

AN/PSC-14 Secure BGAN Manpack Terminal

Inmarsat BGAN Satellite Communications With Embedded Type 1 Encryption



FULLY RUGGEDIZED, SECURE IP ACCESS THAT FITS IN YOUR RUCKSACK

The ViaSat AN/PSC-14 is a ruggedized Broadband Global Area Network (BGAN) manpack terminal with embedded encryption, specifically designed for tactical military use. The terminal integrates secure IP communications with speeds up to 422 kbps in a form factor that is highly ruggedized, manportable, and vehicular rack-mountable. For vehicular use, the terminal sits in a mounting tray and can be paired with a land mobile antenna system for communications on the move. Easily dismantled, the terminal can be operated while still in the rucksack. The detachable antenna can be located remotely up to several hundred feet away, and if necessary, the detachable front control module enables terminal operation while still on the warfighter's back.

The ViaSat AN/PSC-14 brings the IP advantage to your missions, delivering secure, manportable, high-speed internet access that operates with Inmarsat's service on the new Inmarsat-4 satellite. This terminal combines NSA-certified Type 1 communications security and broadband speed to offer a full range of secure and non-secure data and legacy voice services to the warfighter.

The ViaSat AN/PSC-14 extends your secure network infrastructure to warfighters, enabling the entire force to be fully networked. Ready for use wherever and whenever, the AN/PSC-14 extends your network to the last tactical mile.



Interfaces to tactical computers and tablet devices

BROADBAND CONNECTIVITY. WHEREVER. WHENEVER.

BROADBAND SIPRNET[®] TO THE RUCKSACK

- » High-speed IP services using Inmarsat's BGAN system
- » Integrated NSA-certified Type 1 encryption for fully secure IP communications
- » 6-pin audio for plain text voice over BGAN
- » RJ-11 Telephone and ISDN Handset Voice interfaces
- » Link mobile warfighters on the edge to the networked force

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 MILITARY UTILITY

- » Manportable and small enough to use while in your rucksack or mounted in your vehicle
- » Fully ruggedized to handle your toughest missions
- » Powered by existing military batteries (BA-5590) for enhanced supportability
- » Flexible modes of operation can support diverse missions
- » Antenna packaged integral to terminal; slides off for quick deployment

AN/PSC-14 INTERFACES

RED INTERFACE

- » RJ-45 for Ethernet (IP, voice)
- » Key Fill
- » Zeroize
- » Reset
- » CIK
- » Console port

BLACK INTERFACE

- » RJ-45 for USB interface or ISDN handset
- » RJ-11 for audio
- » Audio port (unencrypted voice)
- » Remote control for core module
- » 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)

ENCRYPTOR

- Encryption** Type 1 HAIPE® v1.3.5 compliant
Key Fill Interface DS101
Dynamic Key Generation FIREFLY
Flexibility Modular, reprogrammable architecture
Crypto Ignition Key CIK removal to unclassified CCI

PHYSICAL CHARACTERISTICS OF THE COMPLETE TERMINAL

- Dimensions (WHD)** 11.5 x 5.2 x 17 in
Weight 25 lbs (including batteries)

MODES OF OPERATION

- Plain Text (PT)** BGAN on, INE off (for power savings)
Simultaneous Cipher Text and Plain Text (SIM CT-PT) INE and Black LAN over BGAN
Independent Cipher Text and Plain Text (SIM CT-PT): BGAN on, INE over LAN
Cipher Text (CT) INE on, BGAN off (for power savings)

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) 12 hrs (24 hrs with INE off)
Transmit Time (Dual Battery) 8 hrs at nominal EIRP (100% duty cycle) (12 hrs with INE off)

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 25 mm of ice
Immersion Survival up to 1 m salt water
Altitude (operation) up to 15,000 ft at 23°C
Waterproof and Dustproof IP 67 (Transceiver and Antenna)

CONTACT

SALES

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