

SurfBeam 2 Satellite Terminal - 75cm Dish

Fast and affordable broadband internet access over satellite with always-on high-speed connectivity.



Overview

The standard SurfBeam 2 terminal and 75cm antenna provides high-performance, cost-efficient internet access with support for fast web browsing, video streaming, file sharing and bandwidth-intensive internet applications. With downstream rates of up to 40Mb/s and upstream rates of up to 10Mb/s, the SurfBeam 2 sets new standards for performance and reliability.

A faster, more responsive, user experience.

The indoor unit (IDU) has an embedded acceleration client that works with gateway acceleration servers to provide a faster and more responsive experience for users. The outdoor unit (ODU) comprises a satellite reflector and feed, transmit and receive electronics and a mounting kit and can be supplied with a pole-mount or universal wall-mount.

Simple to install and operate

SurfBeam 2 was designed to enable fast installation and is part of a complete system that includes a Satellite Modem Termination System (SMTS) gateway and a Network Management System (NMS) to enable simple subscriber management and features such as automated service provisioning, diagnostics and customer support.

Ideal for a range of applications

SurfBeam 2 is ideal for a broad range of industry applications such as high-speed internet access, Video and Voice over IP, high-speed file transfer, Email and Web browsing.

Details

Manufacturer:	• ViaSat
Network:	• EutelSat
Device Type:	• Terminal
Markets:	• Utility • Renewables • Construction

Technical Specs

Indoor Unit (IDU) Specifications:

Forward Channel - Modulation/Encoding

- 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: 10 to 52 MSym/s

User Speeds

- Forward Channel: Operator configurable up to 40Mbit/s
- Return Channel: Operator configurable up to 10Mbit/s

Networking (IP Networking)

- Transparent TCP and HTTP acceleration
- Packet classification and filtering
- Per-flow queuing

Regulatory

- Safety: cULus, CE, CB Scheme
- EMC: FCC 47, CFR 15B class B, CE
- RoHS, Compliant to RoHS Directive 2002/95/EC
- REACH: Compliant to REACH Directive

Interfaces

- CPE: IEEE 802.3, 10/100/1000 BaseT; RJ-45 connector
- Expansion: USB 2.0, type A connector

Outdoor Unit (ODU) Specifications:

General

- Input Frequency: 18.3 to 20.2 GHz
- Output Frequency: 28.1 to 30.0 GHz
- Nominal EIRP: 48.4 dBW
- Nominal G/T: 17.5 dB/K
- Polarization
- Standard - Circular, Cross-polarized with remote switching option
- Optional - Circular, fixed Co-polarized Arabsat 5C frequency plan
- Mounting: Available pole mount or universal wall mount

Physical

- Reflector Size: 77 x 72 cm
- Weight 33.5 lb; 15.2 kg
- Mast Size 2.88 in O.D.; 3mm

Return Channel - Modulation/Encoding

- 8PSK Rate: 7/12, 2/3, 3/4
- QPSK Rate: 3/8, 1/2, 5/8, 3/4
- BPSK Rate: 1/2

Automatic Rate Control & Adaption

- Symbol Rate: 625, 1250, 2500, 5000, 10000 & 20,000 kSym/s

Management

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

Indoor Environment

- Operational: 0 to +40C
- Storage: -35 to +65C
- Humidity: 0 to 95% (non-condensing)
- Altitude: 3000m
- Shock and Vibration: Per ISTA, Procedure 3A, 2008

Physical

- Status: Indicators Power; Satellite Acquisition; Activity; Fault
- Size: 4.3 x 22 x 21cm
- Weight: 2.2kg (with power supply)

Power Supply

- 100 to 240 VAC; 50 to 60 Hz

Outdoor Environment

- Supplied by IDU on IFL coax, 30 to 55 Vdc
- Ambient Temperature -40° to +55° C (up to +80° C survival)
- Humidity 0 to 100% (condensing)
- Rain < 100 mm/hr
- Wind 50 mph

Regulatory

- Safety: cULus, CE, CB Scheme
- EMC: FCC 47 CFR Part 15 Subpart B, 25.138,25.202, ETSI 301 459, CE
- RoHS, Compliant to RoHS Directive 2002/95/EC
- REACH: Compliant to REACH Directive

Inter Facility Link (IFL) Cable

- Type: RG-6, 75 Ohm
- Connector: F (male)
- Length (max): 60m