

# 50 Watt Low Profile Vehicle Adapter for the AN/PRC-148 JEM and PRC6809 Radios

Lowest Profile  
Vehicle Adapter for  
Space Constrained  
Installations



# 50 Watt Low Profile Vehicle Adapter

The compact, rugged Low Profile Vehicle Adapter (LPVA) provides 50 Watts of RF power amplification from 30–88 MHz and 20 Watts of RF power amplification from 89–512 MHz for the combat-proven AN/PRC-148 JEM and PRC6809 handheld radios. Providing extended range for the handheld radio in operation, this Low Profile Vehicle Adapter only weighs 10 pounds, and 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, without losing communications. The Removable Control Head with LCD display provides remote control of radio functions.



## Technical Specifications

### Key Features

- ▶ Contiguous 30–512 MHz Coverage
- ▶ 50 Watts Peak Envelope Power (PEP) RF Output 30–512 MHz
- ▶ Integrated Harmonic Filters
- ▶ Lowest Profile 50 Watt Vehicle Adapter for Space Constrained Installation
- ▶ Environmentally Rugged
- ▶ Removable Control Head for Full Function Remote Operations
- ▶ Cable-free Radio Dismount Capability in Less Than 2 Seconds

### Physical Parameters

#### Weight:

10 lb (without radio (4.53 kg))

15 lb with SINCGARS adapter tray and cabling (6.80 kg)

### Environmental Specifications

**Operating Temperature:** -31° to +60° C

**Storage Temperature:** -33° to +71° C

**Humidity:** 95% Non-condensing

**Rain, Shock/Vibration, Sand and Dust, Salt Fog:** MIL-STD-810G

**Altitude:** 30,000 feet, MIL-STD-810G

### Power Input

20 to 32 VDC

Maximum input power 240 watts

### RF Specifications

**RF Interface:** 50 Ohms

**FM Receive Sensitivity:** -116 dBm typical

**Output RF Power:** 50 watts -1/+2 dB from 30 to 88 MHz; 25 watts -1/+1 dB from 89 to 512 MHz

**Duty Cycle:** 100% operation at 600C; supports continuous operation for typical use

**EMI Compliance:** EMI/EMC MIL-STD-461 E

**TEMPEST Compliance:** NSTISSAM TEMPEST/1-92, Level II; NACSEM 5112

### Installations

SINCGARS MT-6352 mounting tray

Stand-alone vehicle installations

Separate cradle allows for separation from power amplifier

### Electrical Interfaces

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

### Mechanical Interfaces

MT-6352, MT-6352A

Specifications are subject to change without notice.

### Thales Defense & Security, Inc.

22605 Gateway Center Drive | Clarksburg, MD 20871  
TF+1.800.914.0303 | P: +1.240.864.7643  
solutions@thalesdsi.com | www.thalesdsi.com



2113:062020:V12

Thales has a policy of continuous development and improvement and consequently the equipment may vary from the description and specification in this document. This document may not be considered as a contract specification. Graphics do not indicate use or endorsement of the featured equipment or service. Copyright © 2020 Thales