



# TRI-ACDC-HVA-50

**Vehicle Adapter for the ANPR-148/JEM/AN-PRC-152 Rev B**



Radio sold separately or G.F.E.

## Description

The TRI-ACDC-HVA-50 vehicle adapter for the AN/PRC-148 and JTRS Enhanced MBITR (JEM), and the AN/PRC-152 Hand Held Radio provides 50 Watts of RF amplification across the frequency range of 30-512 MHz with receive gain in SATCOM mode.

MULTIBAND Operation with Dedicated SATCOM and LOS Antenna Ports . Bi-directional filtering minimizes co-site interference from nearby radios and provides extra margin needed to communicate in high RF environments. Automatic frequency selection in the SATCOM and LOS modes and dual antenna connections allow for quick and simple operation in any frequency range.

Trillium Research • 3347 S. West Shore Suite 5 • Tampa, FL 33629  
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Fax quote requests to 813.374.9982 Contract information 301.793.0477



Designed, engineered and manufactured in the United States

[www.rf.trilliumrsch.com](http://www.rf.trilliumrsch.com)

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Finally, a Portable Vehicle Adapter Kit for the AN/PRC-148, PRC-152 and the JTRS Enhanced MBITR (JEM) Handheld for Military Vehicle 24V/28V & 12V Civilian Vehicles, Aircraft, Shipboard, and TOC. Uninterruptible operation from any 9-36VDC power source or AC power source worldwide, including aircraft power. **Includes true Jerk and Run and battery charging operation.**

## Specifications

<b>Modulation</b>	<b>JITC DAMA, IW, HAVE QUICK and SINGARS Compatible AM, FM or Phase Modulation, AM/FM Frequency Hopping</b>	<b>Compatibility</b>	<b>AN-PRC-148 AN-PRC-152 JEM</b>
RF Input Power:	5 Watts (1-10 Watts typical)	Aux Output	26.5 VDC nominal output with a continuous current of 1 amp
RF Output Power SATCOM	10,15,25,35, 50 W Watts	Output Ripple	<50mV
RF Output Power LOS	25, 50 W CW/PEP	Output Protection	Continuous short circuit over-voltage, over temperature protection auto reset
Transmit SATCOM	292-318 MHz FM or Phase Modulation	Efficiency	Approx 97% for DC, 87% of AC input, across the voltage range
Transmit LOS	30-512 MHz with Automatic Frequency Detection	Operating Temp	-40°C to 71°C
Noise Figure SATCOM	3.5dB Typical	Size	6.91"H x 6.13"W x 9.70"L
Noise Figure	<3.5dB	Weight	12.1lbs (without radio)
Receive Gain	10dB	Accessories	6' DC power cable w/alligator clips, 6' AC power Cable with US NEMA 5-15P plug, and Operators manual
Input Voltage	85-270 VAC, 47-440 Hz single phase and/or 9-36VDC	DC Input Protection	MIL-STD-1275

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