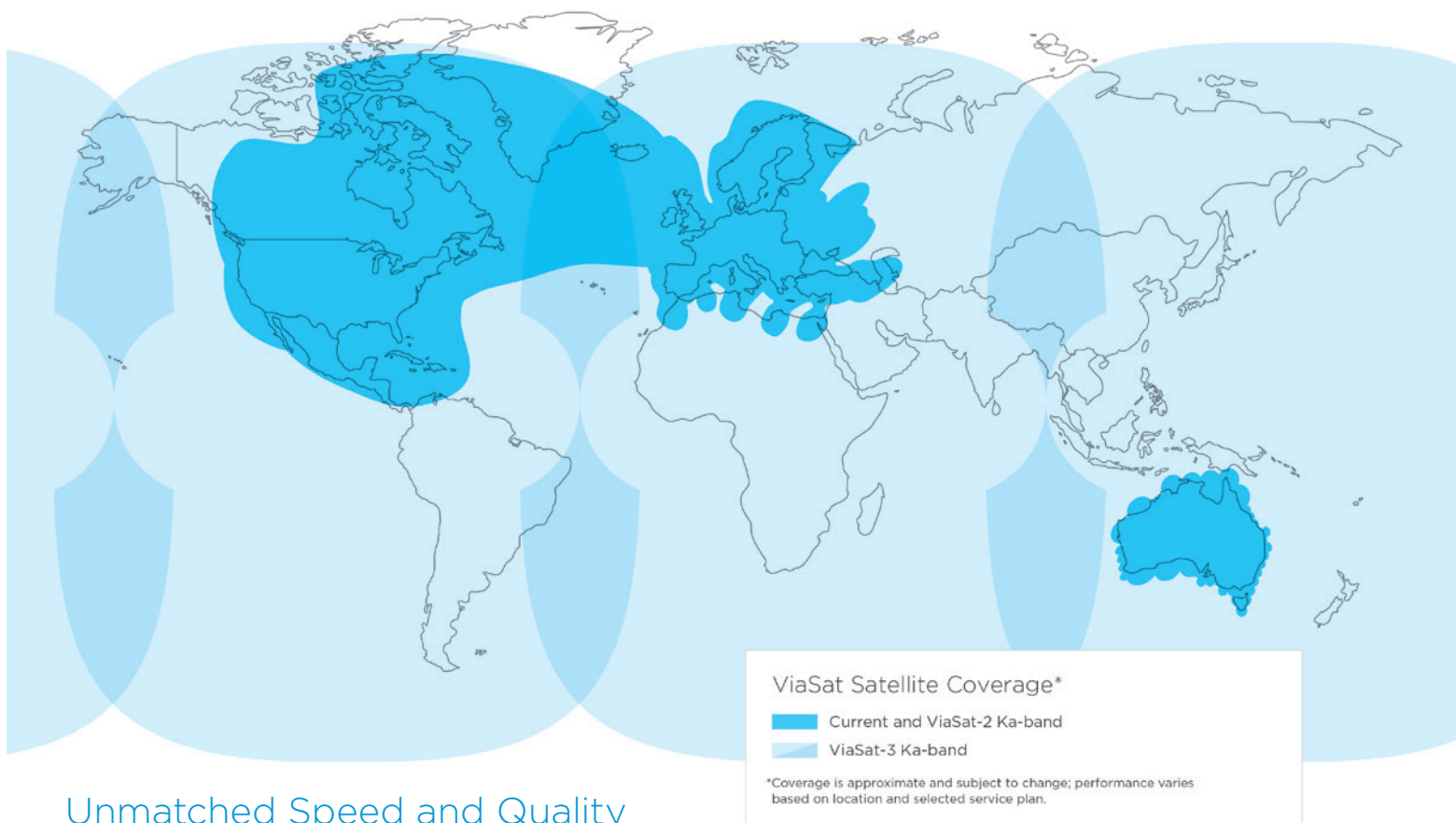


In-Flight Internet for Business Aviation

KA-BAND SERVICE AND SYSTEM OVERVIEW

Unlock the Value of More

ViaSat is bringing its internet service with the fastest speeds and best-in-market pricing to the business jet market. With more Ka-band capacity than any other in-flight Wi-Fi provider, ViaSat enables business and private jet users to unlock the value of more... by getting a more powerful performing in-flight internet service that delivers more speed, more performance, and more reliability—globally. ViaSat's system is built for tomorrow's internet, empowering users to do more on board.



Unmatched Speed and Quality

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 business aviation to meet the drastically increasing demand for data, driven by new applications. In addition to everyday web browsing, email, and corporate VPN access, passengers can conduct multisite video conferences plus stream music, HD IPTV, and videos. The service is available during all phases of flight including taxi, takeoff, and landing.

ViaSat already has the world's highest capacity satellite and is the only in-flight entertainment and connectivity provider with a path to build an ultra-high capacity Ka-band satellite network worldwide. ViaSat-2 will expand coverage across North and Central American, Caribbean, and trans-Atlantic routes and our roaming agreement with Eutelsat provides coverage in Europe. Beginning in 2019, the ViaSat-3 constellation, with its 3 Tbps total capacity, will deliver a faster, richer streaming media in-flight experience all around the globe.

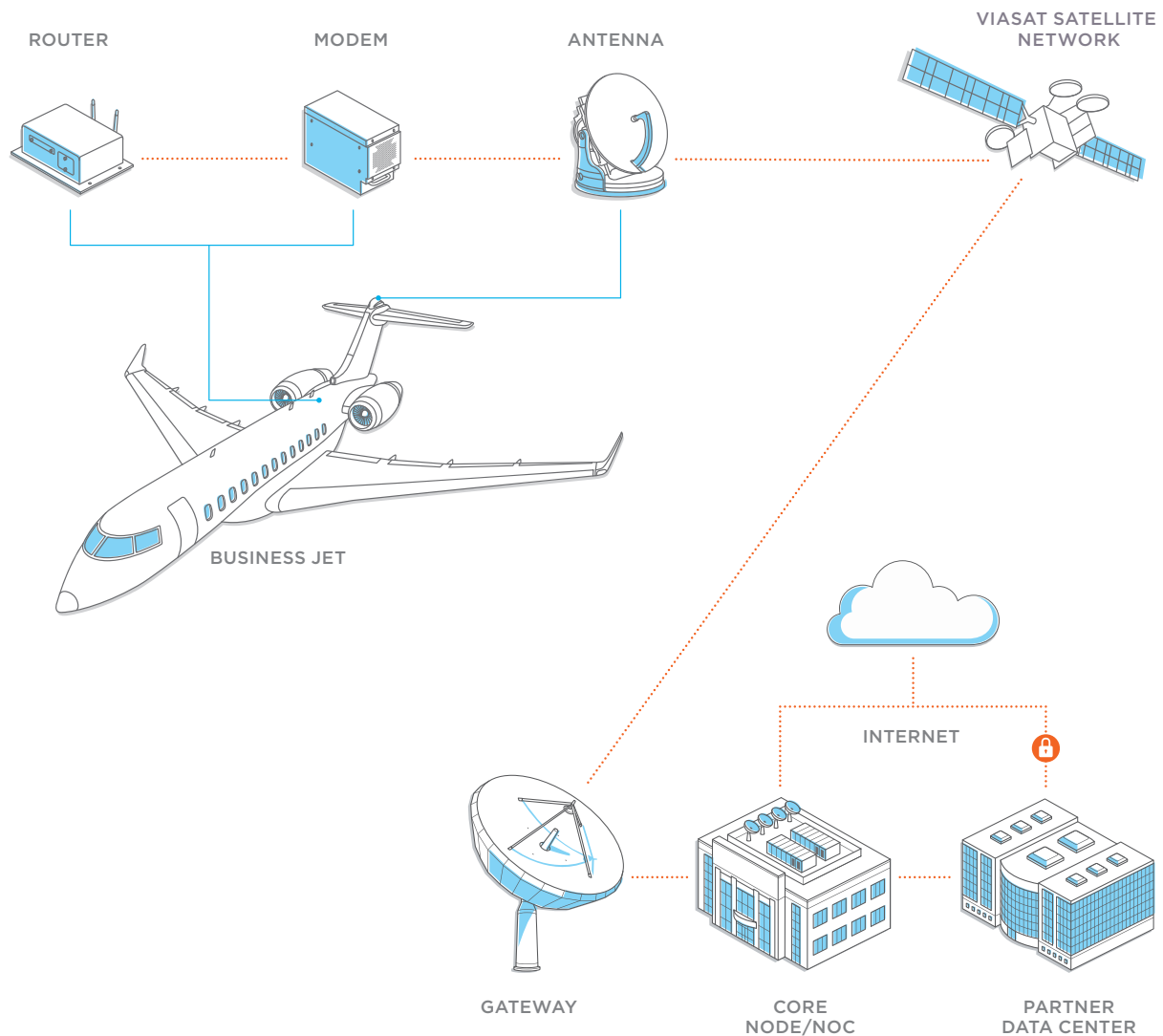
The best passenger experience and our Ka-band leadership make ViaSat the smarter choice for in-flight internet.

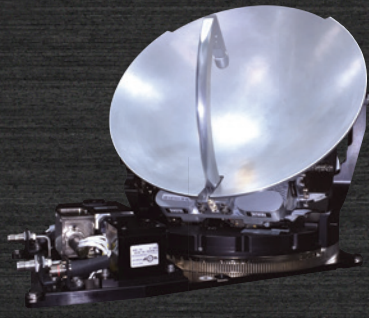
How It Works

The service uses ViaSat and partner high-capacity Ka-band satellites to transmit data to and from the aircraft. The aircraft has wireless access point(s) 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 station 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 Global Aero Terminal is an integral part in bringing high-speed internet service to large cabin and select long-range business jets. The terminal, comprised of a small antenna, modem, and antenna control unit, integrates into the aircraft's cabin network and communicates on our network of ViaSat and partner high-capacity Ka-band satellites.

Specifications

GLOBAL AERO TERMINAL 5510

OPERATING FREQUENCIES

Transmit	27.5 to 31.0 GHz
Receive	17.7 to 21.2 GHz

BASEBAND INTERFACES

Navigation	GE IRU or ARINC™ 429
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ENVIRONMENTAL & PHYSICAL CHARACTERISTICS

- Operating Temperature -55° C to +70° C
- Weight on Tail 26.4 lb; 12 kg
- Power Input +115 VAC input (ACU + Modem) 300 to 800 Hz, <150 W, or +28 VDC

SUPPORTED AIRCRAFT

Gulfstream	G IV, G V, G 450, G 500, G 550, G 600, G 650
Boeing	BBJ
Cessna	Citation X
Bombardier	Challenger 350, Challenger 600 series, Global Express, Global XRS, Global 5000 - 8000
Dassault	Falcon 900, Falcon 2000, Falcon 5X, Falcon 7X, Falcon 8X
Embraer	Legacy 450, Legacy 500

SERVICE PLANS

	ULTRA 30 ¹	ULTRA 40	ULTRA 60	ULTRA 100
PEAK SPEEDS TO/FROM AIRCRAFT	16/2 Mbps	16/2 Mbps	16/2 Mbps	16/2 Mbps
TYPICAL SPEEDS TO/FROM AIRCRAFT	10/1 Mbps	10/1 Mbps	10/1 Mbps	10/1 Mbps
COMMITTED INFO RATE (CIR) TO/FROM AIRCRAFT	4/7.5 Mbps	4/7.5 Mbps	4/7.5 Mbps	4/7.5 Mbps
DATA ALLOWANCE	30 GB	40 GB	60 GB	100 GB
WHAT YOU CAN DO WITH THIS MUCH DATA²	Send 300,000 emails or stream 40 hrs of SD video on Netflix®	Download 20,000 documents or stream 6,400 songs	Skype™ video chat for about 45 hrs or watch 20 hrs of HD video on Netflix®	Send 1,000,000 emails or Skype™ group video w/ 5 people for about 48 hrs

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¹ Limited time offer. ² All activities are estimates based on average data usage and behaviors; data consumption is dependant upon streaming rate, device, file size, web page size, quality of video and other factors. *Sources: <https://help.netflix.com/en/node/87>; <https://community.skype.com/t5/Windows-Archive/Video-Call-Data-Usage/td-p/706497>; <http://lowdown.carphonewarehouse.com/how-to/data-test-how-much-is-1gb/29283/>; and <https://www.broadbandchoices.co.uk/guides/broadband/guide-to-internet-data-usage>