THALES

PRC6809 MBITR
Multiband Inter/Intra Team Radio

Advanced
Capabilities
in a Rugged,
Lightweight
Package

PRC6809 MBITR

In a ruggedized package weighing less than two pounds, the PRC6809 MBITR serves defense, allied, and coalition forces globally. Based on the combat-proven AN/PRC-148 MBITR, the PRC6809 MBITR provides unprecedented interoperability with existing military and commercial legacy radio systems. In addition, with software upgradeability, future operation with the next generation of communications equipment is ensured. The multi-processor architecture of the PRC6809 MBITR creates a truly software-based, handheld radio. The PRC6809 MBITR can be utilized with the full set of system components for mounted and dismounted operations.

Technical Specifications

Key Features

➤ Contiguous 30–512 MHz Coverage

➤ DES/Type III and AES/256-bit Encryption Options

➤ New transceiver design with improved receive/transmit co-site performance

➤ Rechargeable Lithium-Ion 6.8 Ah

➤ Compliant with the Universal Battery Charger (UBC) family of tactical chargers

➤ Cornerstone of a Complete Communications System for Mounted and Dismounted Operations

Physical Parameters

Length: 8.44 inches (21.44 cm)

Width: 2.63 inches (6.68 cm)

Depth: 1.52 inches (3.86 cm)

Volume: 33.7 cubic inches (552.8 cubic cm)

Weight: 30.6 ounces (867.5 gm)

Environmental Specifications

Operating: -30° to +60° C

Storage: -30° to +71° C

Immersion: 2M/20M

Reliability

MTBF: > 30,000 hours field measured

MTTR: < 8 minutes

Waveforms/Modes of Operation

Standard Features

○ AM/FM

○ Voice/Data

○ Retransmission

○ Situational Awareness

Optional Features

○ DES Encryption

○ AES Encryption

○ Enhanced GPS

○ HAVEQUICK I/II

○ Country Specific ECCM

○ ATC 8.33 kHz

Transmit Output Power

0.1, 0.5, 1.0, 3.0 & 5.0 watts (FM)

1.0 & 5.0 watts (AM)

Data

12 and 16 kbps synchronous

Emergency Beacons

AM Swept tone beacon

Programmable Channels

100 Memory Preset Channels

Menu Selectable Groups

Clear/Digital Voice Mode Selection on a Channel-by-Channel Basis

User Programmable from front panel menu, PC Programmer, and radio-to-radio cloning

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