

RF-5800V-MP

FALCON II®

VHF TACTICAL

RADIO SYSTEM



Reliable

The RF-5800V-MP is the VHF manpack member of the Falcon II® tactical radio family, providing continuous coverage in the 30 to 108 MHz frequency band.

tactical

The RF-5800V-MP is interoperable with the other Falcon II radios: the RF-5800V-HH VHF Handheld, the RF-5800H-MP HF/VHF Manpack, the RF-5800M-MP Multiband Manpack and the RF-5800M-HH Multiband Handheld.

secure

Voice communications are provided through the standard handset/headset connector or the audio interface for intercom systems. The standard 16 Kbps modem uses FSK modulation and is compatible with many legacy data communication systems while the optional high-speed modem supports rates up to 64 Kbps for added throughput and reduced on air time. Support of IP data capability simplifies network interfacing while ensuring reliable data communications. ECCM protects voice and data from hostile interference with the easy-to-use Harris Quicklook 1A/II waveforms.

The RF-5800V-MP advanced tactical network capability is unsurpassed. The industry standard PPP serial interface allows Internet-style services to be extended to the battlefield without any additional equipment. When used with the RF-6010 Tactical Network Access Hub, the mobile user can place and receive telephone calls directly from the radio.

The embedded Harris Citadel® II provides military-grade security or AES encryption for both voice and data transmissions. A customer-unique encryption algorithm is also available.

Designed for the modern soldier, the radio is packed with the most advanced capabilities available: tactical network configuration with the RF-6010, support of 64 Kbps data rates, automatic position reporting using an optional internal GPS receiver, IP data, integration with computer-based situational awareness systems, and a removable Keypad/Display Unit for total control during on the move operations.

The Harris VHF Manpack radio sets an unprecedented new standard for capabilities and versatility.



Specifications for the RF-5800V-MP

<i>General</i>	
Frequency Range	30-108 MHz
Input Power	26 VDC MIL-STD-1275 compliant
Net Presets	25
Dimensions	8.1 W x 18.3 H x 34.3 D cm (with battery)
Weight	3.6 kg (without batteries) 5.0 kg (with batteries)
RF Output Impedance	50 ohms VHF/UHF, unbalanced
Transmission Modes	FM Analog Voice FSK 16 Kbps CVSD Voice FSK 16 Kbps Data Trellis Coded Modulation 64 Kbps IP Data (option)
Color/Finish	Green/CARC

<i>Transmit</i>	
Output Power	1 W, 4 W, 10 W (user selectable)
Harmonic Suppression	> 50 dBc typical
Spurious Suppression	> 50 dBc typical

<i>Receive</i>	
FM Sensitivity	-118 dBm @ 10 dB SINAD
IF Rejection	> 80 dB

<i>Environmental</i>	
Operating Temperature	-40° to 70°C
Shock/Vibration	Ground/Mobile per MIL-STD-810
Immersion	1 M per MIL-STD-810

<i>Features</i>	
ECCM	Quicklook IA/II
Data Communications	64 Kbps DTE and IP Data Rate
SMS	Adaptive Learning
COMSEC	Citadel® II
GPS	Internal (option)
Data Interface	RS-232 SYNC/ASYN, PPP

<i>Accessories</i>	
H-250 Style Handset	Included
Battery Case	Included
Operators Manual	Included
KDU Remote Control Cable	Included
1 meter Tape Antenna	Included
Battery Charger	2-, 6-, 8-Bay Chargers
Fixed/Mobile Antennas	Numerous types
Data Cables	Wide variety of lengths
Remote Control	RF-5800R-RC
Radio Programming Application	PC-Based Application Software
TacChatIP	RF-6705
BB-Series Batteries	Various chemistries
Headsets	Numerous types
Tactical Network Access Hub	RF-6010
Backpacks/Soft Accessories	Numerous types

<i>Configurations</i>	
Vehicular Power Adapter	RF-5800V-V201