

MUOS High Power Amplifier (MHPA)

For AN/PRC-155 Manpack Radios



Converged voice and IP data services

Crystal clear voice quality

Dial-up voice calls to any other
MUOS terminal worldwide

Group communications mode

Virtually unlimited communications range

Dial-up voice communications with any
SCIP-enabled DISN (landline) voice phone

Computer access to designated SIPRNET
or NIPRNET servers

Classified up to Top Secret

Overview

The MUOS High Power Amplifier (MHPA) is an appliqué for the AN/PRC-155 2-Channel Manpack. The MHPA replaces the standard power amplifier on either channel of the AN/PRC-155. With the MHPA attached, the HMS Manpack becomes MUOS enabled providing a worldwide satellite-based communications capability, derived from 3GPP UMTS cellular technology.

The combination of the AN/PRC-155 Manpack and MHPA provides dismounted soldiers voice and data communications while "on the move" using a lightweight, low-profile antenna. There is no need to stop, setup or point special antennas.

The First MUOS Ground Terminal for Military Users

The MHPA provides users with powerful new ways to communicate with each other and with higher command authorities. Several voice communications modes allow for both cell-phone like voice calls to other individual users or PTT talk groups of almost unlimited size and geographic dispersal, as supported by the MUOS satellite system.

The system also allows users to connect a standard laptop to the terminal and login to a SIPRNET or NIPRNET server from virtually anywhere in the world. Seamless Teleport services allow calls to be made to landline and terrestrial networks just as easily as to other MUOS terminals.

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Technical Specifications

- Case dimensions:
 - 6.45" x 3.00" x 1.83"
- Weight:
 - 2.25 lbs
- PRC-155 compatibility:
 - Compatible with both CH1 and CH2
- Waveform support:
 - MUOS
- Number of channels:
 - 1 Full Duplex Channel
- Receive Frequency Range:
 - 360 MHz – 380 MHz
- Transmit Frequency Range:
 - 300 MHz – 320 MHz
- Max. power output
 - 12 Watts
- RF bypass
 - External Interface connector
 - Type N
- Legacy Waveform Support
 - SINGARS
 - SRW
 - SATCOM
- JTRS compliant
- JTRS JPO-certified waveforms
- Crypto compatibility
 - Fully compatible with COMSEC and Cover/Discover
 - (Type 1)
- Part Number
 - 01-P56541U002

Features and Benefits

- Easy installation in the field on the AN/PRC-155 2-Channel Manpack
- Modular design for ease of technology upgrades
- Ruggedized (MIL-STD 810F), lightweight chassis that is EMI/EMC compliant
- Bypass mode allows PRC-155 standard waveforms to run native within the radio
- Compatible with any AN/PRC-155 equipped with MUOS software load



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