

**RF-7800M-V150**  
**50-WATT MULTIBAND**  
**VEHICULAR AMPLIFIER**  
**ADAPTER (VAA)**

*A low-profile, high-  
efficiency VAA  
for the RF-7800M-MP  
manpack radio*

The RF-7800M-V150 is a 50-watt Vehicular Amplifier Adapter (VAA) for use with a separately procured RF-7800M-MP manpack radio. Designed for long-range applications and increased communications reliability, the RF-7800M-V150 provides 50 watts from 30 to 450 MHz and 20 watts from 450 MHz to 2 GHz, supporting both narrowband and wideband waveforms up to 5 MHz bandwidth.

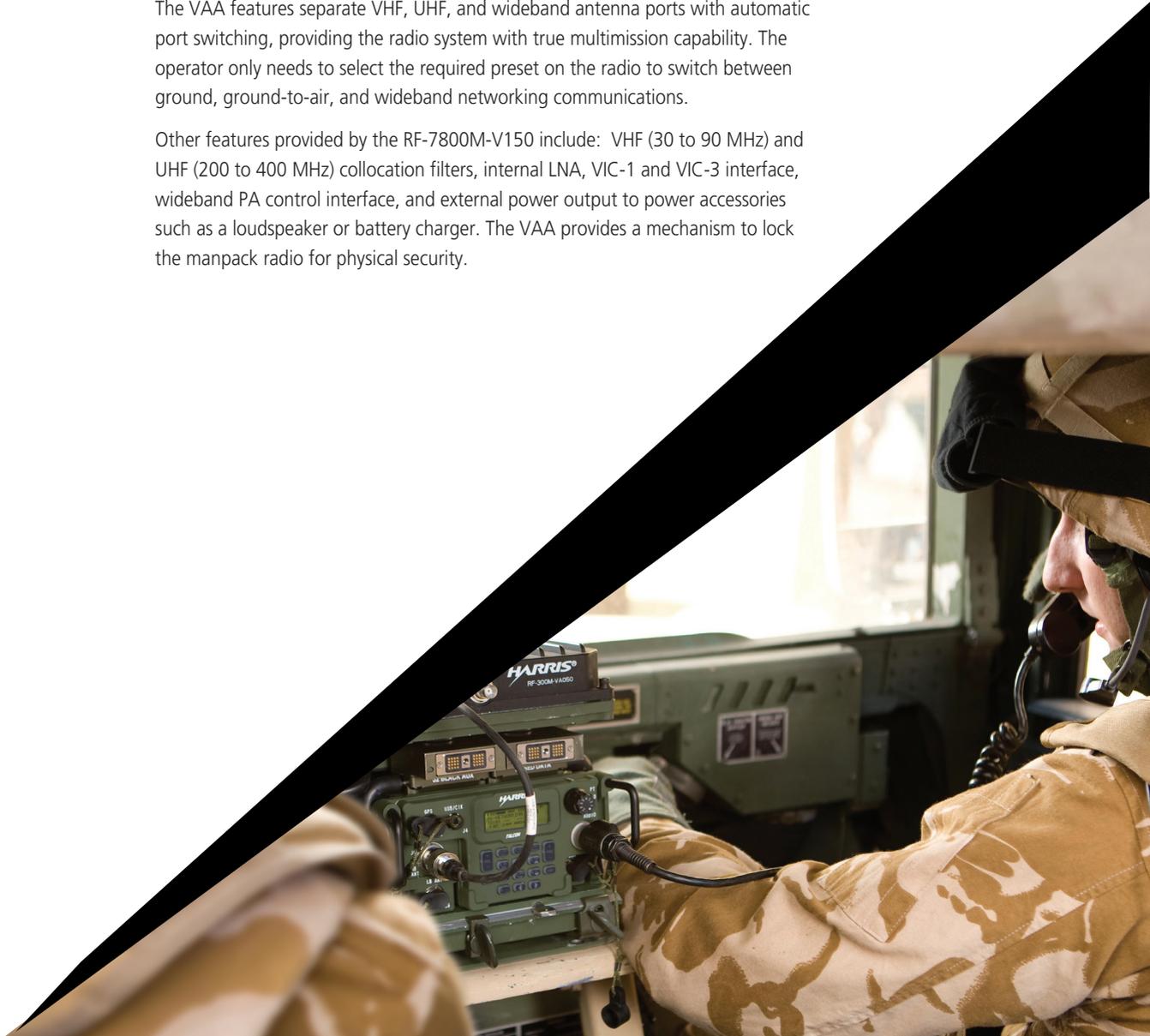
The single-unit VAA is extremely low-profile and can be deployed in multiple configurations, including as a single unit, or in a dual-unit configuration mounted in the Universal SINCGARS Interface Module (USIM).

The VAA features separate VHF, UHF, and wideband antenna ports with automatic port switching, providing the radio system with true multimission capability. The operator only needs to select the required preset on the radio to switch between ground, ground-to-air, and wideband networking communications.

Other features provided by the RF-7800M-V150 include: VHF (30 to 90 MHz) and UHF (200 to 400 MHz) collocation filters, internal LNA, VIC-1 and VIC-3 interface, wideband PA control interface, and external power output to power accessories such as a loudspeaker or battery charger. The VAA provides a mechanism to lock the manpack radio for physical security.



(Manpack not included)



## Specifications for the RF-7800M-V150

<b>General</b>	
<b>Frequency Range</b>	30 MHz-2 GHz
<b>Output Power</b>	VHF Low (30-90 MHz): 50 watts PEP
	VHF High/UHF (90-450 MHz): 50 watts PEP
	UHF (450-512 MHz): Greater than 20 watts PEP
	Wideband (225-450 MHz): 50 watts PEP and Average
	Wideband (450 MHz-2 GHz): 20 watts PEP
<b>Power Input</b>	18-34 VDC
<b>Channel Bandwidth</b>	5 kHz-5 MHz

<b>Physical</b> (including shock tray)	
<b>Height</b>	9.25 in. (23.5 cm)
<b>Depth</b>	14.5 in. (37 cm)
<b>Width</b>	10.5 in. (27 cm)
<b>Weight</b>	37 lbs. (16.8 kg) with radio
<b>Color</b>	CARC Green 383

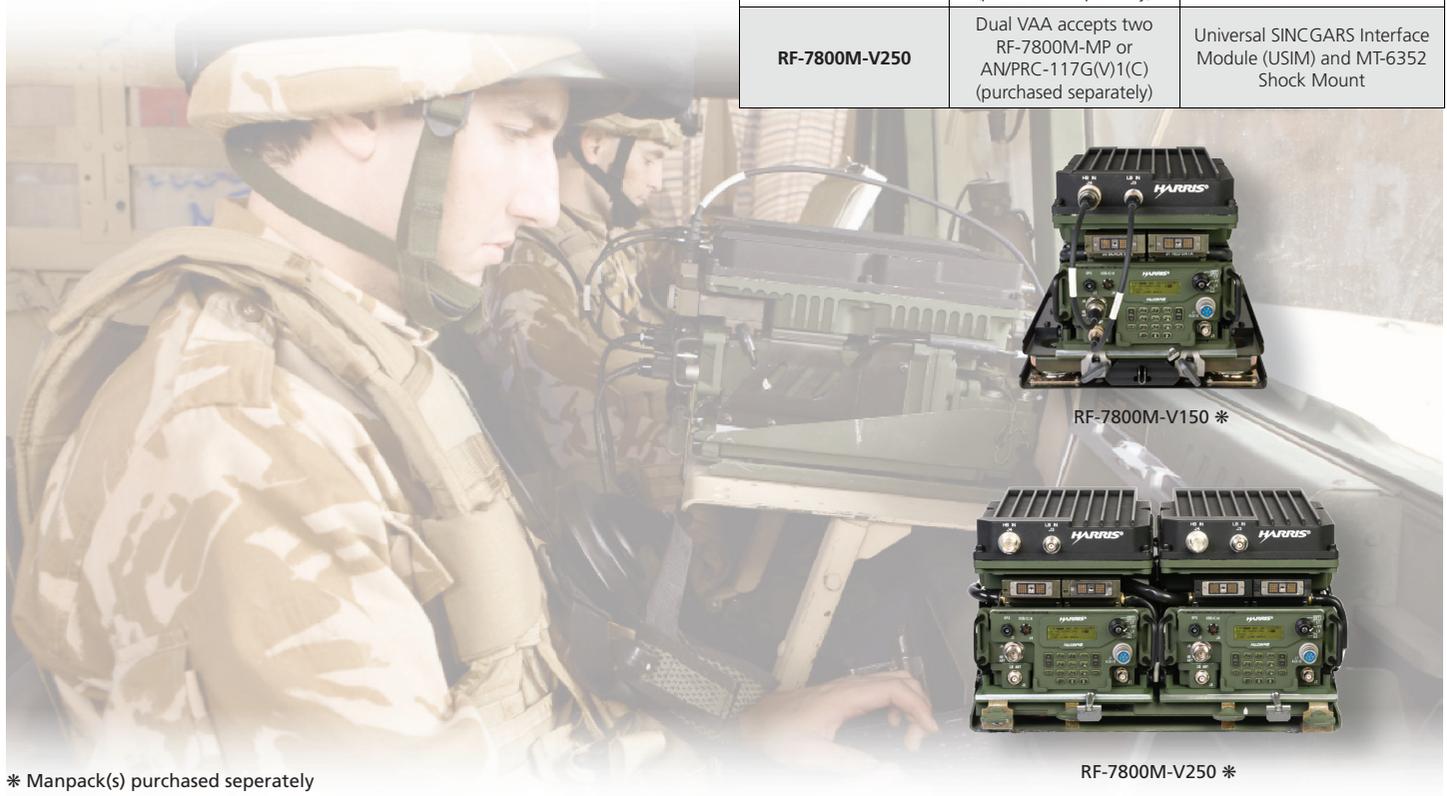
<b>Environmental</b>	
<b>Shock/Vibration</b>	MIL-STD-810F, ground mobile
<b>Sand/Dust</b>	MIL-STD-810F
<b>Immersion</b>	1 meter
<b>Temperature</b>	-40° to +70°C
<b>Altitude</b>	Operational to 15,000 ft.

<b>Interfaces</b>	
<b>Data Ethernet</b>	RS-232, EIA-422, PPP
<b>Remote Control</b>	USB, Ethernet, RS-232
<b>Audio</b>	VIC-1, VIC-3, LS-671 compatible
<b>Accessory Power</b>	28 VDC @ 0.2A, 5.6 W
<b>Antenna Ports</b>	VHF Low: 50 Ohm BNC
	VHF High/UHF: 50 Ohm BNC
	UHF SATCOM: 50 Ohm BNC
	Wideband: 50 Ohm N-Type

<b>Radio Compatibility</b>	
<b>RF-7800M-MP</b>	Multiband Networking Radio
<b>AN/PRC-117G</b>	Type-1 Wideband Multiband Radio

<b>Accessories</b>	
<b>RF-3183-AT013</b>	30-512 MHz Vehicular Antenna
<b>RF-3184-AT320</b>	225-450 MHz Vehicular Antenna (Wideband)
<b>RF-3186-AT320</b>	500-2000 MHz Vehicular Antenna
<b>RF-3187-AT320</b>	30-2000 MHz Vehicular Antenna
<b>12006-0017-02</b>	GPS Antenna L1 Band (use with RF-7800M-MP)
<b>RF-3071-AT230</b>	GPS Antenna L1/L2 Band (use with AN/PRC-117G)
<b>RF-292-01</b>	Antenna Mount

<b>Model Number</b>	<b>System Configuration</b>	<b>Mounting System</b>
<b>RF-7800M-V150</b>	Single VAA accepts one RF-7800M-MP or AN/PRC-117G(V)1(C) (purchased separately)	Vehicular Interface Mount (VIM)
<b>RF-7800M-V250</b>	Dual VAA accepts two RF-7800M-MP or AN/PRC-117G(V)1(C) (purchased separately)	Universal SINGGARS Interface Module (USIM) and MT-6352 Shock Mount



\* Manpack(s) purchased separately



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