



# PRO5100™

## Professional Mobile Radio



Ideal for organizations with standard communication requirements, Motorola's PRO5100 radio provides simple yet high-performing functionality.

The signaling capabilities enable you to call individuals or groups, identify the caller, notify others you are trying to reach them even when they are away from their vehicles, or send a request for help in emergency situations. Efficient and cost effective, LTR trunking gives you a wider calling range, faster channel access, greater privacy, and higher user and talkgroup capacity. The practical PRO5100 mobile radio offers a powerful package to help get the job done.

### Benefits

#### 15 Trunked Zones with 16 Talkgroups

Improve your efficiency with trunked operation for any LTR system.

#### MDC Signaling Features

Motorola's unique MDC signaling features include selective call and call alert. In addition, the PRO5100 mobile supports radio check, PTT-ID, and selective radio inhibit for efficient workgroup communication.

#### 14 Character Alphanumeric Display

Easy-to-understand icons provide feedback on status of features such as scan, high / low power and the strength of the received signal.

#### Dual Priority Scan

Use this feature for situations where you need to monitor one or two workgroups more often than the rest.

#### Escalart

When receiving a selective call or Call Alert™, the sound increases gradually until the call is answered.

#### Emergency Alarm

The radio can be programmed to give you a one button quick access to notify the dispatcher in an emergency situation.

#### Radio Check

Enables you to know if a radio is on the air and within the system's coverage without disturbing the user.

### Features

- 64 Conventional Channels
- 15 Trunked Zones (16 Talkgroups each)
- PTT-ID (encode/decode)
- Call Alert™ (encode / decode)
- Voice Selective Call (encode / decode)
- Radio Check (encode / decode)
- 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

General	Low Power	High Power	Low Band
Dimensions	Height x Width x Depth		
	186 mm x 179 mm x 59 mm	198 mm x 179 mm x 59 mm	250 mm x 179 mm x 60 mm
Weight	1.43 kg	1.65 kg	2.04 kg
Current Drain (typical)			
Standby			70 mA
Receive @ Rated Audio 3 W @ 22 Ω Internal Speaker			600 mA
@ Rated Audio 75 W @ 8 Ω External Speaker			1.2 A
@ Rated Audio Audio 13 W @ 3.2 Ω External Speaker			1.7 A
Transmit	6 A @ 25 W / 9 A @ 45 W (VHF) / 40 W (UHF) / 14A @ 60 W		
Model Numbers	LAM25KHD9AA2_N LAM25RHD9AA2_N LAM25SHD9AA2_N	LAM25KKD9AA2_N LAM25RKD9AA2_N LAM25SKD9AA2_N	LAM25BKD9AA2_N LAM25CKD9AA2_N LAM25DKD9AA2_N
Channel Spacing	12.5 / 20 / 25 kHz (Low Band 20 kHz only)		
Frequency Range / FCC Approval	VHF 136 - 174 MHz / AZ492FT3796 UHF 403 - 470 MHz / AZ492FT4835 UHF 450 - 520 MHz / AZ492FT4829	VHF 136 - 174 MHz / AZ492FT3795 UHF 403 - 470 MHz / AZ492FT4830 UHF 450 - 520 MHz / AZ492FT4836	29.7 - 36 MHz / AZ49FT1627 36 - 42 MHz / AZ492FT1628 42 - 50 MHz / AZ492FT1626
Frequency Stability (-30°C to +60°C, +25°C Ref.)	VHF / UHF: ±2.5 ppm LB: ±5 ppm		

Transmitter	Low Power	High Power	Low Band
Power Output	1 - 25 W	25 - 45 W (VHF) 25-40 W (UHF)	40 - 60 W
Modulation Limiting (Low Band 20 kHz only)	±2.5 @ 12.5 kHz / ±4.0 @ 20 kHz (VHF / UHF) ±5.0 @ 20 kHz (Low Band) / ±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	@20 kHz LB -40dB
Conducted/Radiated Emissions	-36 dBm < 1 GHz / -30 dBm > 1 GHz		
Audio Response (0.3 - 3 kHz)	TIA 603		
Audio Distortion (typical)	VHF / UHF: 2% LB: 3%		

RECEIVER	@ 12.5 kHz	@ 25 kHz	@ 20 kHz
Sensitivity (12 dB SINAD) EIA (typical)		0.22 μV	0.25 μV (typical)
Intermodulation	VHF 75 dB	VHF 78 dB	78 dB
TIA 603	UHF 75 dB	UHF 75 dB	(typical)
Adjacent Channel	VHF 65 dB	VHF 80 d	LB 80 dB
Selectivity TIA 603	UHF 65 dB	UHF 75 dB	(typical)
Spurious	VHF 75 dB	VHF 80 dB	LB 80 dB
Rejection	UHF 70 dB	UHF 75 dB	(typical)
Rated Audio Internal Speaker	3 W @ 22 Ω		
External Speaker	75 W @ 8 Ω / 13 W @ 3.2 Ω		
Audio Distortion @ Rated Audio (typical)	VHF / UHF: 2% LB: 3%		
Hum and Noise	-40 dB	-45 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 MILSTD	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.



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- Motorola Accelerated Life Test
- Military Standards MIL-SPECS 810 C, D, E
- Meets IP54 Standard
- Certified ISO 9001
- Nothing works like a Motorola Original Accessory