

VRT-100 ViaSat Fully Rugged Terminal



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 dismantled, 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.

Key Features

- High-speed IP services using Inmarsat's BGAN system*
- Man-portable and small enough to use while in your backpack or mounted in your vehicle
- Powered by existing rugged commercial batteries and power supplies
- Antenna packaged integral to terminal; slides off for quick deployment
- Variable bit rate service up to 258 kbps transmit and 422 kbps receive
- Guaranteed Constant Bit Rate service (streaming) up to 64 kbps
- RJ-11, ISDN, and 6-pin audio Voice interfaces
- IP and circuit-switched application support for interoperability



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VRT-100 ViaSat Fully Rugged Terminal Specifications



FUNCTIONAL	
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)
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)
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)
Dimension & Weight	11.5"W x 5.2"H x 17"D 18 lbs (including batteries)
ENVIRONMENTAL SPECIFICATIONS	
Ambient Temperature	-20°C to +55°C (Operational) / -40°C to +80°C (Survival/Transport)
Humidity	Relative Humidity: up to 95% non-condensing at 40°C
Waterproof and Dustproof	IP 67 (Transceiver and Antenna)
Drop Spec.	Altitude (operation): up to 15,000 ft at 23°C
Ice Survival	up to 25mm of ice
Immersion Survival	up to 1m salt water



Rugged Systems is one of Europe's leading suppliers of rugged, mobile computer, display and communications solutions and services. Specialising in applications such as test & measurement, command and control, data acquisition, secure data & computing, TEMPEST and ultra-reliable message transfer over noisy tactical communication channels. The company strives to be innovative and provide cost effective solutions, through many years of knowledge and experience