



PRO5450™

Portable Radio

PRO5450 Portable Radio: The Practical Radio for MPT Systems

The PRO5450 radio is the simple two-way radio solution for professionals who need to stay in contact. The PRO5450 portable can increase productivity, keeping users communicating, while allowing them to concentrate on the job at hand. With the PRO5450 radio, communication couldn't be easier.

Signaling

The fully compliant MPT signaling package includes MPT1343, Regionet 43, and ANN modes of operation. Radios are configurable for up to 2 personalities including Talkgroup Select and Conventional mode.

Last Number Redial

Allows you to quickly redial talkgroups or users.

Missed Call Alert

The radio can store an incoming caller identity and prompt the user to return the call they receive.

Option Board Expandability

You can expand the capabilities of the PRO5450 radio by adding option boards such as Voice Storage.

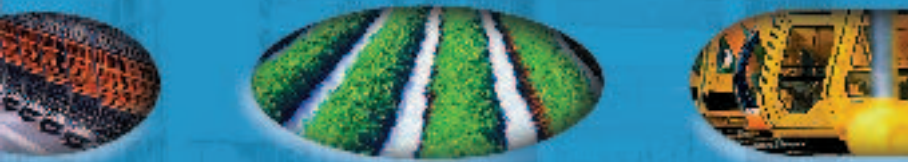
X-Pand™ Voice Compression and Low Level Expansion

Crisp, clear, and strong audio quality in virtually any noisy environment. Low level expansion allows further improvements in audio quality by reducing noise usually heard during pauses in conversation.

12.5/25 kHz Programmable Channel Spacing

Provides flexibility in deployment and stocking.

contact



control

Time-out Timer

Limits the amount of time a user has to continuously transmit on a channel. This allows for more efficient use of the channel.



As Dedicated As You Are

Professional Radio

PRO5450 Portable Two-Way Radio Specifications

general

SPECIFICATION	UHF
Dimensions With standard high-capacity NiMH battery; without clip	Height x Width x Depth 137 mm x 57.5 mm x 37.5 mm 5.40" x 2.26" x 1.50"
Weight (grams/ounces)	420 / 15
Power Supply	Rechargeable battery 7.5 Volts
Average Battery Life @ 5/5/90* Duty Cycle	11 hrs @ low power / 8 hrs @ high power
Model Number	LAH25RDC9CK3AN / LAH25SDC9CK3AN
Frequency Range	403-470 MHz / 450-527 MHz
Channel Spacing	12.5 / 20 / 25 kHz
Frequency Stability (-25°C to 55°C, 25°C Ref.)	±2.5 ppm

* 5% Receive, 5% Transmit, 90% Standby

transmitter

SPECIFICATION	UHF
RF Power Output	1-4 W
Modulation Limiting	±2.5 @ 12.5 kHz / ±4.0 @ 20 kHz / ±5.0 @ 25 kHz
FM Hum & Noise	-40 dB
Conducted / Radiated Emissions	-36 dBm (<1 GHz) / -30 dBm (>1 GHz)
Audio Response (0.3-3 kHz)	+1 to -3 dB
Audio Distortion (typical)	3%

receiver

SPECIFICATION	UHF
Sensitivity (12 dB SINAD) EIA (typical)	0.25 µV
Sensitivity (20 dB SINAD) ETS (typical)	0.50 µV
Intermodulation	70 dB
Adjacent Channel Selectivity	60 dB @ 12.5 kHz / 70dB @ 20 / 25 kHz
Spurious Rejection	70 dB
Rated Audio	0.5 W
Audio Distortion @ Rated Audio (typical)	3%
Hum and Noise	-45 dB @ 12.5 kHz / -50dB @ 20 / 25 kHz
Audio Response (0.3-3 kHz)	+1 to -3 dB
Conducted Spurious Emission Per FCC Part 15	-57 dBm<1 GHz -47 dBm>1 GHz

military standards

Applicable MIL-STD	810C		810D		810E	
	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2
Low Temperature	502.1	1	502.2	1,2	502.3	1,2
Temperature Shock	503.1	1	503.2	1	503.3	1
Solar Radiation	505.1	1	505.2	1	505.3	1
Rain	506.1	1,2	506.2	1,2	506.3	1,2
Humidity	507.1	2	507.2	2,3	507.3	2,3
Salt Fog	509.1	1	509.2	1	509.3	1
Dust	510.1	1	510.2	1	510.3	1
Vibration	514.2	7, 8,10	514.3	1	514.4	1
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4

Specifications subject to change without notice. All electrical specifications and methods refer to EIA/TIA 603 standards unless noted.




PRO5450 portable radio features

- Up to 16 Contact List Calls
- Dedicated Calls Using the Pre-Programmed Dedicated Call Button
- Last Number Redial
- Missed Call Return
- Call Diversion
- Emergency
- X-Pand Audio Enhancement
- MPT Talkgroup Mode
- Conventional/Talkaround Mode
- 12.5/25 kHz Switchable Channel Spacing
- Conventional Time-Out Timer
- Option Board Port

You can expand your radio's capabilities by plugging option boards into the internal port. Please check with your dealer for availability on specific option boards:

- Voice Storage (for Recording Brief Voice Messages)




Quality/Reliability

-  Motorola Accelerated Life Test
-  Two year warranty on radio parts and labor. One year warranty on all accessories includes antennas and microphones.
-  Military Standards MIL-STD 810 C, D, E

Contact your Motorola Representative today for more information.



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