

ViaSat-2 fixed broadband terminals

The ViaSat-2 fixed broadband terminal delivers higher speeds and wide-reaching Wi-Fi over previous Viasat terminals. The ViaSat-2 satellite system also expands the broadband services across North America, Central America, the Caribbean and a portion of northern South America. With millions of terminals shipped and an expanding market, Viasat has proven market leadership in Ka- band performance, cost, and capacity for broadband services.

High-performance, cost-efficient internet access

ViaSat-2 is the world's highest capacity Ka-band satellite and delivers high-speed internet services using these terminals that include an attractive indoor unit (IDU) and an unobtrusive outdoor unit (ODU) to enable fast web browsing, video streaming, file sharing, and bandwidth-intensive internet applications.

The fixed broadband terminal for ViaSat-2 systems offers several models differing primarily in the option of built-in Wi-Fi and Voice over IP (VoIP). The new terminal builds on the success of the ViaSat-1 fixed terminals, offering higher data speeds. The higher end model has integrated 802.11 ac Wi-Fi in addition to legacy 802.11 b/g/n Wi-Fi, consumer and SME router capabilities, and built-in VoIP adapter (RJ-11 interface). These terminals are capable of delivering downstream rates of up to 100 Mbps and upstream rates of up to 20 Mbps. The network operator can define varying classes of service using provisioning tools to configure the terminal for specific downstream and upstream speeds.

This terminal includes an embedded acceleration client for a faster, more responsive user experience, and network integration via a standard Ethernet connection. The ODU includes a satellite reflector, feed, transmit and receive electronics, a mounting kit, and is available with either pole-mount or universal wall mount.

Incorporating advanced new technologies, the highly integrated terminals set a new standard for performance and reliability. High-volume production ensures flexible product delivery schedules and the lowest possible volume pricing.

Easy Installation and Operation

Designed for quick and reliable professional installation, this terminal is part of a complete system that also includes an innovative Satellite Access Node (SAN) and Network Management Systems (NMS) that facilitate subscriber management with features such as automated service provisioning, diagnostics, and customer support.



Terminal at-a-glance

- > Always-on high-speed connectivity
- Sophisticated quality of service (QoS)
- Built-in Wi-Fi
- Built-in TCP and web acceleration
- Built-in security against theft-ofservice and theft-of-subscriber
- Gigabit Ethernet CPE interface
- Web GUI local management and TR-069 based remote management and control
- Adaptive Coding and Modulation (ACM) on the forward link optimized network capacity
- Automatic power control and ACM on the return link—high availability during fades

Applications

- High-speed internet access
- › Video and Voice-over-IP
- High-speed file transfer
- Email
- > Web browsing
- > Streaming video
- Internet of Things



ViaSat-2 fixed broadband terminals

Indoor unit (IDU) specifications

USER SPEEDS

Forward channel Configurable up to 100 Mbps accelerated TCP **Return channel** Configurable up to 20 Mbps accelerated TCP

MANAGEMENT

Web GUI local management and TR-069 and SNMP-based remote management and control

NETWORKING

> Transparent TCP and HTTP acceleration **IP internetworking**

POWER SUPPLY

> Packet classification and filtering > Per-flow queuing

100 to 240 VAC; 50 to 60 Hz

INDOOR ENVIRONMENT

Operational	0° to +40° C
Storage	–35° to +65° C
Humidity	0 to 95% (non-condensing)
Altitude	3000 m
Shock and vibration	Per ISTA, July 2000, procedure 3A
REGULATORY	
Safety	cULus, NOM
EMC	FCC 47 CFR Part 15 Class B, ICES-003 Class B
RoHS	Compliant to RoHS directive 2011/65/EU
REACH	Compliant to REACH directive
Wi-Fi	FCC 47 CFR Part 15.247/15.407, RSS-102/247/GEN
INTERFACES	
Ethernet (Qty 2)	IEEE 802.3, 10/100/1000 BASE-T, RJ-45 connector
Wi-Fi	802.11 ac/b/g/n 3x3 Dual Band Dual Concurrent MU-MIMO Wave 2
VoIP	RJ-11
Expansion (Qty 2)	USB 3.0, type A connector, for charging & factory use

Outdoor unit (ODU) specifications

	o o o posiciona de la composiciona de la compos	
POLARIZATION		
Standard	Circular, cross-polarized, with remote switching	
Mounting	Available pole mount or universal mount	
FORWARD CHANNEL		
Input frequency	17.7 to 20.2 GHz	
Nominal G/T	18.5 dB/K	
Symbol rate	56 to 464 MSym/sec	
RETURN CHANNEL		
Output frequency	27.5 to 30.0 GHz	
Symbol rate	5, 10, 20, 40, 80, 160, 320 MSym/sec	
OUTDOOR ENVIRONMENT		
Power	40-50VDC / 2A max / <75W Supplied by IDU on IFL coax	
Operational	-40° to +47°C	
Non-operational	–50° to +85°C	
Humidity	0 to 100% (condensing)	
Rain	<100 mm/h	
Wind	45 mph; 72 km/h	
REGULATORY		
Safety	ULus, CE, CB scheme	
EMC	FCC 47 CFR 15B, 25.138, 25.202, ETSI 301 459, CE	
RoHS	Compliant to RoHS directive 2011/65/EU	
REACH	Compliant to REACH directive	
PHYSICAL CHARACTERISTICS		
Reflector size	77 × 72 cm	
Weight	30 lb; 13.6 kg (with transceiver & universal mount)	
INTER-FACILITY LINK (IFL) CABLE		
Туре	RG-6, 75 Ohm SCC	
Connector	F (male)	
Length (max.)	50 m	

Ordering information

Viasat Wi-Fi Gateway IDU	RG1100
Viasat Gateway IDU (no Wi-Fi)	RG1000
Standard Antenna	1182925
ODU	PAB2000

Global headquarters

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

Sales

TEL	888 842 7281 (US Toll Free)
EMAIL	insidesales@viasat.com



Copyright @ 2020 Viasat, Inc. All rights reserved. Viasat and the Viasat logo are 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. 1249915-200930-VS2-003