

Viasat Select Router

Redefining the in-flight connectivity experience

The Viasat Select Router, coupled with Viasat's latest generation satellite terminal, delivers a fully managed internet connectivity network inside the cabin that promises to deliver maximum speed and capabilities from Viasat's high-capacity satellite network.

Multi-link connections

The Viasat Select Router ("VSR") is a fully featured cabin connectivity management device that integrates the Viasat connectivity service with other available cabin connectivity on the aircraft. User traffic is routed automatically over the best available network and in the event of a service disruption, an alternate service is automatically selected to ensure continuous internet access.

Every VSR is equipped with an integral cellular modem that enables near global 4G LTE data service while the aircraft is on the ground. The data service can be used by passengers or crew, and is available to Viasat's technical support team for remote access to assist with equipment configuration, software updates, and other troubleshooting support, while the aircraft remains in the hangar.

The router incorporates an 802.11ac Wi-Fi access point for easy in-cabin wireless connectivity for passengers, crew and ground operations. Additional antennas can be added to ensure optimal signal strength inside the cabin as necessary.

Fully integrated tools and apps

The VSR provides a rich set of service management features including full visibility of connected devices and rule-based filtering to manage traffic to and from devices to ensure the best seamless service experience for the passenger. The router includes a comprehensive graphic user interface for authorized users to access real-time data plots, performance dashboards, and fault logs to assist with fault isolation. Real-time service and passenger usage metrics are also provided both on-wing and on the ground to maximize visibility to crew and other support personnel. To assist the crew while in flight, the router is paired with Viasat's Crew Central for BizAv, an app available for both Apple and Android devices. To assist the flight department personnel on the ground, data from the VSR is integrated with Viasat's Insights for BizAv portal.



Key features at a glance

- › Smart, fully automated, multi-link cabin connectivity management
- › Integral 4G/LTE cellular data modem for quick and easy remote support
- › Small form factor, flange mounted, fan-less design for maximum flexibility and ease of installation
- › Built-in monitoring and diagnostics
- › Front panel I/O includes dual mini-SIM slot, USB, serial, Ethernet and DisplayPort allowing for easy maintenance access

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Security

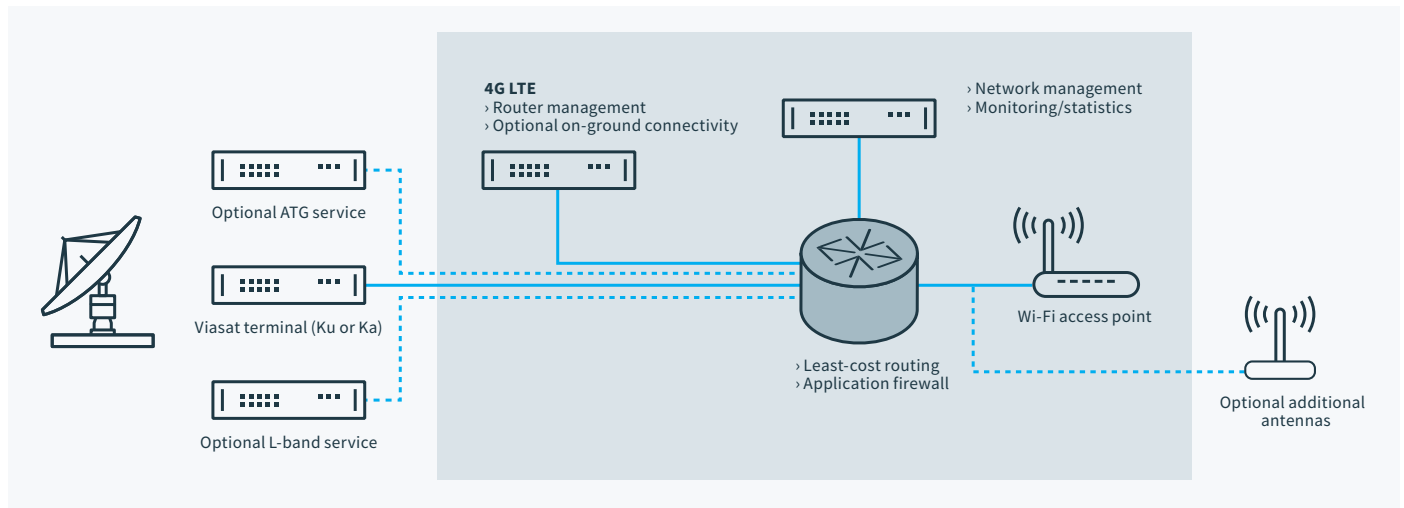
The VSR can be configured with an integral firewall and Transport Layer Security to ensure secure data transfer over the Viasat network. The router is designed to incorporate future intrusion detection and prevention software to further enhance cabin and connectivity service resilience to cyber attacks.

Delivered on a proven hardware platform

The Viasat Select Router deploys a mature feature-rich suite of software-based functions, on an equally mature industry proven Kontron AF1600 high reliability hardware platform. In addition to the internal L2-managed Gigabit ethernet switch, the router supports multiple ethernet connections, discrete I/Os, and ARINC 429 data.

Technical overview

The Viasat Select Router is a Line Replaceable Unit (LRU) and can be integrated with other connectivity services if available on the aircraft.



SPECIFICATIONS

Size	1.75 in. H × 7.8 in. W × 5.5 in. D	Storage	1 TB (OS and applications)
Weight	3.9 lbs	Ethernet Ports	<ul style="list-style-type: none">> 5 x 10/100/1000 bps Ethernet Ports (Switched)> 1 x 10/100/1000 bps Ethernet Ports (Direct)> 1 x 10/100/1000 bps Ethernet Ports (Front Panel)
Voltage	28VDC with 200ms Hold-up	ARINC 429	2x Rx Channels / 1x Tx Channel
Power	20W(typical); 30W (max)	Cellular Modem	Integrated Global coverage 4G/LTE Advanced modem; 2x mini SIMs; 2x RF QMA connections
Environment	Qualified to DO-160G	Wi-Fi	802.11 ac/abgn; 3x RF QMA connections
Processor	Intel E3845 4 Core processor, 1.5GHz		

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