



PRO7100™

Mobile Radios

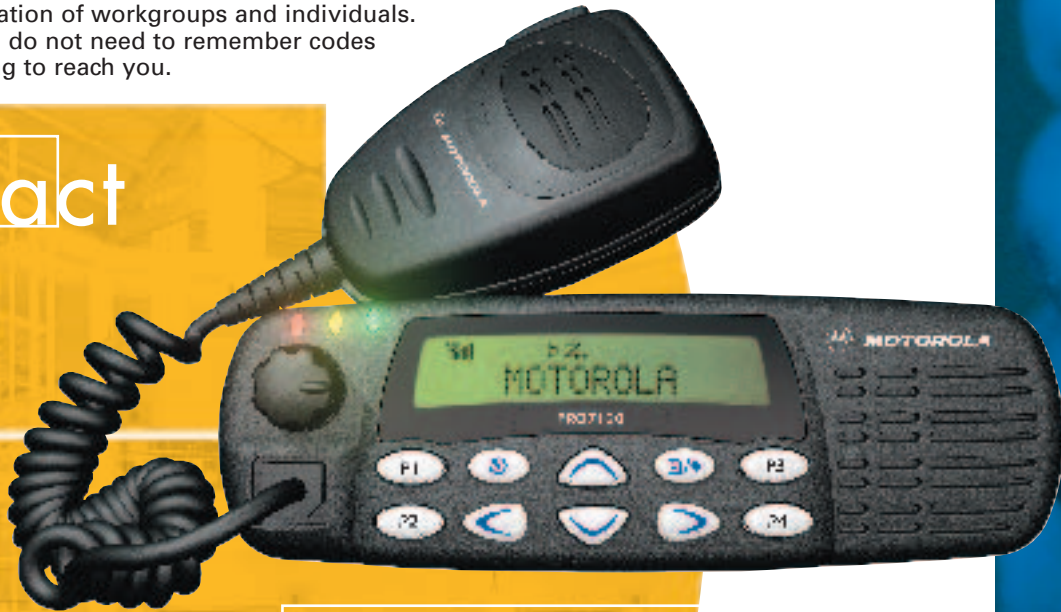
PRO7100 Mobile Radios: The Versatile Radio

For growing organizations, the flexible PRO7100 radio can easily expand to meet rapidly changing business needs. Its large 14 character alphanumeric display includes user-friendly icons that make information easier to understand. An extensive range of signaling capabilities lets you exchange text messages with your dispatcher to minimize channel usage and improve efficiency or discreetly signal for emergency help even when your vehicle is turned off. Optional features provide convenient hands-free operation and voice storage so you can record messages or personal memos. The versatility of the 128 channel PRO7100 mobile radio helps you keep productivity at its highest, no matter how fast your business grows.

Aliasing

Allows easy identification of workgroups and individuals. With this feature you do not need to remember codes or guess who is trying to reach you.

contact



control

Message / Status

For messages sent over and over again, this feature is used to make communications easier and more pleasant while assuring that the message is clearly understood. Preprogrammed messages can be easily sent with a single button press.

Scan List

Easily edit the contents of the scan list and modify or delete unwanted channels. Also, change the priority of the channels as your needs change.

Menu Navigation

Scroll through the menu to access many features offered with the radio and customize them to your specific needs. Choices include high / low power and tone tagging for specific callers, types of calls and / or messages received.

Zoning

Allows you to group channels into different zones. Each zone can be accessed by using the zone selection buttons.

As Dedicated As You Are

Professional Radio

PRO7100 Portable Two-Way Radio Specifications

general

SPECIFICATION	LOW POWER	HIGH POWER
Dimensions Low Power High Power	Length x Width x Height 186 mm x 179 mm x 59 mm 198 mm x 179 mm x 59 mm	
Weight	1.43 kg	1.65 kg
Current Drain (typical) Standby Receive @ Rated Audio 3W @ 22 Ω Internal Speaker @ Rated Audio 7.5 W @ 8 Ω External Speaker @ Rated Audio 13 W @ 3.2 Ω External Speaker Transmit	270 mA 600 mA 1.2 A 1.7 A 6 A @ 25 W / 9 A @ 45 W (VHF) / 40 W (UHF)	
Model Numbers	LAM25KHF9AA5_N LAM25KKF9AA5_N LAM25RHF9AA5_N	LAM25RKHF9AA5_N LAM25SHF9AA5_N LAM25SKF9AA5_N
Channel Spacing	2.5 / 20 / 25 kHz	
Frequency Range	VHF 136 - 174 MHz UHF 403 - 470 MHz UHF 450 - 527 MHz	VHF 136 - 174 MHz UHF 403 - 470 MHz UHF 450 - 520 MHz
Frequency Stability (-30°C + 60°C, +25°Ref.)	±2.5 ppm	

transmitter

SPECIFICATION	LOW POWER	HIGH POWER
Power Output	1 - 25 W	25 - 45 W (VHF) 25 - 40 W (UHF)
Modulation Limiting	±2.5 @ 12.5 kHz / ±4.0 @ 20 kHz / ±5.0 @ 25 kHz	
FM Hum & Noise (typical)	@12.5 kHz VHF -45 dB UHF -43 dB	@25 kHz VHF -50 dB UHF -48 dB
Conducted / Radiated Emissions	-36 dBm<1 GHz / -30 dBm>1 GHz	
Audio Response (0.3 - 3 kHz)	TIA 603	
Audio Distortion (typical)	2%	

receiver

SPECIFICATION	@ 12.5 kHz	@ 25 kHz
Sensitivity (12 dB SINAD) EIA (typical)	0.22 μV	
Intermodulation TIA 603	VHF 75 dB UHF 75 dB	VHF 78 dB UHF 75 dB
Adjacent Channel Selectivity TIA 603	VHF 65 dB UHF 65 dB	VHF 80 dB UHF 75 dB
Spurious Rejection	VHF 75 dB UHF 70 dB	VHF 80 dB UHF 75 dB
Rated Audio Internal Speaker External Speaker	3 W @ 22 Ω 7.5 W @ 8 Ω / 13 W @ 3.2 Ω	
Audio Distortion @ Rated Audio (typical)	2%	
Hum & Noise	-40 dB	-45 dB
Audio Response (0.3 - 3 kHz)	TIA 603	
Conducted Spurious Emission	-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	2	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	2	506.2	2	506.3	2
Humidity	507.1	2	507.2	2,3	507.3	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	8,10	514.3	1	514.4	1
Shock	516.2	1,5	516.3	1	516.4	1

Specifications subject to change without notice. All Electrical Specifications and methods refer to EIA/TIA 603 standards.

PRO7100 mobile radio features

- 128 Channels
- PTT-ID (encode/decode)
- Call Alert™ (encode/decode)
- Voice Selective Call (encode/decode)
- Radio Check (encode/decode)
- Message (encode/decode)
- Status (encode)
- Selective Radio Inhibit (decode)
- Emergency (encode)
- Quik-Call II Signaling (encode/decode)
- Zoning
- Monitor
- Dual Priority Scan
- 14-Character Alphanumeric Display
- Busy Channel Lockout
- Time-Out-Timer
- Nuisance Channel Delete
- Interchangeable Buttons
- CSQ / PL / DPL /Inv-DPL
- Option Board Port

Quality / Reliability



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

Contact your Motorola Representative now for more information.



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Visit our website at:
<http://www.motorola.com/radiosolutions>

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