



The SurfBeam 2 Pro Portable Terminal delivers affordable high-speed Internet access via satellite for workers at temporary sites. The rugged, lightweight terminal is based on ViaSat SurfBeam® 2 technology and builds on the success that made ViaSat SurfBeam the product of choice for WildBlue, the world leader in Ka-band direct-to-home Internet service. With more than 800,000 terminals shipped, the SurfBeam network has a record of proven reliability, scalability and performance.

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

The ViaSat SurfBeam 2 Pro Portable Terminal is designed for users requiring high throughput connectivity in a compact and portable package. Field reporters, remote medical and peace workers, and emergency responders benefit from high-speed Internet with the convenience of “near-instant” connectivity even in locations where no other communications infrastructure is available. The form factor is ruggedized to support operation in harsh conditions and supports multiple configuration options to suit user needs. The complete terminal, including the satellite terminal and antenna, can be packed into a single case for transit and is lightweight enough to be carried by a single user.

The unit enables fast web browsing and supports video streaming, file transfers, VPN connections, and bandwidth-intensive Internet applications. It is capable of delivering downstream rates up to 50 Mbps and upstream rates up to 20 Mbps, and provisioning tools enable the network operator to create different classes of service with configurable downstream and upstream rates. The modem has an embedded acceleration client that works with acceleration servers in the gateway to provide a faster, more responsive user experience. With four standard Ethernet connections, the terminal natively supports up to 4 IP devices, such as PCs, cameras, and routers as well as other user equipment. The antenna is available in 2 sizes (75cm and 50cm) and includes a collapsible satellite reflector and feed, transmit and receive electronics, and can be deployed with the modem or in a standalone configuration.

EASY INSTALLATION AND OPERATION

The compact SurfBeam 2 Pro Portable Terminal is designed for a quick and reliable user installation in less than 10 minutes by personnel with minimal satellite training. It is part of a complete SurfBeam 2 system that also includes an innovative Satellite Modem Termination System (SMTS) gateway and Network Management Systems (NMS) that facilitate subscriber management with features such as automated service provisioning, diagnostics, and customer support.

TERMINAL AT-A-GLANCE

- » Easily portable high-speed connectivity
- » Ruggedized for operation in harsh environments
- » Utilizes affordable, high-capacity Ka-band satellite bandwidth
- » Supports high-speed live video uplinks
- » Quick set-up using built-in antenna pointing aid for rapid satellite acquisition
- » Integrated 4-port IP router
- » Web GUI local management and SNMP-based remote management and control

APPLICATIONS

- » Always On—rapid Internet access
- » Satellite news gathering
- » Emergency response and disaster relief
- » Tactical military operations
- » Oil and gas exploration



SPECIFICATIONS

FORWARD CHANNEL

Modulation/Coding

- » 16-APSK Rate 2/3, 3/4, 4/5, 5/6, 8/9
- » 8-PSK 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** 10 to 52 MSym/s

RETURN CHANNEL

Modulation/Coding

- » 8-PSK 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 & 20000 kSym/s

ANTENNA

- Input Frequency** 18.3 to 20.2 GHz
- Output Frequency** 28.1 to 30.0 GHz
- Polarization** Circular, with remote switching option
- Mounting** As part of terminal or deployed independently
- Cable Length (max)** 50 m
- 75 cm Reflector**
 - » **Nominal EIRP** 48.7 dBW
 - » **Nominal G/T** 17.5 dB/K
- 50 cm Reflector**
 - » **Nominal EIRP** 45.2 dBW
 - » **Nominal G/T** 14.0 dB/K

ENVIRONMENTAL

- Operational** -10° to +50° C (antenna -40° to +65° C)
- Storage** -35° to +65° C
- Altitude** 3000 m
- Wind** 45 km/h
- Shock and Vibration** Per ISTA, July 2000, Procedure 1A
- Ingress Protection** IP 66

POWER

- AC** AC Power Supply 100 to 240 VAC; 50 to 60 Hz
- DC** 12 to 32 VDC
- Battery** Supports a variety of battery options
- Power Consumption** 80W / Typical Usage

PACKAGING AND WEIGHT

Packaging Options & Dimensions

- » 1 case with linear size less than 62 in; 158 cm (airline checkable)
- » 2 cases each with size less than 45 in; 115 cm (airline carry-on)

- Terminal Weight** Approximately 30 lb; 13.6 kg

INTERFACES

- Ethernet** 4x10/100 BaseT, RJ-45
- Power Input** 2xD38999
- Power Output** 1xD38999
- Antenna** F Connector (male)

NETWORKING

IP Internetworking

- » Integrated 4-port IP router
- » Transparent TCP and HTTP acceleration
- » Packet classification and filtering

POINTING

- » On-board pointing information display
- » Integrated signal strength indicator

MANAGEMENT

- Modem** Web GUI local management and SurfBeam 2 network SNMP-based remote management and control
- Router** Web GUI local management
- Display** Pointing and status indication
- LEDs** Quick terminal status



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