The ViaSat broadband system delivers a quantum leap in affordable internet access via satellite. These next-generation satellite terminals integrate with the world’s highest capacity Ka-band satellites. With more than 2 million terminals shipped, ViaSat has proven market leadership in Ka-band performance, cost, and capacity for broadband services.

## 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-of-service 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 rate adaptation 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

## HIGH-PERFORMANCE, COST-EFFICIENT INTERNET ACCESS
Only ViaSat Ka-band innovations enable the world’s highest capacity Ka-band satellites to deliver the best broadband internet speeds around the world. The ViaSat Residential Terminals include an attractive indoor unit (IDU) and an unobtrusive outdoor unit (ODU) that enable fast web browsing, video streaming, file sharing, and bandwidth-intensive internet applications.

Two terminal models are available. The Residential Broadband Terminal 1240 builds on the success of the ViaSat SurfBeam 2 Residential Terminal, offering higher speeds, four Gigabit Ethernet ports, integrated 802.11b/g/n Wi-Fi, consumer and SME router capabilities, and built-in VoIP adapter (RJ-11 interface). It is capable of delivering downstream rates up to 60 Mbps and upstream rates up to 20 Mbps, and the network operator can define varying classes of service using provisioning tools to configure the terminal for lower downstream and upstream speeds.

ViaSat Residential Broadband Terminals include an embedded acceleration client for a faster, more responsive user experience, and the units integrate seamlessly into any home-based network via a standard Ethernet connection. The ODU includes a satellite reflector and 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
The compact residential terminal was designed for quick and reliable professional installation.

The terminals are part of a complete 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.

## RESIDENTIAL BROADBAND INDOOR UNITS
INTERFACES
Residential Broadband Terminal 1240
  » CPE (x4)  IEEE 802.3, 10/100/1000 BASE-T, RJ-45 connector
  » Wi-Fi  802.11b/g/n
  » VoIP  RJ-11
  » Expansion  USB 3.0
SurfBeam 2
  » CPE (x1)  IEEE 802.3, 10/100/1000 BASE-T, RJ-45 connector
  » Expansion  USB 2.0, type A connector

OUTDOOR UNIT (ODU) SPECIFICATIONS
Input Frequency  18.3 to 20.2 GHz
Output Frequency  28.1 to 30.0 GHz
Nominal EIRP  48.4 dBW
Nominal G/T  18.5 dB/K
Polarization
  » Standard  Circular, cross-polarized, with remote switching
  » Optional  Circular, fixed co-polarized, Arabsat 5C frequency plan
Mounting
  » Available pole mount or universal mount

OUTDOOR ENVIRONMENT
Power  Supplied by IDU on IFL coax
Ambient Temperature  -40° to +55° C (up to +80° C survival)
Humidity  0 to 100% (condensing)
Rain  <100 mm/h
Wind  45 mph

REGULATORY
Safety  cULus, CE, CB scheme
RoHS  Compliant to RoHS directive 2011/65/EU
REACH  Compliant to REACH directive

PHYSICAL CHARACTERISTICS
Reflector Size  77 x 72 cm
Weight  30 lb; 13.6 kg (with transceiver and universal wall mount)

INTER-FACILITY LINK (IFL) CABLE
Type  RG-6, 75 Ohm
Connector  F (male)
Length (Maximum)  50 m

ORDERING INFORMATION
ViaSat RBT 1240 IDU  RM5111N
SurfBeam 2 IDU  RM4100N
Standard Antenna  1182925
European Antenna  1201831 or 1201832
TRIA  X01012000A001S or X01012000A003S