



*assuredcommunications*®



## **RF-7800B-DU024**

### **LAND PORTABLE BGAN TERMINAL**

*Assured connectivity for mobile  
tactical users*

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-MP manpack radios, the terminal provides a multi-mode system that utilizes 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 Falcon III integrated system manages Inmarsat subscriber costs through the automated routing between ANW2 LOS and BLOS nodes. 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. When used with the Falcon III manpack radios, the Harris BGAN terminals can provide an increased effective throughput of up to 2 Mbps over the Inmarsat network due to TCP/IP acceleration and compression algorithms within the ANW2 waveform, further reducing Inmarsat subscriber costs.

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-MP. 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, making it the easiest BGAN Terminal to set up and operate.

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 humanitarian and disaster relief efforts.



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

# Specifications for the RF-7800B-DU024

## Capabilities

Full IP Capability	Email, Web browsing, FTP, etc.
Inmarsat Certified	<ul style="list-style-type: none"> <li>• Land Mobile User Equipment Class 2</li> <li>• BGAN Background user data rates up to 432 kbps</li> <li>• BGAN Streaming QoS: User data rates of 32, 64, 128 kbps</li> <li>• Global coverage</li> </ul>
Multi-user capability of up to 11 simultaneous primary user contexts/sessions	
IP network bridging mode & modem mode support	
FCC, C5, GMPCS/ITM Certified	

## Specifications

BGAN Satellite L-Band Frequency Operation	<ul style="list-style-type: none"> <li>• TX: 1626.5-1660.5 MHz</li> <li>• RX: 1525-1559 MHz</li> <li>• Full-duplex, BLOS operation</li> </ul>
Dimensions	9.5 D x 9.5 H x 2.5 W in. (24 x 24 x 6.5 cm)
Weight	6.2 lbs. (2.8 kg)
Power Options	<ul style="list-style-type: none"> <li>• Single BA-5590 Style battery</li> <li>• 120/240 AC power supply</li> <li>• Standard vehicle DC adapter</li> </ul>

## Interfaces

Data	Ethernet, USB
ISDN	Voice (4 kbps), data (64 kbps)
DC Power	10–34 VDC
User-removable SIM card slot	
Simultaneous use of all interfaces	

## Environmental

Rugged	MIL-STD-810F
Immersion	1 meter
EMI	MIL-STD-461E
Compliance	ROHS

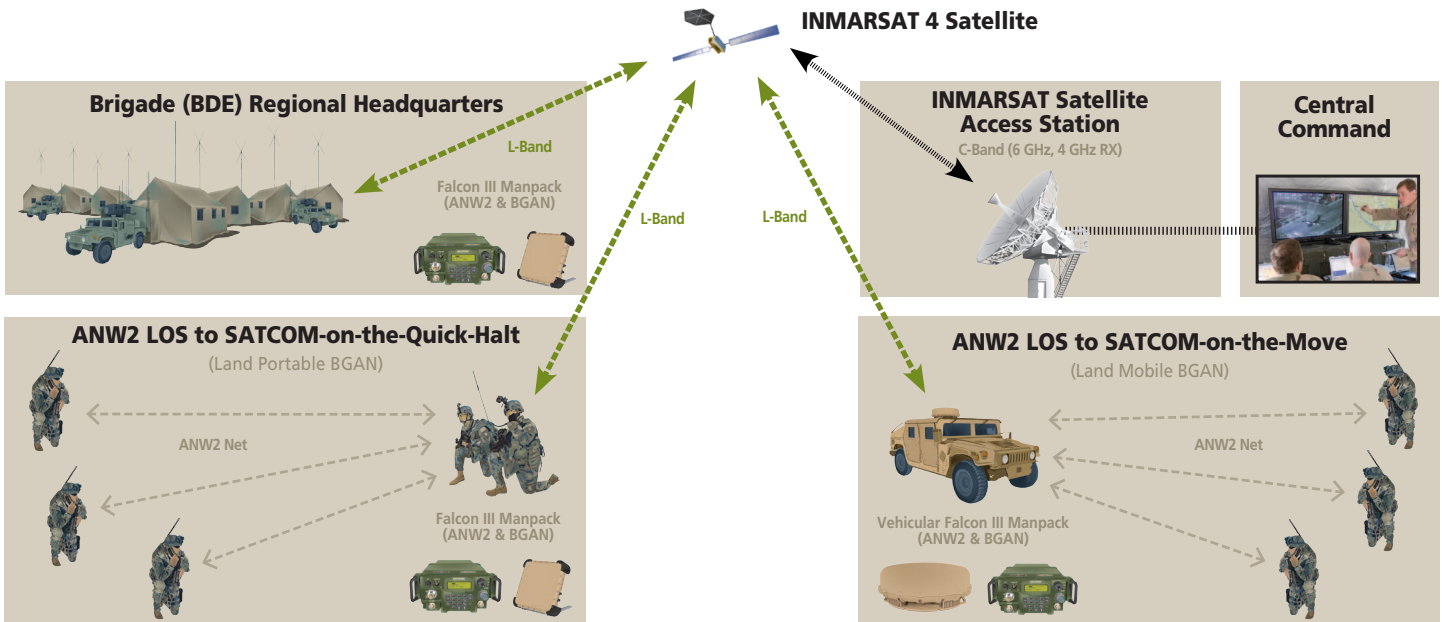
## Included Accessories

12043-0844-A1	AC/DC Power Supply
12043-0833-A010	Standalone Ethernet Cable

## Optional Accessories

12091-0060-01	AN/PRC-117G, RF-7800M-MP Land Portable Ancillary Kit
12091-4010-01	Battery Box & Cover Kit
12043-0830	AN/PRC-117G, RF-7800M-MP Black Ethernet Cable
12043-0831	AN/PRC-117G, RF-7800M-MP Black Ethernet & ISDN Cable
12043-0834-A010	Standalone Ethernet & ISDN Cable
12043-0835-A010	Standalone ISDN Cable
12043-0836-A010	Standalone USB & ISDN Cable
12043-0837-A015	Data Extension Cable, Ethernet & ISDN
12043-0850-A006	Battery Box Cable
12043-0841	BGAN DC Power to RF-505X PS
12043-0843-A015	Automobile 12 VDC Power Cable
12043-0845	Power Extension Cable
12043-0846	BGAN DC Power to 2 Leads
12091-4160-01	ISDN to POTS Converter
12091-4150-01	BGAN Land Portable Fixed Mounting Kit

## Tactical Area Communications System Utilizing the RF-7800B Terminals



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