

# 20 Watt Vehicle Adapter for the **AN/PRC-148 JEM** and **PRC6809** Radios

Unparalleled  
Rapid Radio  
Dismount Capability



# 20 Watt Vehicle Adapter

The compact, rugged Vehicle Adapter (VA) for the PRC-148 JEM and PRC6809 handheld radios provides 20 Watts of RF power amplification across the full 30–512 MHz frequency band. The VA opens up a broad range of secure and anti-jamming voice and data applications for the most advanced handheld radio in operation and can be easily integrated into air, land, and sea-based platforms. The VA chassis provides interfaces for power sources, antennas, intercoms, and data devices. The internal battery charger recharges the Lithium-Ion battery of the radio, allowing a user to dismount the radio from the VA fully charged and immediately operational. The Removable Control Head with LCD display provides remote control of all radio functions and includes a microphone and a connector for an audio accessory. A tunable 30–512 MHz co-site filter system, integrated within the chassis, reduces interference between co-located units. This greatly enhances the performance of two co-located VAs serving either as independent radios or as a repeater for forwarding the signals of compatible radios. Rapid, seamless transition from mounted to dismounted operations without losing communications.



## Technical Specifications

### Key Features

- Contiguous 30–512 MHz Coverage
- 20 Watt RF Output
- Integrated Tunable Harmonic and Co-site Filters
- Removable Control Head for Full Function Remote Operations
- Cable-free Radio Dismount Capability in Less Than 2 Seconds
- Supports and Maintains All Functionality of All Configurations of the 148 Single Channel Radios

### Physical Parameters

(with control head and radio with battery)

**Height:** 4.1 inches (10.4 cm)

**Width:** 7.0 inches (17.8 cm)

**Depth:** 13.4 inches (34.0 cm)

**Weight:** 13.0 pounds (5.9 kg)

### Environmental Specifications

**Operating Temperature:** -30° 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

### Reliability

(without radio installed)

**MTBF:** > 6,800 hours

**MTTR:** < 15 minutes

### COMSEC

Dependent on type of radio installed

### Removable Control Head (RCH)

Full radio control and status

Removable

Backlit display and keypad

Integrated microphone

Integrated audio jack (microphone, speaker, push-to-talk)

Push-to-talk switch

Squelch enable/disable

Up/Down volume control

Specifications are subject to change without notice.

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