



50 Watt Low Profile Vehicle Adapter

For the AN/PRC-148 Multiband Inter/Intra Team Radios



- Contiguous 30-512 MHz Coverage
- 50 Watts RF Output 30-88 MHz
20 Watts RF Output 89-512 MHz
- Integrated Harmonic Filters
- Programmable Cosite Filtering
- Lowest Profile 50 Watt Vehicle Adapter for Space Constrained Installation
- Environmentally Rugged - Meets MIL-STD-810
- Removable Control Head for Full Function Remote Operations
- Cable-free Radio Dismount Capability in Less Than 2 Seconds
- Supports the Following Waveforms/Modes Dependent Upon Radio Installed (Implemented and Planned)
 - AM/FM
 - HAVEQUICK I/II
 - MIL-STD-188-241-1/-2 (SINGARS)
 - MIL-STD-188-181B (56 kbps)
 - ANDVT (LPC-10, MELP Vocoders)
 - Project 25
 - Over The Air Cloning (OTAC)
 - Retransmission

Supports and Maintains the Functionality of the Installed AN/PRC-148 Radio, Including MBITR and JTRS Enhanced MBITR (JEM)

50 Watt Low Profile Vehicle Adapter

For the AN/PRC-148 Multiband Inter/Intra Team Radios

MA7135



The compact, rugged Low Profile Vehicle Adapter (LPVA) for the combat-proven AN/PRC-148 family of multiband inter/intra team radios provides 50 Watts of RF power amplification from 30-88 MHz and 20 Watts of RF power amplification from 89-512 MHz. The LPVA provides extended range for the most advanced handheld radio in operation. Having a low profile weighing 10 pounds, the LPVA can be easily integrated into air, land, and sea-based platforms. The LPVA chassis provides interfaces for power sources, antennas, intercoms, and data devices. The internal battery charger recharges the radio's Lithium-Ion battery. Users can dismount the radio from the LPVA within two seconds - cable free, fully charged, and immediately operational. The Removable Control Head with LCD display provides remote control of radio functions. **Rapid, seamless transition from mounted to dismounted operations without losing communications.**

GENERAL SPECIFICATIONS

Supports the capabilities of the installed radio

Frequency Range

- 30-512 MHz contiguous

Power Input

- 20 to 32 VDC
- Maximum Input Power 240 Watts

Installations

- SINGARS MT-6352 Mounting Tray
- Stand-alone Vehicle Installations

Weight

- 10 lbs (without radio)
- 15 lbs with SINGARS Adapter Tray and Cabling

Radio Unit

- All variants of the AN/PRC-148 (MBITR and JEM) and PRC6809 MBITR

Electrical Interfaces

- AN/VIC-1, AN/VIC-3, LS-671, MT-6352 Power, RS-232 Data

Mechanical Interfaces

- MT-6352, MT-6352A

RF SPECIFICATIONS

RF Interface

- 50 Ohms

FM Receive Sensitivity

- -116 dBm Typical

Output RF Power

- 50 Watts from 30 to 88 MHz
- 20 Watts from 89 to 512 MHz

Duty Cycle

- 100% operation at 60°C
- Supports Continuous Operation For Typical Use

EMI Compliance

- EMI/EMC: MIL-STD-461E

TEMPEST Compliance

- NSTISSAM TEMPEST/1-92, Level II
- NACSEM 5112

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature

- -30°C to +60°C

Salt Fog

- MIL-STD-810F

Shock/Vibration

- MIL-STD-810F

Altitude

- 30,000 ft, MIL-STD-810F

Sand/Dust

- MIL-STD-810F

Blowing Rain

- MIL-STD-810F

Humidity

- MIL-STD-810F

ACCESSORIES

A complete line of accessories to support the installed radios and Vehicle Adapters

SYSTEM COMPONENTS

Complete AN/PRC-148 System Elements:

- 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
- 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



Also available with MT-6352 mounting plate (MT-6352 not included)

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

Thales Communications, Inc.

22605 Gateway Center Drive | Clarksburg, MD 20871
Toll-Free: 1.800.258.4420 | Phone: 240.864.7000 | Fax: 240.864.7920
E-mail: Solutions@thalescomminc.com | Website: www.thalescomminc.com



2113:081210:V6