

RF-7800B-DU024

LAND PORTABLE BGAN TERMINAL

*L-Band satellite
connectivity*

The Harris RF-7800B-DU024 Land Portable Broadband Global Area Network (BGAN) SATCOM Terminal provides tactical radio network capability that enhances the FALCON III[®] multiband radio family. The RF-7800B-DU024 is a Class 2 BGAN Land Portable Terminal that provides data rates of up to 432 Kbps. The RF-7800B-DU024 BGAN terminal is designed for operation in harsh environmental conditions.

The RF-7800B-DU024 terminal is a manually pointed antenna system capable of rapid deployment for sending and receiving data once pointed at the satellite. When used with the AN/PRC-117G(V)1(C) or the RF-7800M manpack radio, the terminal provides a multi-mode system utilizing ad-hoc networking to automatically route between mobile wideband networked line-of-sight (LOS) nodes, adding global beyond-line-of-sight (BLOS) satellite connectivity. The system is designed to ensure a seamless tactical network-centric BLOS connectivity to the existing FALCON III tactical networks, providing secure IP data transfer capability and increased communications reliability.

The RF-7800B-DU024 can be considered for global network connectivity solutions when used as a standalone terminal with a computer for applications such as law enforcement, homeland security, or first responders.

The Harris BGAN Terminal IP data is encrypted by the Sierra[®] II Type-1 algorithms in the AN/PRC-117G or the Acropolis[®] II AES Encryption algorithms in the RF-7800M. The embedded software of the manpack radio provides the ability to fully configure, remotely control and provide status and fault monitoring of the RF-7800B-DU024 BGAN Terminal using the radio's front panel.



**Contact Harris RF for additional
details on BGAN and other Harris
RF products.**

Specifications for the RF-7800B-DU024

Features

Full IP compatibility: Email, Web browsing, FTP, etc.

Global INMARSAT coverage

INMARSAT certified to Land Mobile User Equipment Class 2, providing:

- BGAN Background user data rates up to 422 Kbps
- BGAN Streaming Quality of Service: User data rates of 32, 64, 128 Kbps

Compatible with the following VPNs: Cisco-VPN, Client V1 or V2.6.3, Nortel-Contivity VPN Client, V04-15.06, Netscreen-Remote Client 8.1, Checkpoint-V4.1, and SonicWall

Allows simultaneous use of all interfaces (Ethernet, USB, ISDN)

Multi-user capability of up to 11 simultaneous primary user contexts/sessions

IP Network bridging mode and modem mode support

Built-in test

Customer access to a removable GSM/GPRS/UMTS subscriber identity module (SIM/USIM)

Accessories

Data Cables:

Ethernet, ISDN, USB (standalone), Data Extension

Power:

DC power supply cable, AC/DC power supply
Automobile 12V DC power supply

CONOPS

Mobile reach-back operation

Mobile-mobile operation

Simultaneous mobile-mobile operation

RF-7800B-DU024 Class 2 Land Portable Characteristics

BGAN Satellite L-Band frequency operation;
TX:1626.5-1660.5 MHz and RX: 1525-1559 MHz, Full-duplex, BLOS operation

9.5" diameter x 9.5" height x 2.5"width (24 x 24 x 6.5 cm)

Weighs less than 6 lbs. (2.7 kg)

BGAN INMARSAT satellite connectivity

Capable of operating on a single BA-5590 battery,
120/240 AC power supply, or a standard vehicle DC adapter

Environmental Specifications

- Tested to MIL-STD-810F
- Tested to MIL-STD-461
- ROHS Compliant

Certifications

FCC

C5

GMPCS / ITM

Interfaces

Ethernet

USB

ISDN voice (4 Kbps)

ISDN data (64 Kbps)

DC Power (10 to 34 VDC)

User-removable SIM Card Slot

Tactical Area Communications System Utilizing the RF-7800B Terminals

