

RF-5800M-HH

FALCON II® MULTIBAND HANDHELD RADIO

Multimission multiband one radio

The RF-5800M-HH is a small, lightweight multiband handheld that extends the outstanding performance of the FALCON II® tactical radio family to the squad level. It provides continuous coverage in the 30 to 512 MHz frequency band. The RF-5800M-HH is interoperable with the other FALCON II radios: the RF-5800V-MP VHF Manpack, the RF-5800H-MP HF/VHF Manpack, the RF-5800M-MP Multiband Manpack, and the RF-5800V-HH VHF Handheld.

Voice communications are available through the built-in speaker/microphone, or through the standard headset connector. Automatic whisper sensitivity ensures that even quiet communication is clearly heard. Multimedia Data Communications are available through the side connector, enabling the radio to be seamlessly integrated into tactical data systems.

With CITADEL® encryption, Quicklook 1A, and the optional Talon or Havequick I / II ECCM, the RF-5800M-HH extends the security of the FALCON II family to the individual soldier for ground-to-ground and air-to-ground communications.

Advanced low-power circuitry and a high-capacity, rechargeable lithium-ion battery provide superior mission life. The selectable 5-watt RF output power is comparable to much larger manpack radios and increases communication range and reliability.

Designed for the modern warfighter, the radio is small and light, yet packed with the most advanced capabilities available: access to RF-6010 telephone systems through the radio keypad, 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-HH

General

Frequency Range	30 to 512 MHz (continuous)
Net Presets	25
Dimensions	23.1 H x 7.3 W x 6.1 D cm (with battery)
Weight	< 1 kg (with battery)
RF Output Impedance	50 ohms, unbalanced
Transmission Modes	FM/FSK/AM/ASK
Finish/Color	CARC/Green
Future Proof	Software-based radio

Transmit

Output Power	250 mW, 2 W, 5 W (user selectable)
Harmonic Suppression	> 47 dBc typical
Spurious Suppression	> 50 dBc typical

Receive

FM Sensitivity	-116 dBm @ 12 dB SINAD
Squelch	Selectable: off/noise/tone/digital
IF Rejection	> 65 dB

Environmental

Operating Temperature	-30° to 60°C -20° to 60°C (with battery)
Humidity	90% per MIL-STD-810
Immersion	2 meters per MIL-STD-810

Configurations

Dismounted Communication System	RF-5800M-DS001 RF-5800M-DS101 (with GPS)
Vehicular Power Amplifier/Adapter	RF-5800M-V520

Features

ECCM	Quicklook 1A Havequick I/II (option)
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Data Communications	16 Kbps DTE and IP data rate
SMS	Adaptive Learning
COMSEC	Citadel II
GPS	Internal (option)
Data Interface	RS-232 SYNC/ASYNC, PPP
Directed Calling	Private Radio-to-Radio Call

Accessories

30 to 108 MHz Whip Antenna	Included
Broadband Whip Antenna	Included
Operator's Card	Included
High-Capacity Lithium-Ion Rechargeable Battery	One included, additional available
Operator's Manual	Included
Vehicular Adapter	RF-5852 Adapter/Charger
Radio Programming Application	PC-based application software
Headset	Numerous types
Handset	H-250 style
Holster	Mollie/web compatible, numerous types
Data Cables	Wide variety of lengths
Tactical Accessory Bag	Holds radio and a complete complement of equipment
Soldier Antenna	RF-3162-AT001

