



*GM338•LS
PROFESSIONAL
MOBILE RADIO*

Smart Simplicity in Mobile Communications



WE HEAR YOU

From advanced audio technology to a large alphanumeric display, programmable channel spacing and more, mobile radio users around the world advised us what they need in a new generation mobile.

Introducing the GM338•LS professional mobile radio from Motorola.

Operating on the highly efficient UHF LTR Trunking Systems, the GM338•LS is ideal for organisations that require flexible and customised communications.

Applications include all transport operations, mining, government services, security operations and many more.

The GM338•LS ... We listened, and now everyone will hear you, loud and clear.

ENHANCE YOUR RADIO'S CAPABILITIES

A comprehensive range of accessories is available so that the radios can be customised to suit your needs. Adding the proper handset, speakers, microphones & mounting accessories can enhance your productivity. Motorola accessories are built with the highest quality standards and are specially engineered to assure maximum performance of your radio.

GM338•LS KEY FEATURES AND BENEFITS

ADVANCED AUDIO TECHNOLOGY

Motorola's special voice compression and low level expansion technology enables crisper, clearer and stronger audio quality, allowing you to communicate even in noisy environments.

15 TRUNKED ZONES (16 TALKGROUPS EACH)

Multiple talkgroup capacity offers up to 16 talkgroups per trunking zone enabling each team to communicate easily and discreetly. Four Customisable Function Buttons gives users the flexibility to assign their most useful operation to these specific buttons and label them with related icons.

14-CHARACTER ALPHANUMERIC DISPLAY WITH USER-FRIENDLY ICONS

Clearly identifies trunk zones, talkgroups, and conventional channels making information easy to read and to understand.

SWITCHABLE CHANNEL SPACING

Flexible and easy migration of channel spacing, protects your investment should your country's regulatory channel spacing requirement change.

LARGE CONTROL BUTTONS

The large control buttons allow users easy management of menu, navigation and exit functions.

REPEATER TALKAROUND

Freedom to communicate via a repeater for wide area coverage or bypass a repeater for unit-to-unit communication.

VOICE STORAGE

Records important messages or personal memos up to 120 seconds.

SYSTEM/ALL GROUP/AUTO GROUP SELECTIVE SCANNING

The 3 scan modes allow users to define the frequency and type of transmission your radio scans.

ADVANCED SIGNALLING

Enhanced MDC1200 Signalling (Encode/Decode) features on LTR.

CALL ALERT

An alert tone notifies the individual of incoming calls.

CALL ID

Identifies incoming callers.

SELECTIVE CALL

The radio sends and receives unique individual voice message for privacy, or group voice message for improved productivity.

RADIO CHECK

Auto check as whether radio is operating or within range.

ONE-YEAR WARRANTY

Each Motorola radio is backed by a 1-year warranty on radio parts and labour.

ACCELERATED LIFE TESTING

Motorola's Accelerated Life Testing simulates five years of use in real life.

MIL-STD 810C, D AND E

Tested and approved to U.S. Military standards for ruggedness and durability.

ISO 9001 STANDARD

Compliance with ISO 9001 Standard, an international quality system assurance on design, development, production, installation and servicing of a product.

RMN4026
Enhanced keypad
microphone



RLN4802
Remote mount kit



RLN4857
Push button
with remote PTT



RLN4856
Foot switch with
remote PTT



GENERAL

| | |
|----------------------------|---|
| * Frequency | 450-520 Mhz |
| Channel Capacity | Trunking zone capacity:15 Trunking talkgroup capacity: 16 Conventional channel capacity: 16 |
| Power Output | 1-25W |
| Power Supply | 13.2Vdc (10.8-15.6Vdc) |
| Dimensions (HxWxL) | 72mm x 185mm x 188mm |
| Weight | 1.43kg |
| Current Drain: | |
| Standby | 0.3A |
| Rx @ rated, external 8 ohm | 1.5A |
| Transmit | 8A @ 25W |
| Operating Temperature | -30 to +60 degC |
| Storage Temperature | -55 to +85 degC |

TRANSMITTER

| | |
|---|--|
| Channel Spacing | 12.5/20/25 kHz |
| Frequency Stability | +/- 2.5ppm |
| Modulation limiting | +/- 2.5kHz @ 12.5kHz +/-4.0 kHz @ 20kHz +/-5.0 kHz @ 25kHz |
| FM Hum & Noise | -40dB @ 12.5kHz -45dB @ 20/25kHz |
| Conducted/ Radiated Emissions | - 36dBm < 1 GHz - 30dBm > 1 GHz |
| Adjacent Channel Power | - 60dB @ 12.5kHz - 70dB @ 20/25kHz |
| Audio Response (from 6 dB/oct. Pre-Emphasis 300 to 3000Hz) | ETS300 & CEPT84 Annex 2 |
| Audio Distortion @ 1000Hz, 60% Rated max Deviation | 3% typical |

RECEIVER

| | |
|---|---|
| Sensitivity (12dB SINAD) | 0.30uV (0.22 uV typical) |
| Intermodulation | > 75dB |
| Adjacent Channel Selectivity | 75dB @ 25 kHz 70 dB @ 20 kHz 65 dB @ 12.5 kHz |
| Spurious Rejection | 75dB @ 20/25 kHz 70 dB @ 12.5 kHz |
| Rated Audio | 3W Internal 7.5W & 13W External |
| Audio Distortion @ rated audio Hum & Noise | 3% typical -40dB @ 12.5kHz -45dB @ 20/25kHz |
| Audio Response (from 6 dB/oct. Pre-Emphasis 300 to 3000Hz) | TIA 603 & ETS300 & CEPT84 Annex 2 |
| Conducted Spurious Emission | - 57dBm < 1 GHz - 47dBm > 1 GHz |

* Availability subject to country law and regulations / Specifications subject to change without notice.

All specifications shown are typical. Radios meet applicable regulatory requirements.

PORTABLE MILITARY STANDARDS 810C, D & E

810C

| Applicable MIL-STD | Methods | Procedures |
|--------------------|---------|------------|
| Low Pressure | 500.1 | 1 |
| High Temp | 501.1 | 1, 2 |
| Low Temp | 502.1 | 2 |
| Temp. Shock | 503.1 | 1 |
| Solar Radiation | 505.1 | 1 |
| Rain | 506.1 | 2 |
| Humidity | 507.1 | 2 |
| Salt Fog | 509.1 | 1 |
| Dust | 510.1 | 1 |
| Vibration | 514.2 | 8, 10 |
| Shock | 516.2 | 1, 2, 5 |

810D

| Applicable MIL-STD | Methods | Procedures |
|--------------------|---------|------------|
| Low Pressure | 500.2 | 1 |
| High Temp | 501.2 | 1, 2 |
| Low Temp | 502.2 | 1, 2 |
| Temp. Shock | 503.2 | 1 |
| Solar Radiation | 505.2 | 1 |
| Rain | 506.2 | 2 |
| Humidity | 507.2 | 2, 3 |
| Salt Fog | 509.2 | 1 |
| Dust | 510.2 | 1 |
| Vibration | 514.3 | 1 |
| Shock | 516.3 | 1 |

810E

| Applicable MIL-STD | Methods | Procedures |
|--------------------|---------|------------|
| Low Pressure | 500.3 | 2 |
| High Temp | 501.3 | 1, 2 |
| Low Temp | 502.3 | 1, 2 |
| Temp. Shock | 503.3 | 1 |
| Solar Radiation | 505.3 | 1 |
| Rain | 506.3 | 2 |
| Humidity | 507.3 | 3 |
| Salt Fog | 509.3 | 1 |
| Dust | 510.3 | 1 |
| Vibration | 514.4 | 1 |
| Shock | 516.4 | 1 |

For more information contact

Visit us at www.motorola.com.au



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One-Year Warranty

Each Motorola radio is backed by a one-year warranty on radio parts and labour.



Accelerated Life Testing
Motorola's Accelerated Life Testing simulates five years of hard use in real life, EIA RS-316B in Shock, Vibration, Dust, Humidity, IP54 for Sealing.



MIL-STD 810C, D and E
Stamp of approval from the U.S. Military for use in rough environments.



ISO 9001 Standard
Compliance with ISO 9001 Standard - an international quality system assurance on design, development, production, installation and servicing of a product.

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