

RF-5800M-V520

FALCON II® MULTIBAND POWER AMPLIFIER

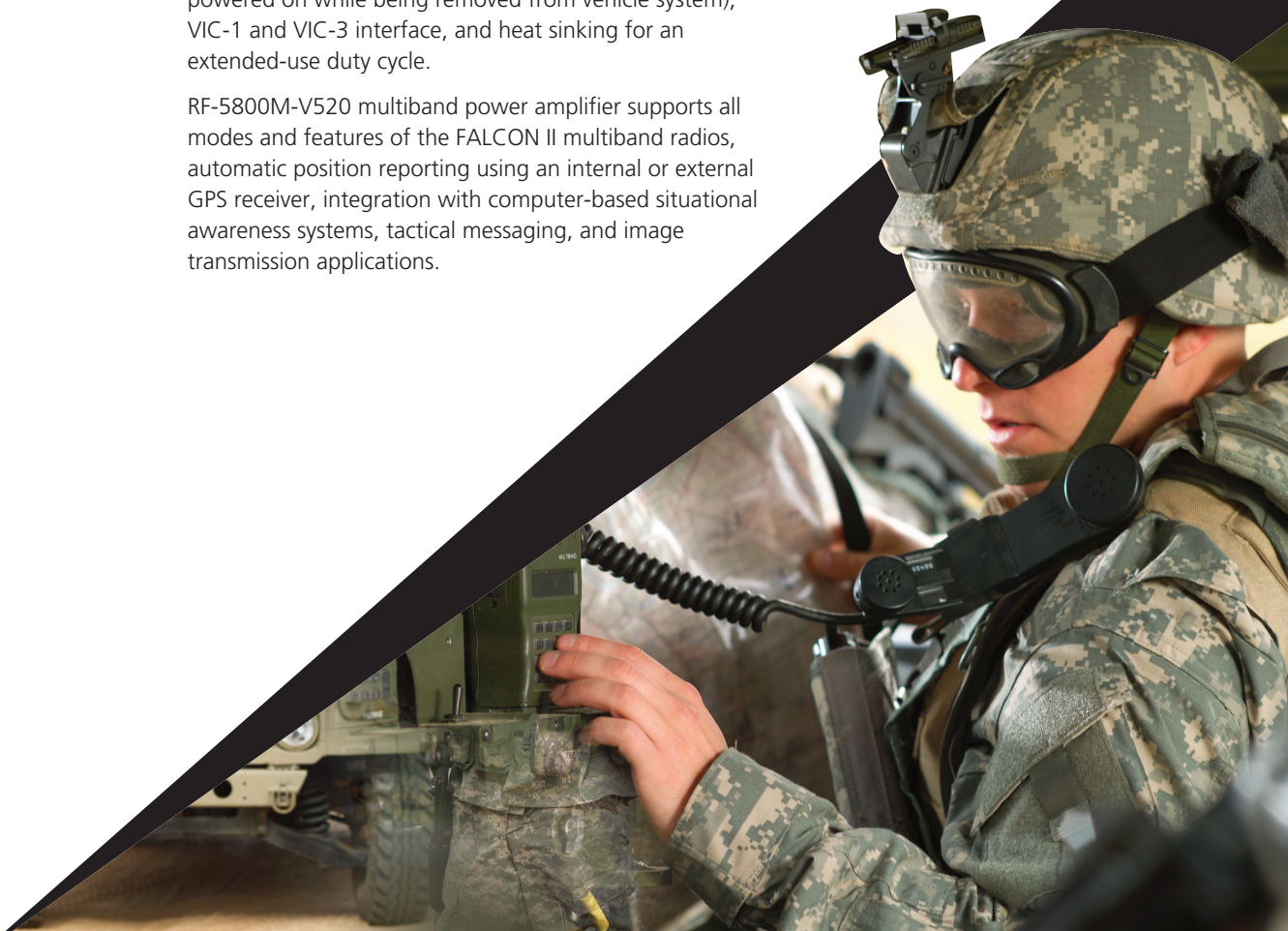
mobile
multimission
multiband
one radio

The RF-5800M-V520 is a high-performance, multiband vehicular or base station system for use with the RF-5800M-HH. For long-range applications and increased communications reliability, the RF-5800M-V520 provides 50W in the VHF band and 20W in the UHF band.

With automatic switching between antenna ports, the RF-5800M-V520 provides true multi-mission capability. The operator needs only to select the required net on the radio to switch between ground-to-ground, or ground-to-air, communications. The VHF antenna port provides 50W output for 30 to 90 MHz while the UHF antenna port provides 20W output from 90 to 512 MHz.

Other features provided by the RF-5800M-V520 include: an integrated handheld battery charger (battery remains attached to the radio) with simultaneous operation and charging, hot "jerk and run" (the handheld can remain powered on while being removed from vehicle system), VIC-1 and VIC-3 interface, and heat sinking for an extended-use duty cycle.

RF-5800M-V520 multiband power amplifier supports all modes and features of the FALCON II multiband radios, automatic position reporting using an internal or external GPS receiver, integration with computer-based situational awareness systems, tactical messaging, and image transmission applications.



Specifications for the RF-5800M-V520

General

Frequency Range	30-512 MHz
Input Power	20 to 32 VDC MIL-STD-1275 compliant
Dimensions	27.2 W x 19.3 H x 31.5 D cm
Weight	11.8 kg (without shock tray) 18.1 kg (with shock tray)
RF Output Impedance	50 ohms VHF/UHF, unbalanced
Collocation	9% frequency and 1.5M antenna separation
Finish/Color	CARC/Green

Transmit

Output Power	50 W: 30 to 90 MHz 20 W: 90 to 512 MHz
Harmonic Suppression	> 47 dBc typical
Spurious Suppression	> 50 dBc typical

Receive

FM Sensitivity	-112 dBm @ 12 dB SINAD
IF Rejection	> 60 dB

Environmental

Operating Temperature	-30°C to 60°C
Humidity	90% per MIL-STD-810
Shock/Vibration	Ground/Mobile per MIL-STD-810
Sand/Dust	MIL-STD-810

Compatibility

Multiband Handheld	RF-5800M-HH004 RF-5800M-HH104 (with GPS)
20M Multiband Handheld	RF-5800M-HH115
Intercom	AN/VIC-1 (V) AN/VIC-3 (V)
Speaker	Power and audio connectors available

Accessories

Shock Mount Interface Assembly	Included
AC/DC Power Supply	For vehicular and base station applications
Headset	Various
Tactical Accessory Bag	Holds radio and entire complement of equipment
System Installation and Maintenance Manual	Included
Adapter Block	Included
3.5 km Fieldwire Remote Control	Compatible
Ancillary Kit	Included
Data Cables	Wide variety of lengths
Fan Kit	11146-2027-01

Configurations

Vehicle Systems	RF-5800M-V520 RF-5800M-V521 (with GPS)
Base Station Systems	RF-5800M-B520 RF-5800M-B521 (with GPS)