

# Dual-band business jet connectivity solution

Service and system overview



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

Viasat's Dual-band solution is bringing the most powerful internet services to the business jet market.

Viasat's Dual-band solution leverages both Ka-band and Ku-band networks to keep business jet customers connected in flight. Now, passengers can enjoy a high-speed internet experience for all they do online, from emailing to downloading files to streaming, wherever they go in the world.

# **Uninterrupted connectivity**

Viasat's Dual-band solution is intelligently designed to provide the fastest speeds available, globally. The high-capacity dual-band solution automatically navigates between Ka- and Ku-band networks bringing the best internet experience to everyone on board. In addition to web browsing, email, and corporate VPN¹ access, passengers can conduct multi-site video conferences plus stream music, internet videos and live TV.

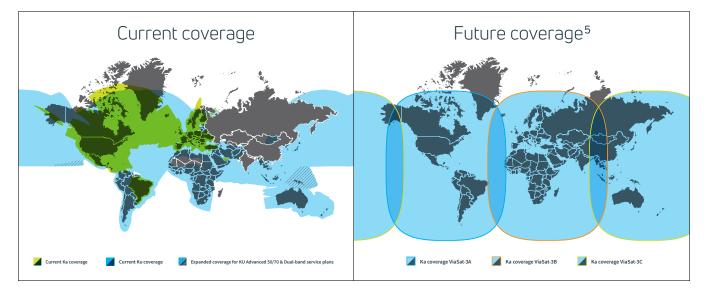
Dual-band service provides speeds typically greater than 30 Mbps<sup>2</sup>, with peaks exceeding 90 Mbps, while in the Ka-band network, and up to 10 Mbps in the Ku-band network. The

intelligent system will automatically default to Ka-band and leverage the Ku-band back-up service when outside of the growing Ka-band footprint.

Dual-band connectivity ensures internet is available during all phases of flight and ground operations<sup>4</sup> including taxi, takeoff, and landing, so passengers can conference, surf, stream just like they would at home or in the office.

# High speeds, highest capacity

Viasat already has the world's highest capacity satellites, including ViaSat-1 and ViaSat-2, which provide high-speed internet access to millions of users and devices across North and Central America, the Caribbean, and North Atlantic flight routes. The ViaSat-3 global satellite constellation is expected to offer 3 terabits per second total capacity for an even faster streaming media in-flight experience to passengers traveling anywhere in the world. And our global Ku-band service ensures you're always connected. Dual-band — the best of both worlds and only from Viasat.



#### The Viasat difference

Viasat's Dual-band solution offers:

**Faster speeds:** Leverage Ka-band's no speed limits to reach in-flight internet speeds of greater than 90 Mbps. Stream, conference and surf — from takeoff to touchdown.

**Forward compatibility:** Protect your investment. Viasat's Ka-band equipment will work with our enhanced satellite technology of tomorrow<sup>5</sup> allowing you to accommodate the increased demand for speed, capacity and performance.

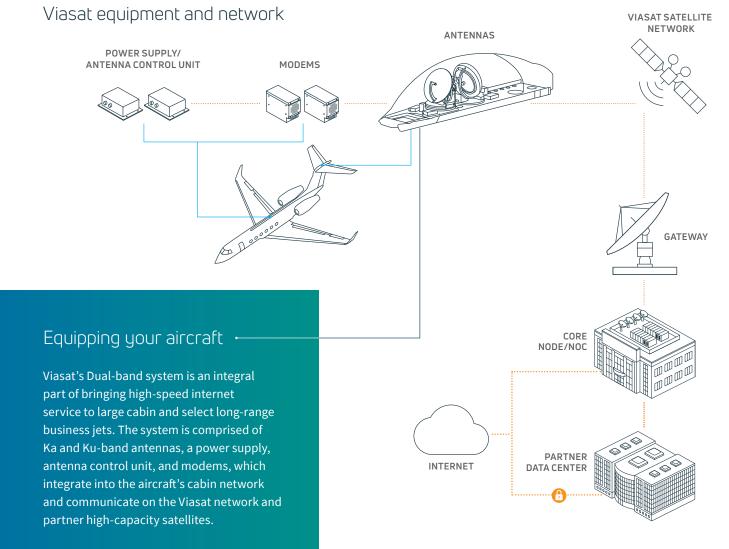
**Unrivaled capacity:** Take advantage of global bandwidth and speed powered by the world's highest capacity satellite network. Capacity is the engine behind high-speed internet.

**Streaming live TV:** Enjoy streaming live in high-definition to cabin TV monitors or passengers' own devices.

#### **How it works**

Viasat's Dual-band solution is an intelligently designed system that provides the best satellite network for internet connectivity. The service seamlessly shifts connectivity between Ka- and Ku-band networks as needed, creating a continuous high-speed internet experience for passengers.

Once on board, passengers connect their devices to the aircraft's cabin network similar to how they'd connect to Wi-Fi on the ground. Data is transmitted between the Viasat dual-band system on the plane to the satellite ground station. As the plane moves through the air, the system automatically performs handovers between Ka-and Ku-band coverage areas.



# Specifications

# **Dual-band solution**

# **Operating frequencies**

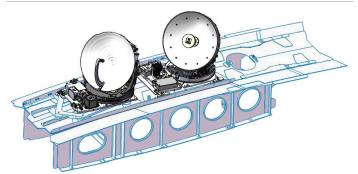
Transmit	Ka: 27.5 to 30.0 GHz
	Ku: 14.0 to 14.5 GHz
Receive	Ka: 17.7 to 21.2 GHz
	Ku: 11.55 to 12.75 GHz

#### **Environmental & physical characteristics**

Operating temperature	-55°C to +70°C
Size	Ka: 12.0" x 12.9" Ku: 11.9" x 12.9"
Weight, total system	88.5 lb; 40.1 kg
Power input (AC or DC options)	115 VAC, 400 Hz or 28 VDC

## Supported and supportable aircraft

Bombardier	Global Express, Global XRS, Global 5000, Global 6000
Gulfstream	GIV, GV, G450 <sup>7</sup> , G550, G650/650ER



#### **Dual-band aircraft speeds**

- > To aircraft when using Ka: No maximum limit1; Typical >30 Mbps
- > From aircraft when using Ka: Up to to 2 Mbps

¹ VPN performance varies. Speak to a Viasat Business Aviation expert for VPN recommendations. ² "Typical" speeds are the speeds a terminal should usually experience under normal network and environmental conditions; speeds are not guaranteed and will vary. ³Removing the speed limits' means that there is no cap set on the speed delivered to a terminal. Speeds may still be limited by terminal equipment capabilities, network and environmental conditions, and other factors. ⁴Subject to country regulations. ⁵Future coverage is an expansion of current Ka-band and Ku-band coverage. Coverage is approximate and subject to change. ⁶Includes Ka-band satellites launched through 2022. ⁷STC expected in 2022.

## **Global headquarters**

6155 El Camino Real, Carlsbad, CA 92009-1699, USA

Viasat: ••

WEB viasat.com/business-aviation

TEL 888 842 7281 (US toll free) +1 760 476 4755 EMAIL business-aviation@viasat.com

Copyright © 2022 Viasat, Inc. All rights reserved. Viasat and the Viasat logo are registered trademarks of Viasat, Inc. All other product or company names mentioned are used for identification purposes only and may be trademarks of their respective owners. Specifications and product availability are subject to change without notice. Speeds are "up to," are not guaranteed and will vary. 1723172-221005-002