

## **RF-9820S-HH101**

### **Compact Team Radio**

The single-channel RF-9820S Compact Team Radio delivers robust voice and data capabilities for missions on the move. This multi-mission solution gives warfighters the flexibility of tactical MANET and legacy line-of-sight (LOS) capabilities.

The RF-9820S features a simplified user interface, allowing radio operation with minimal training time. Secure, reliable communications in contested and congested environments is supported with in-field upgrades to emerging wideband and narrowband resilient waveforms.

The Compact Team Radio is compatible with L3Harris AN/PRC-163 Multi-channel Handheld accessories and battery, reducing logistics support and allowing for easy kit-swapping among radios. MIL-STD ruggedized to withstand harsh conditions, this handheld is also SWaP-optimized to reduce warfighter burden.

The RF-9820S ensures connectivity with ground-based tactical teams by supporting multiple modes of operation, including wideband MANET and narrowband voice and PLI.



### **COMPACT, EASY-TO-USE, MULTI-MISSION SOLUTION**

#### **KEY BENEFITS**

- > Robust voice and data for missions on the move
- > Resilient communications in contested and congested environments
- > Simplified operation and compatibility with AN/PRC-163 batteries and accessories
- > Versatile operational modes include tactical MANET and legacy LOS

GENERAL	
RF Nomenclature	RF-9820S
Frequency Range	225 - 2600 MHz
Net Presets	13
Channel Spacing/Bandwidth	25 kHz - 40 MHz
GPS	Internal GPS
Management Tool	Windows®-based Communications Planning Application (CPA); WebMMI for network monitoring and management *TrellisWare™ Management Tool
Frequency Tuning	10 Hz

PHYSICAL	
Dimensions	3.8 H x 3.1 W x 1.7 D in (without battery) 9.6 H x 7.8 W x 4.3 D cm (without battery)
Volume (without battery)	18 in³ (295 cc)
Weight (without battery)	1 lbs (450 g)

TRANSMITTER	
Power Output	3.2 W
Spurious Suppression	Per TIA-603D
Harmonic Suppression	Per TIA-603D

RECEIVER	
Sensitivity	-116 dBm, 12 dB SINAD
Adjacent Channel Rejection	Per TIA-603D
Squelch	Noise or Tone

POWER	
RF-5833H-PA003	9 V to 17 VDC
RF-5833H-PA004	Rechargeable lithium-ion battery

OPTIONAL MODES AND WAVEFORMS	
Narrowband Waveforms	UHF Line of Sight (ULOS)
Waveforms	UHF Line of Sight (ULOS) Wraith™ *TSM™ 6.1 *TSM™ 6.2 Katana™
Voice and Data Modes	<b>Voice</b> Narrowband analog/PCM AM/FM Wideband 2400 bps MELPe  <b>Data</b> Wideband up to 16 Mbps

ENVIRONMENTAL	
Temperature	-22°F to 131°F (-30°C to +55°C)
Immersion	2 meters
Shock and Vibration	MIL-STD-810G
Sand/Dust/Salt/Fog/Rain	MIL-STD-810H
EMI/RFI	MIL-STD-461F

INTERFACES	
Data	USB 2.0, IP over USB
Audio	19-pin ADF, Audio, USB 2.0, fill
Antenna Port	50-ohm TNC
Programming	USB 2.0
Function Knob	OFF, ON, LD, Z, 14 presets
Remote Control	WebMMI

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