

- Contiguous 30-512 MHz Coverage
- 20 W RF Output
- Single or Dual Battery Configurations
- Environmentally Rugged
- Reconfigurable Manpack
- Supports and Maintains All Functionality of All Configurations of the PRC6809, AN/PRC-148 Radio, Including MBITR and JTRS Enhanced MBITR (JEM)



Man Portable System

FOR THE AN/PRC-148 MULTIBAND INTER/INTRA TEAM RADIOS



Man Portable System

FOR THE AN/PRC-148 MULTIBAND INTER/INTRA TEAM RADIOS
MA7035

The new and improved Man Portable System is a compact, rugged amplification system which expands the capabilities of the AN/PRC-148 family of radios and secures a reliable communications link over greater distances. Providing 20 Watts of RF power amplification across the full 30-512 MHz frequency band, the Man Portable System opens up a broad range of secure and anti-jamming voice and data applications. The rucksack that houses the system is reconfigurable into three modes: backpack, shoulder strap, and handle strap. In addition to the system components, the Man Portable System has the capacity to store additional batteries, antennas, and other accessories. On-the-Move Portable Solution for the Warfighter.



TECHNICAL SPECIFICATIONS

Supports the capabilities of the installed radio

Frequency Range

- 30-512 MHz contiguous

Transmit Output Power

- 20 Watts FM
- 20 Watts PEP/110-512 MHz AM
- Power settings: 7,10,15, 20 Watts

Input Voltage (Battery)

- 18-36 VDC

Reliability - without radio installed

- MTBF: \geq 8,000 hours
- MTTR: \leq 15 minutes

Physical Parameters

- Height: 14.0 inches (35.6 cm)
- Width: 12.0 inches (30.5 cm)
- Depth: 8.0 inches (20.3 cm)
- Weight: 6.91 pounds (3.14 kg) consisting of: A320 Amplifier, 2590 battery, antenna and 6809 transceiver. With backpack 9.01 pounds (4.09 kg)

EMI Compliance

- EMI/EMC: MIL-STD-461

Battery Compatibility

- Rechargeable: 2590-Li Ion

Battery Life - with 80:10:10 duty cycle (STBY:RX:TX)

- 15 hours with one 2590 battery

Environmental

- Operating Temperature: -30° to +60° C
- Humidity: MIL-STD-810
- Shock/Stability/Vibration: MIL-STD-810

Supports the Following Waveforms/Modes (Dependent Upon Radio Installed)

- AM/FM
- HAVEQUICK I/II
- MIL-STD-188-241-1/-2 (SINCGARS)
- MIL-STD-188-181C, -182B, -183B (SATCOM IW)
- ANDVT (LPC-10, MELP Vocoders)

- Non-U.S. Government sales are subject to U.S. Government approval.
- Specifications are subject to change without notice.

- Project 25
- Over The Air Cloning (OTAC)
- 30-512 MHz 20 Watt RF Power Amplifier
- 2 Batteries
- Carry Rucksack
- 20 Watt-Capable 90-512 MHz Broadband Antenna
- 20 Watt-Capable 30-90 MHz Blade Antenna
- Speaker Microphone
- Associated Cabling
- Operation Manual

AN/PRC-148 Family of Radio Equipment:

- Dismounted/Fixed Site:
 - 5 Watt Multiband Inter/Intra Team Radios (AN/PRC-148 JEM, AN/PRC-148 MBITR, and PRC6809 MBITR)
 - 20 Watt Man Portable System
 - 20 Watt and 50 Watt Base Stations
 - 20 Watt Tactical Repeater
 - Modular Universal Battery Charger
- Vehicular:
 - 20 Watt and 50 Watt Vehicle Adapters
 - 20 Watt AN/VRC-111 Vehicle Adapter Amplifier
 - 50 Watt AN/VRC-111 Vehicle Adapter Amplifier - Dual Channel
 - 50 Watt Vehicle Adapter Amplifier - Single Channel
 - 50 Watt Low Profile Vehicle Adapter
 - 50 Watt AN/VRC-113 Cradle Vehicle Adapter

