

AN/PRC-148 JEM JTRS Enhanced Multiband Inter/Intra Team Radio

Most Widely-Fielded
Tactical Handheld Radio



AN/PRC-148 JEM

The AN/PRC-148 JEM is an evolution of the combat-proven AN/PRC-148 Multiband Inter/Intra Team Radio (MBITR). It is the smallest, lightest, and most widely-fielded tactical handheld radio covering the 30–512 MHz frequency range and enables the integration of feature enhancements, and additional modes of operation. The AN/PRC-148 JEM's programmable cryptography supports the requirements of the National Security Agency's (NSA) crypto modernization program and is certified by NSA to protect the confidentiality of voice and data up through the Top Secret level. With the AN/PRC-148 MBITR as its baseline, the AN/PRC-148 JEM's features—like the human machine interface—minimize training requirements, enable rapid fielding, and provide the reliability that warfighters have trusted for many years with more than 300,000 radios fielded.



Technical Specifications

Key Features

- Contiguous 30-512 MHz Coverage
- 256 Programmable Presets
- Programmable Encryption Engine (AIM)
- Software Features Available via Simple Software Downloads
- 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)
(with battery attached, excluding antenna)

Width: 2.63 inches (6.68 cm)

Depth: 1.52 inches (3.86 cm)

Volume: 33.74 cubic inches (552.8 cubic cm)

Weight: 29.6 ounces (839.5 gm)

Environmental Specifications

Operating Temperature: -30° to +60° C

Storage Temperature: -30° to +71° C

Immersion: 2M/20M

Waveforms/Modes of Operation Dependent on Configuration of Radio

MIL-STD-188-241-1/-2
(SINCGARS — Standard/FH2 EOM)

MIL-STD-188-181C, -182B, -183B
(SATCOM/IW)

HAVEQUICK I/II

ANDVT

MELP

AM/FM

TSVCIS

Project 25

Over-The-Air-Cloning (OTAC)

Retransmission

Secure and non-secure signal channel voice

TEMPEST and EMI/EMC Compliance

NSTISSAM TEMPEST/1-92, Level III

NACSEM 5112

MIL-STD-461E

Transmit Output Power

0.1, 0.5, 1.0, 3.0, 5.0 and 10.0 watts
(waveform dependent)

Emergency Beacons and GPS

GPS Interface to PLGR, DAGR, commercial GPS devices, and Thales Remote Control Unit with GPS

Programmable Channels

256 memory preset channels

16 menu selectable groups

Clear/Encrypted mode selection on a channel-by-channel basis

User programmable from front panel menu, PC toolkit, and radio-to-radio cloning

Scan Mode — up to 16 channels

COMSEC

US NSA Type 1

VINSON and FED-STD-1023

KG84

ANDVT

Receive OTAR compatible

TRANSEC

KGV11, KGV10

Specifications are subject to change without notice.

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