

assured communications *

RF-300M-V150 **50-WATT MULTIBAND VEHICULAR AMPLIFIER** ADAPTER (VAA) (INCLUDING RF-300M-MP)



A high-efficiency VAA for the

Falcon® III Manpack radio in a

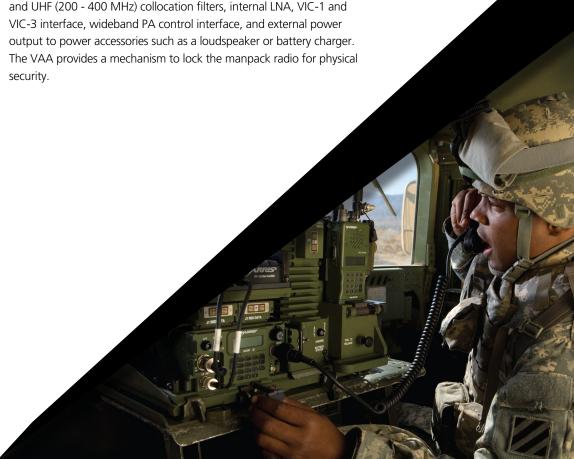
low-profile compact package

The Falcon® III RF-300M-V150 is a 50-watt vehicular amplifier adapter (VAA) that includes the the Falcon III RF-300M-MP manpack radio. Designed for long-range applications and increased communications reliability, the RF-300M-V150 provides 50 watts from 30 MHz to 450 MHz, 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, alongside a single channel VRC-110, or in a dual-unit configuration mounted in the Universal SINCGARS Interface Module (USIM).

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

Other features provided by the RF-300M-V150 include: VHF (30-90 Mhz) and UHF (200 - 400 MHz) collocation filters, internal LNA, VIC-1 and



Specifications for the RF-300M-V150

General

Frequency Range 30 MHz to 2 GHz

Output Power 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

Power Input 18 to 34 VDC Channel Bandwidth 5 kHz to 5 MHz

Physical (including shock tray)

 Height
 9.25 inches (23.5 cm)

 Depth
 14.5 inches (37 cm)

 Width
 10.5 inches (27 cm)

 Weight
 37 lbs. (16.8 kg) with radio

Color CARC Green 383

Environmental

Shock/Vibe MIL-STD-810F, ground mobile

Sand/Dust MIL-STD-810F Immersion 1 meter

Temperature -40°C to +70°C

Altitude Operational to 15,000 ft.

Interfaces

Data Ethernet RS-232, EIA-422, PPP Remote Control USB, Ethernet, RS-232

Audio VIC-1, VIC-3, LS-671 compatible

Accessory Power 28 VDC @ 0.2A, 5.6W
Antenna Ports VHF Low: 50 Ohm BNC

VHF High/UHF: 50 Ohm BNC UHF SATCOM: 50 Ohm BNC Wideband: 50 Ohm N-Type

Accessories

RF-3184-AT320

RF-3183-AT013 30-512 MHz Vehicular Antenna

225-450 MHz Vehicular Antenna (Wideband)

10511-0400-01 GPS Antenna Kit (L1 Band)

12006-9001-01 SATCOM Antenna RF-292-01 Antenna Mount

