

FULLY RUGGEDIZED, HIGHLY PORTABLE IP ACCESS FOR MOBILE USERS



The VRT-100 from ViaSat is the only fully ruggedized portable satellite Broadband Global Area Network (BGAN) terminal[†] designed for high-speed communications off the beaten path. The terminal delivers IP connectivity at speeds up to 422 kbps in a form factor that is highly ruggedized, man-portable, and vehicular rack-mountable. For vehicular use, the terminal sits in a mounting tray which permits operation while charging the battery. Easily dismounted, the terminal can also be used while still in the backpack. The detachable antenna can be operated remotely up to several hundred feet, if necessary, and the detachable front control module enables terminal operation while still on the user's back.

The rugged, portable VRT-100 brings the IP advantage to your jobs in very demanding environments, delivering portable, high-speed internet access that operates with Inmarsat's service on the new Inmarsat-4 satellite. This rugged terminal offers a full range of data and legacy voice services to the user.

This rugged, mobile BGAN terminal extends your network infrastructure to deployed users, enabling the entire workforce to be fully networked. Ready for use wherever and whenever, this terminal interfaces with IP devices to quickly create a fully IP-based, networked environment.



Interfaces to PCs, IP phones, and other IP devices

BROADBAND CONNECTIVITY. WHEREVER. WHENEVER.

Reliable Broadband

- High-speed IP services using Inmarsat's BGAN system*
- RJ-11, ISDN, and 6-pin audio Voice interfaces
- Link mobile users deployed in demanding environments

For Use on Inmarsat's Broadband Global Area Network

- High-speed data network
- Variable bit rate service up to 258 kbps transmit and 422 kbps receive
- Guaranteed Constant Bit Rate service (streaming) up to 64 kbps
- Worldwide coverage □
- IP and circuit-switched application support for interoperability

Key Features Enable High Deployed Utility

- Man-portable and small enough to use while in your backpack or mounted in your vehicle
- Fully ruggedized to handle your toughest jobs
- Powered by existing rugged commercial batteries and power supplies
- Multiple interfaces can support diverse communication needs
- Antenna packaged integral to terminal; slides off for quick deployment

Rugged Satellite Broadband to Users in Remote Regions

- Military forces
- News reporters and backpack journalists
- Medical and peace workers
- Emergency responders
- Anyone who wants to communicate at high speed when traveling or working in locations where local networks are poor or non-existent

VRT-100 INTERFACE

- RJ-45 for USB Interface or ISDN Handset
- RJ-11 for plain telephone
- Audio Port for 6-pin rugged phone
- LCD and Buttons
- Power Switch/Handset Volume
- Remote Antenna Interface
- RJ-45 Ethernet (IP)



SPECIFICATIONS

GENERAL CHARACTERISTICS

Frequency Band:	1626.5 – 1660.5 MHz (Tx); 1525.0 – 1559.0 MHz (Rx)
Modulation:	QPSK and 16-QAM (Forward); 4-ary QPSK (Return)
Transmit EIRP:	20 dBW
Receive G/T:	> -10.5 dB/K
Transmit Data Rate:	258.4 kbps (max)
Receive Data Rate:	422 kbps (max)
Streaming IP Rate:	64 kbps (max)

PHYSICAL CHARACTERISTICS OF THE COMPLETE TERMINAL

Dimensions:	11.5"W x 5.2"H x 17"D
Weight:	18 lbs (including batteries)

POWER

AC/DC Power:	ABP-AC/DC/BT-TR-1 or MRC-82 or equivalent
Dual Battery Configuration:	Two BA-5590 or equivalent in an MRC-89 battery box
Standby Time (Dual Battery):	24 hrs
Transmit Time (Dual Battery):	12 hrs at nominal EIRP (100% duty cycle)

ENVIRONMENTAL TOLERANCES

Ambient Temperature:	-20°C to +55°C (Operational) / -40°C to +80°C (Survival/Transport)
Relative Humidity:	up to 95% non-condensing at 40°C
Ice Survival:	up to 25mm of ice
Immersion Survival:	up to 1m salt water
Altitude (operation):	up to 15,000 ft at 23°C
Waterproof and Dustproof:	IP 67 (Transceiver and Antenna)

ViaSat, Inc. Tel: 888.ViaSat.1
6155 El Camino Real Email: insidesales@viasat.com
Carlsbad, CA 92009 <http://bgan.viasat.com>



San Diego 6155 El Camino Real, Carlsbad, CA 92009, Tel: +1.760.476.2200, Fax: +1.760.929.3941
Washington, D.C. 1101 Wilson Blvd., Suite 1201, Arlington, VA 22209, Tel: +1.703.248.9662, Fax: +1.703.243.8073