

MA7035 Man Portable System

On-the-Move
Portable Solution
for the Warfighter



MA7035Man Portable System

The Man Portable System is a compact, rugged amplification system which expands the capabilities of the PRC6809 and AN/PRC-148 JTRS Enhanced MBITR (JEM) 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.



Technical Specifications

Key Features

- Continuous 30–512 MHz Coverage
- 20 Watt RF Output
- Single or Dual Battery Configurations
- Environmentally Rugged
- Reconfigurable Manpack
- Supports and Maintains all Functionality of all Configurations of the PRC6809 and AN/PRC-148 JTRS Enhanced MBITR (JEM) Radios

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)

Environmental Specifications

Operating Temperature: -30° to +60° C

Storage Temperature: -33° to +71° C

Humidity: MIL-STD-810

Shock/Stability/Vibration: MIL-STD-810

Reliability (without radio installed)

MTBF: ≥ 8,000 hours

MTTR: ≤ 15 minutes

Transmit Output Power

20 watts FM

20 watts PEP/110–512 MHz AM

Power settings: 7, 10, 15, and 20 watts

Input Voltage (Battery)

18–32 VDC

EMI Compliance

EMI/EMC: MIL-STD-461

Battery Compatibility

Rechargeable: 2590-Li-Ion

Specifications are subject to change without notice.

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