

AN/VRC-113 50 Watt Cradle Vehicle Adapter for the **AN/PRC-148 JEM** and **PRC6809** Radios

Extended Radio Range for
Space Constrained Installations



AN/VRC-113 50 Watt Cradle Vehicle Adapter

The compact, rugged Cradle Vehicle Adapter (CVA) 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. The CVA provides extended range for the handheld radio in operation with a low profile weighing only 16 pounds with the radio installed, and can be easily integrated into air, land, and sea-based platforms. The CVA chassis provides interfaces for power sources, antennas, intercoms, and data devices. The front panel of the radio provides full function operations. The internal battery charger recharges the radio's Lithium-Ion battery. Users can dismount the radio from the CVA within two seconds – cable free, fully charged, and immediately operational.



Technical Specifications

Key Features

- ▶ Contiguous 30–512 MHz Coverage
 - 50 Watts RF Output 30–88 MHz
 - 20 Watts RF Output 89–512 MHz
- ▶ Integrated Harmonic Filters
- ▶ Low Profile for Space Constrained Installation
- ▶ Environmentally Rugged
- ▶ Full Function Radio Operations from Front Panel
- ▶ Cable-free Radio Dismount Capability in Less Than 2 Seconds

Physical Parameters

Power Amplifier

Height: 4.1 inches (10.41 cm)

Width: 7.5 inches (19.05 cm)

Depth: 11.6 inches (29.46 cm)

Cradle (without radio)

Height: 6.9 inches (17.53 cm)

Width: 5.0 inches (12.70 cm)

Depth: 3.1 inches (7.87 cm)

Weight: 12.15 lb (5511 g) (power amplifier with mtg bar, cradle with installation kit, and cables)

14.35 lb (650 g) (power amplifier with mtg bar, cradle with installation kit and cables), and radio (AN/PRC-148 and PRC6809, with battery and antenna)

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 from 30–88 MHz;
20 watts from 89–512 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/1-93, 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 (optional adapter tray required)

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



2116:062020:V13

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