

RF-9820S

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 in ³ (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
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	Voice Narrowband analog/PCM AM/FM Wideband 2400 bps MELPe Data 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

*TrellisWare and TSM and TSM-X are registered trademarks of TrellisWare Technologies, Inc. in the United States and other countries.

RF-9820S

© 2025 L3Harris Technologies, Inc. | 04/2025 | L28901

NON-EXPORT CONTROLLED: THIS DOCUMENT CONSISTS OF INFORMATION THAT IS NOT DEFINED AS CONTROLLED TECHNICAL DATA UNDER ITAR PART 120.33 OR TECHNOLOGY UNDER EAR PART 772.

L3Harris Technologies is the Trusted Disruptor in the defense industry. With customers' mission-critical needs always in mind, our employees deliver end-to-end technology solutions connecting the space, air, land, sea and cyber domains in the interest of national security. Visit <u>L3Harris.com</u> for more information.



1025 W. NASA Boulevard Melbourne, FL 32919

L3Harris.com