



# In-flight connectivity for business aviation

Ka-band solution and system overview



# Connect without compromise. Even at 40,000 feet.

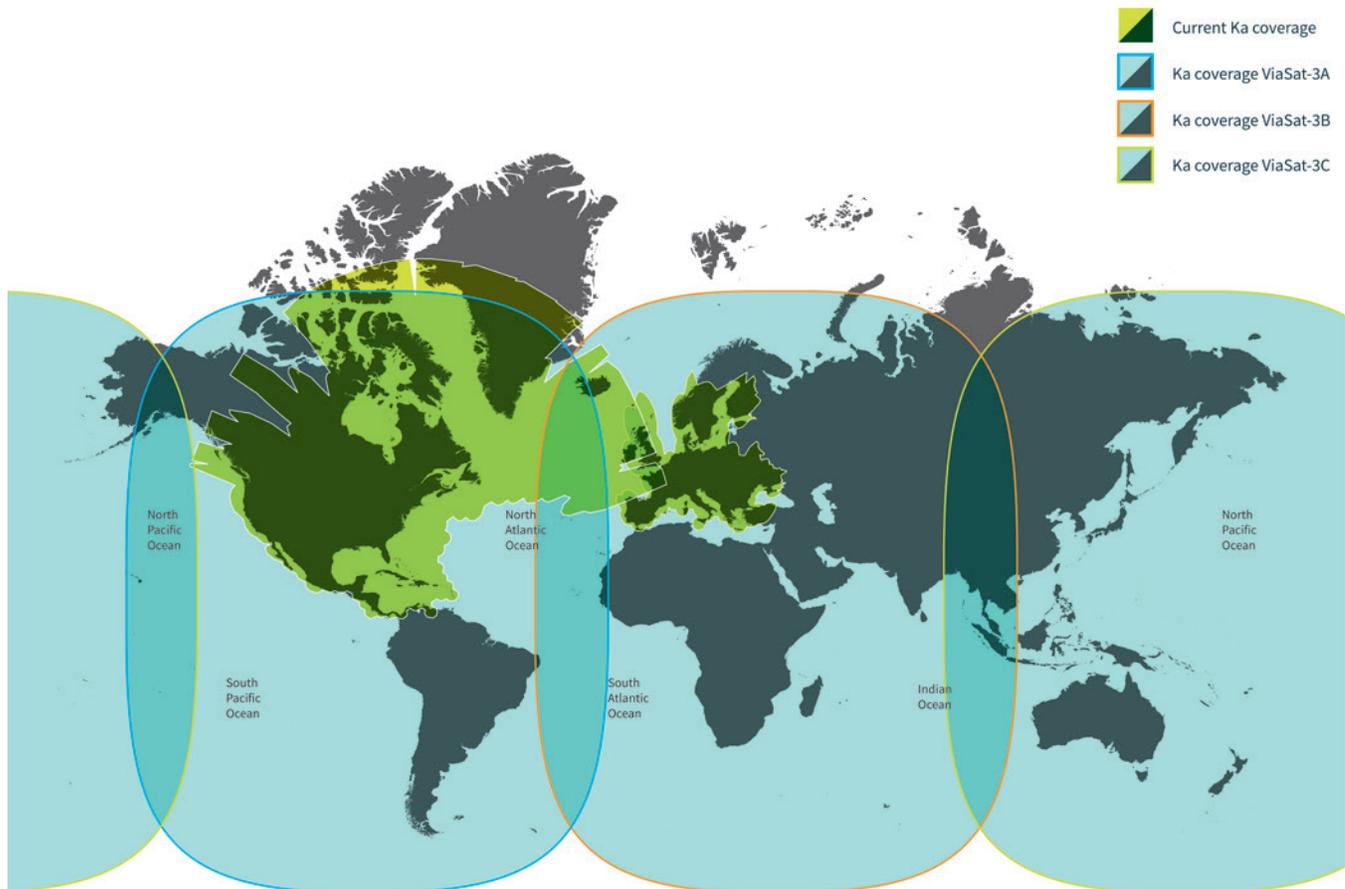
Viasat Ka-band's powerful capacity is the engine behind unparalleled speeds.

Viasat is bringing its internet service with unparalleled 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 stay connected to what's important. Viasat provides a powerful performing in-flight internet service so that you can enjoy web browsing, email, business applications, video conference, and streaming. At Viasat, we know that business

and life don't stop in the air. Neither should your high-speed internet.

### Stay connected. Globally.

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



\*Future coverage is an expansion of current Ka coverage. Coverage is approximate and subject to change.

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, video, and TV. The service is available during all phases of flight including taxi, takeoff, and landing.

**The Viasat difference**

Viasat 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 Ka-band solution offers:

**Fast speeds:** Do more with speeds of up to 16 Mbps during all phases of flight. Stream, conference and surf — from takeoff to touchdown.

**Forward-compatible:** Protect your investment. Viasat’s Ka-band equipment will work with our enhanced satellite technology of tomorrow\* allowing you to accommodate the increased demand for speed, capacity and performance.

Viasat is working to protect your investment by ensuring that the Ka-band equipment installed today will work with tomorrow’s advanced technology.

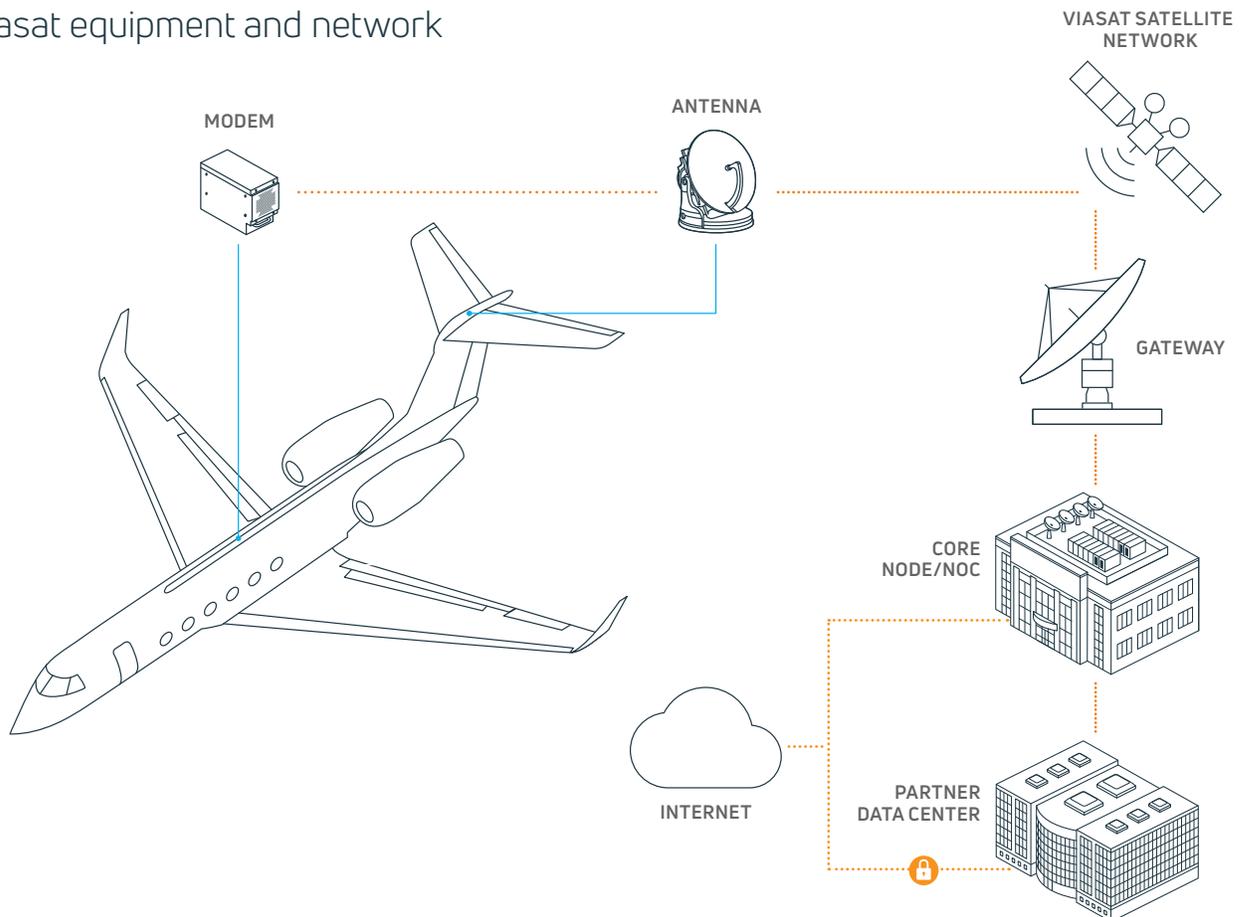
**Unrivaled capacity:** Take advantage of global bandwidth and speed powered by the world’s highest capacity satellite network. Capacity is the engine behind high-speed internet.

**Streaming live TV:** Enjoy streaming high definition live to TV to cabin monitors and to passengers’ own devices. Streaming TV does not impact your data plan allocation.

**How it works**

The service uses Viasat and partner high-capacity Ka-band satellites to transmit data to and from the aircraft. Passengers connect their devices to the aircraft network similar to Wi-Fi connections on the ground making it a simple and continuous experience. 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



\*includes Ka-band satellites launched through 2023

# Specifications

## Global aero terminal 5510

### Operating frequencies

<b>Transmit</b>	27.5 to 30.0 GHz
<b>Receive</b>	17.7 to 21.2 GHz

### Baseband Interfaces

<b>Navigation</b>	ARINC™ 429 input
<b>Data</b>	10/100/1000BASE-T Ethernet

### Environmental & physical characteristics

<b>Operating temperature</b>	-55° C to +70° C
<b>Total weight of shipset</b>	51.4 lb; 23.3 kg
<b>Power input (AC or DC options)</b>	115 VAC, 400 Hz or 28 VDC

### Supported and supportable aircraft

<b>Gulfstream</b>	GIV, GV, G280, G450, G500, G550, G600, G650
<b>Boeing</b>	BBJ
<b>Cessna</b>	Citation X
<b>Bombardier</b>	Challenger 350, Challenger 600 series, Global Express, Global XRS, Global 5000 – 8000
<b>Dassault</b>	Falcon 900, Falcon 2000, Falcon 7X, Falcon 8X
<b>Embraer</b>	Legacy 450, Legacy 500, Praetor 500, Praetor 600

## Ka-band service plans

	ULTRA 30	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 can you do with Ka-band data <sup>1</sup>	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

<sup>1</sup> 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>

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