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 DSL-like Internet speeds 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.
**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 - 52 Msps

**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 and 20000 Ksps

**ANTENNA**

- Input Frequency 18.3 - 20.2 GHz
- Output Frequency 28.1 - 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 dBWi
  - Nominal G/T 17.5 dB/K
- **50 CM REFLECTOR**
  - Nominal EIRP 45.2 dBWi
  - 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 100-240 VAC; 50-60 Hz
- DC 12-32 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 158 cm / 62 in (airline checkable)
  - 2 cases each with size less than 115 cm / 45 in (airline carry-on)
- **Terminal Weight** Approximately 20 lbs (9 kgs)

**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

---

**CONTACT**

**COMMERCIAL SALES** vsatsales@viasat.com

**GOVERNMENT SALES** gov.satcom@viasat.com

**UK SALES** sales@viasat.uk.com

**ATLANTA** 1725 Breckinridge Plaza, Duluth, GA 30096
  - TEL +1.678.924.2400  FAX +1.678.924.2480

**NEW DELHI** 601 New Delhi 611-A, JMD Pacific Square
  - Sector 15, Part 2, NH #8 Gurgaon 122001 Haryana, India
  - TEL +91.124.402.5200  FAX +91.124.402.5252

**ROME** Piazza del Popolo 18, 00187 Rome, Italy
  - TEL +39.0636712452  FAX +39.0636712400

**SAN DIEGO** 6155 El Camino Real
  - Carlsbad, CA 92009
  - TEL +1.760.476.2200  FAX +1.760.929.3941

**SYDNEY** Unit 4/22 Narabang Way
  - Belrose, NSW 2085, Australia
  - TEL +61.9986.3888  FAX +61.9986.3899

**UNITED KINGDOM** Sandford Lane, Wareham, Dorset, BH 20 4DY
  - TEL +44 (0) 1929 55 44 00  FAX +44 (0) 1929 55 25 25

---