



THALES

Thales Defense & Security, Inc.

Products



22605 Gateway Center Drive
Clarksburg, MD 20871

CAGE Code 23386

PRC6809 MBITR

Multiband Inter/Intra Team Radio

Advanced Capabilities in a Rugged, Lightweight Package



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. Furthermore, its software-defined upgradeability ensures future operational compatibility with next-generation communications equipment. The multi-processor architecture of the PRC6809 MBITR creates a truly software-based, handheld radio.

A wide variety of accessories and vehicle-mounting options supports flexible use across mounted and dismounted operations.

Capabilities

Key Features

- > Contiguous 30 MHz–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

Technical Specifications

Physical Parameters

Length: 8.44 in (21.44 cm)

Width: 2.63 in (6.68 cm)

Depth: 1.52 in (3.86 cm)

Volume: 33.7 cubic in (552.8 cubic cm)

Weight: 30.6 oz (867.5 g)

Environmental Specifications

Operating: -30 °C to +60 °C

Storage: -30 °C 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 and 5.0 W (FM), 1.0 and 5.0 W (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

✓		
	✓	
✓	✓	
✓	✓	
✓		
✓	✓	
✓	✓	
✓	✓	
✓	✓	

Part Number	NSN	Accessory Description
1600500-1	5985-01-487-1134	Antenna, 20M Broadband 30 MHz–512 MHz
1600500-3	5985-01-584-7883	Antenna, 2M Broadband 30 MHz–512 MHz
1600629-1	5985-01-487-1135	Antenna, Single Band Blade 30 MHz–90 MHz
1600865-8		In-Ear Headset, 20M Submersible, One Ear, Single Sided, Lightweight (Earphone Kit 1100542-501 is Included) Use with V20 (1600865-26) or V60 PTT (1600865-21)
1600469-4	5965-01-507-3576	Balanced Speaker Microphone, Single Channel (Earphone Kit 1100542-501 is Included)
1600865-21	5995-01-669-7150	Push to Talk (PTT), V60, Tan
1600865-26		Push to Talk (PTT), V20, Tan
1600865-13		Invisio 6-Pin Audio Down Lead
3600190-1	5995-01-463-5560	Audio Keyfill Adapter, 10-Pin to 6-Pin
1100641-501	5965-01-572-8509	Commercial Lightweight Urban Headset
SS-90017		Handset, H-250/U
1600771-3		Single Channel ACH Headset, Olive Drab
1600771-9		6-Pin PTT Adapter Cord

Accessories

Part Number	NSN	Accessory Description
1600503-5	5965-01-507-3994	20M (Maritime) Headset
4600049-501	5965-01-619-3175	20M (Maritime) Speaker Mic
1600842-2	6140-01-665-0882	Battery, Plastic, High Capacity
4101240-501	6160-01-487-1151	Battery Cell Holder Uses 12x non-rechargeable DL123A/CR1233A cells
4101310-501	6130-01-506-7606	Special Power Adapter Interface (SPAI)
3500460-501	5995-01-506-7580	Special Power Adapter Interface (SPAI) DC Input Cable
4101441-501		Battery Eliminator Powers the Radio from an Adapter from External DC Power Source, 4 ft L Cable, 12V DC Input Voltage
4101441-502	5940-01-483-4815	Powers the Radio from a BA-XXX90 Battery, with 3 ft L Cable
1600713-3	5995-01-558-3590	10 ft L Retransmission Cable
1600713-5	5995-01-487-1150	PLGR/DAGR GPS Cable
3500610-501	5995-01-558-3583	Cloning Cable
1600654-1	6130-01-512-0183	Single Slot, AC Only
1600494-5	5895-01-679-8664	Holster, Multicam [for use with IMBITR without SIAM/ASM]
1600494-5	5895-01-679-8664	Holster, Multicam [for use with IMBITR without SIAM/ASM]
3101156-502	6160-01-611-3493	PJC Retention Battery W/No Cells

Ron Huther

Director of International
Business Development

International Communications Systems

ron.huther@thalesdsi.com

C: 240.457.2828 | O: 240.864.7504



Specifications are subject to change without notice.

Thales Defense & Security, Inc.

22605 Gateway Center Drive | Clarksburg, MD 20871

TF: +1.800.914.0303 | P: +1.240.864.7643

solutions@thalesdsi.com | www.thalesdsi.com

092026:V2

Thales has a policy of continuous development and improvement and consequently the equipment may vary from the description and specification in this document. This document may not be considered as a contract specification. Graphics do not indicate use or endorsement of the featured equipment or service. **Copyright © 2026 Thales**