

75 cm Vehicle Mounted Terminal

Auto-Acquire High-Speed Satellite Internet Terminal



The ViaSat 75 cm Vehicle Mounted Terminal delivers affordable high-speed Internet access via satellite for workers at temporary or out-of-office field locations. The vehicle-mounted terminal is based on ViaSat's successful Ka-band technology and leverages ViaSat-1, the world's highest capacity satellite, already the product of choice for Ka-band direct-to-home Internet service, broadcasters, first responders and the DOD. With more than a million terminals shipped, the ViaSat Ka-band network has a record of proven reliability, scalability and performance.

HIGH-PERFORMANCE, COST-EFFECTIVE INTERNET ACCESS ON THE GO

The ViaSat 75 cm Vehicle Mounted Terminal is designed for users requiring high throughput connectivity in a transportable package. Emergency response, law enforcement, remote medical and peace workers, and field reporters can now access high-speed Internet with the convenience of "near-instant" connectivity, especially in locations where no other communications infrastructure is available. The form factor is optimized for mobile requirements. The complete terminal can be easily integrated into an automobile or small truck.

The terminal enables fast web browsing and supports full file transfers, VPN connections, and bandwidth-intensive Internet applications, two-way workflow as well as HD video streaming. Based on the service package specific to customers' needs the terminal is capable of delivering downstream rates up to 50 Mbps and upstream rates up to 20 Mbps. The modem delivers a faster, more responsive user experience, with an embedded acceleration client that works with acceleration servers in the network. With a customer supplied router, the terminal can support multiple user IP devices, such as PCs, cameras, WiFi access points, VoIP phones as well as other user equipment. The antenna comprises a stowable satellite reflector and feed, and an integrated transmitter/receiver.

The Vehicle Mounted Terminal is designed for simple and reliable user operation, typically in under than 5 minutes by untrained personnel. It is optimized to work with the complete ViaSat Ka-band system to facilitate high quality subscriber management with features such as automated service provisioning, diagnostics, and customer support.

VIASAT 75 CM VEHICLE MOUNTED TERMINAL AT-A-GLANCE

- » Vehicle-mounted quick deploy high-speed connectivity
- » Utilizes affordable, high-capacity Ka-band satellite bandwidth for high speed web access
- » Supports high-speed live true HD video uplinks
- » Enables two-way communication for added workflow capability for SNG field crews
- » Quick set-up using single-push-button-antenna pointing for rapid satellite acquisition
- » Web GUI local management

APPLICATIONS

- » Emergency response
- » Disaster relief
- » Tactical military operations
- » Network access for real-time data acquisition in remote areas
- » Satellite newsgathering

SPECIFICATIONS

FORWARD CHANNEL (SATELLITE TO TERMINAL)

Modulation/Coding

- » **16-APSK Rate** 2/3, 3/4, 4/5, 5/6, 8/9
- » **8PSK Rate** 3/5, 2/3, 3/4, 5/6
- » **QPSK Rate** 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6
- » Adaptive Coding & Modulation
- Symbol Rate** Up to 50 MSym/s

RETURN CHANNEL (TERMINAL TO SATELLITE)

Modulation/Coding

- » **8PSK Rate** 7/12, 2/3, 3/4
- » **QPSK Rate** 3/8, 1/2, 5/8, 3/4
- » **BPSK Rate** 1/2
- » Automatic power control and rate adaptation
- Symbol Rate** 625, 1250, 2500, 5000, 10000 and 20000 kSym/s

RF Spectrum FCC 47CFR25, ETSI EN 301 459

USER SPEEDS

- Forward Channel** Service provider configurable up to 50 Mbits/s
- Return Channel** Service provider configurable up to 20 Mbits/s
- Actual User Speed** Dependent on purchased service plan

ANTENNA

- Input Frequency** 18.3 to 20.2 GHz
- Output Frequency** 28.1 to 30.0 GHz
- Polarization** Circular, with remote switching
- Mounting**
 - » **Antenna** Vehicle roof-top, motorized stowable for travel
 - » **Modem** 19 in rack mounted, 1RU
- Nominal EIRP** 48.4 dBW
- Nominal G/T** 17.5 dB/K

ENVIRONMENTAL

Operational Temperature

- » **Indoor** -10° to +40° C
- » **Roof-top** -30° to +55 C

Survival Temperature -40° to +65° C

Wind

- » Operational 30 mph steady, with gusts to 45 mph

» Survival

- **Deployed Antenna** 100 mph
- **Stowed Antenna** 140 mph

Additional environmental specification limits are available for humidity, salt fog, ice/freezing rain and solar loading.

POWER

Vehicle AC 100 to 240 VAC, 50 to 60 Hz

MECHANICAL

Weight

- » **Antenna** <115 lb
- » **Modem/Antenna Controller** <25 lb
- Stowed Antenna Height** <18.5 in

PHYSICAL CHARACTERISTICS

- Mounting Plate (LxW)** 131 x 45 cm; 51.6 x 17.7 in
- Stowed Dish Ext. Dims (LxWxH)** 145 x 76 x 29 cm; 57 x 29.9 x 11.5 in
- Deployed Height** 122 cm; 48 in
- Maximum Weight** 52 kg; 115 lb

POINTING

- » Automatic, single-button initiated
- » Typical Acquisition <5 min; 90% of time, cold start, with calibrated compass

- Azimuth** Full 360° in overlapping 200° sectors
- Elevation** 0 to 90°
- Elevation Deploy Speed** Variable 10°/sec typical
- Azimuth Deploy Speed** Variable 5°/sec typical
- Peaking Speed** 0.1°/sec

NETWORKING

- » Transparent TCP and HTTP acceleration
- » Packet classification and filtering

MANAGEMENT

- Modem** Web GUI local management
- Display** Pointing and status indication
- LEDs** Quick terminal status

ORDERING INFORMATION

Antenna Manufacturer C-Com Satellite Systems, Inc.



CONTACT

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