



MBITR AN/VRC-111 Vehicle Adapter Amplifier

For The Multiband Inter/Intra Team Radio (MBITR) System



- Maintains All Functionality of the AN/PRC-148 MBITR and MBITR Vehicle Adapter
- Coverage Across the Full 30-512 MHz Frequency Range
- 20 Watt RF Output
- Installs onto Existing MT6352 Mounting Tray
- Compatible with Existing SINCGARS Vehicle Antennas (Provided Separately)
- Powered Through Existing SINCGARS Mounting Tray
- No Additional RF or Power Cable Installation Required
- Consists of Two MBITR Urban Radio Systems, Two MBITR Vehicle Adapters, and Interface Tray

Seamless, Risk-Free Upgrade to the JTRS-Enhanced MBITR (JEM) Configuration



MBITR VAA

Vehicle Adapter Amplifier

AN/VRC-111

The MBITR VAA is a COTS/NDI, electrical and mechanical fixture combining the functionality of the battle-proven MBITR and MBITR Vehicle Adapter into a configuration that offers an alternative to existing SINCGARS vehicular installations, such as the AN/VRC-91F(V). The MBITR VAA consists of two MBITR Urban Radio Systems, two MBITR Vehicle Adapters and a specially-designed electrical/mechanical interface tray that facilitates direct installation into military vehicles outfitted with SINCGARS Installation Kits (IKs) utilizing Mounting Base MT-6352. The MBITR VAA, when installed in combination with a SINCGARS IK, enables power amplified (20 Watt per Vehicle Adapter), co-site filtered, MBITR SINCGARS performance in the 30-88 MHz frequency band as well as operation with the SINCGARS IKs audio devices and vehicular intercom systems such as the VIC-3. True "jerk-and-run" radio dismount capability is retained with single push-button action. Capability beyond basic SINCGARS functionality (e.g., operation in the 88-512 MHz range) is available through replacement of the standard antenna provided in the SINCGARS IK with a readily available COTS, 30-512 MHz broadband antenna.

Enhanced capabilities on a proven platform.

COMPONENTS

MBITR AN/PRC-148 (2)

- 30-512 MHz frequency range
- 5 and 6.25 KHz step size
- AM and FM
- SINCGARS and HAVEQUICK I/II frequency hopping, ANDVT (PSK) and retransmission
- Voice and digital data, 100 programmable presets
- CTCSS tones
- Analog narrowband capable
- Type I (CCI) and Type III (DES) encryption
- 0.1 to 5 Watt output
- JITC tested
- Immersibility 2 meters
- Less than 30.6 ounces
- Rapid start-up time

MBITR Vehicle Adapter (2)

- 30-512 MHz frequency range
- 20 Watt RF output
- 12-32 VDC input power range
- Integrated tunable harmonic filters
- Integrated tunable co-site filters
- Environmentally rugged
- AM and FM
- Supports SINCGARS and HAVEQUICK I/II frequency hopping, ANDVT (PSK) and retransmission



- Cable-free "Jerk & Run" radio dismount capability
- Full-function removable control head supports remote operations
- Integrated radio battery charger
- Supports all MBITR radio functionality

Includes

- Two MBITR AN/PRC-148 urban radios
- Two MBITR Vehicle Adapters
- One Interface Tray
- Two Holsters
- Four Lithium-Ion rechargeable batteries
- Four non-rechargeable battery holders
- Two low band (30-90MHz) antennas
- Two wideband (90-512MHz) antennas
- Two radio accessory/carrying bags
- Technical Manuals
- Retransmission capable (with optional retransmission cable)

Available MBITR System Components

- Vehicle Adapter
- Tactical Repeater
- Base Station
- Man Portable System

- Non-U.S. Government sales may be subject to U.S. Government approval and may require Government - to - Government agreements.
- Specifications are subject to change without notice.

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