

Portable Two-Way Radio

A8

Affordable and Simple to Use



Affordable Radio For Small Business

Trying to eliminate call cost from your communication? Look no further, the Mag One by Motorola A8 portable radio is the answer. Ideal for use in hotel, restaurant, retail, event management and service industries.



Mag One
by Motorola

motorola.com/radiosolutions

Key Attributes and Benefits



16 Channels
The 16 channels allow users to organize their work teams into different talk groups, increasing the efficiency of the radios.



Nuisance Channel Delete
Allows users to temporarily remove the unwanted calls in the scan list, enhancing the radio operational efficiency.



Private Line (PL) / Digital Private Line (DPL)
Set up talkgroup/users with unique PL/DPL to prevent unwanted conversations on the same frequency.



Low Battery Indicator
LED & low battery tone provide battery life status.



Repeater / Talkaround
Enables user point-to-point communication or via a repeater at the press of a button.



Monitor
Enables radio-user to listen to current channel as long as the Monitor button is pressed.



Scan
Allows users to monitor activities on different communication channels so that important messages will not be missed.



Sticky Permanent Monitor
Allows users to stay on monitor mode without consistently pressing the Monitor button.

A8™ PORTABLE TWO-WAY RADIO

| GENERAL | VHF | UHF |
|---|--|--|
| Dimensions H x W x D | 107 mm x 58 mm x 37 mm | |
| Weight | 350g / 13 oz | |
| Average Battery Life @ 5/5/90 Duty Cycle* Standard Capacity NiMH Battery | 8 hours | |
| Model Number | LAH84JDC8AA4AN LAH84KDC8AA4AN | LAH84QCC8AA4AN LAH84RCC8AA4AN |
| Frequency Range | 136-150MHz 150-174MHz | 403-425MHz 450-470MHz |
| Channel Spacing | 12.5 / 25 kHz | |
| Operating Temperature Range | -30° to +60°C | |
| Frequency Stability | ±2.5ppm | |
| FCC | 136-150MHz AZ489FT3809 150-174MHz AZ489FT3810 | 403-425MHz AZ489FT4872 450-470MHz AZ489FT4873 |

*5% receive, 5% transmit, 90% stability

| TRANSMITTER | VHF | UHF |
|-----------------------------|-------------------------------------|----------|
| RF Power Output | High Power 5W Low Power 1W | 4W 1W |
| Spurs and Harmonics | -63dBc (-26Bm @ 5W) (-27dBm @ 4W) | |
| FM Hum & Noise | -40dB | |
| Modulation Limiting | ±2.5kHz @ 12.5kHz / ±5kHz @ 25kHz | |
| Audio Response (0.3 - 3kHz) | +1 to -3dBΩ | |
| Audio Distortion | 5% | |

| RECEIVER | VHF | UHF |
|-------------------------------|---------------------------------|--------|
| Sensitivity | 0.25 μV | 0.3 μV |
| Selectivity | -65dB @ 25kHz / -60dB @ 12.5kHz | |
| Intermodulation | 65dB @ 25kHz / -60dB @ 12.5kHz | |
| Spurious Rejection | 65dB | |
| Audio Output @ <5% Distortion | 500mW | |
| Audio Distortion | <5% | |
| Hum and Noise | -40dB | |
| Conducted Emission | -57dBm | |

MILITARY STANDARDS 810 C, D, E AND F

| Applicable MIL-STD | 810 C | | 810 D | | 810E | | 810F | |
|--------------------|---------|------------|---------|------------|---------|------------|---------|------------|
| | Methods | Procedures | Methods | Procedures | Methods | Procedures | Methods | Procedures |
| High Temperature | 501.1 | 1 | 501.2 | 1 | 501.3 | 1 | 501.4 | 1 |
| Low Temperature | 502.1 | 1 | 502.2 | 1, 2 | 502.3 | 1, 2 | 502.4 | 1, 2 |
| Temperature Shock | 503.1 | 1 | 503.2 | 1 | 503.3 | 1 | 503.4 | 1 |
| Solar Radiation | 505.1 | 1 | 505.2 | 1 | 505.3 | 1 | 505.4 | 1 |
| Humidity | 507.1 | 2 | 507.2 | 2, 3 | 507.3 | 2, 3 | 507.4 | 3 |
| Salt Fog | 509.1 | 1 | 509.2 | 1 | 509.3 | 1 | 509.4 | 1 |
| Dust | 510.1 | 1 | 510.2 | 1 | 510.3 | 1 | 510.4 | 1 |
| Vibration | 514.2 | 8, 10 | 514.3 | 1 | 514.4 | 1 | 514.5 | 1 |

All specifications shown are typical and subject to change without notice. All electrical specifications and methods refer to EIA/TIA 603 standards.

LE-A8-T1

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Audio Accessories

Choose from a variety of Mag One audio accessories to expand the capabilities of your A8 radio to fit your business needs.

Mag One

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Audio Accessories

- Audio accessories offer convenience without removing the radio from your belt.
- Comfortable earpieces and headsets mute the internal radio speaker while channeling the audio directly to your ear, so you can monitor transmissions clearly and privately.

- **PMMN4008**
Remote Speaker Microphone



- **PMLN4442**
Earbud with in-line Microphone and PTT switch



- **PMLN4443**
Ear Receiver with in-line Microphone and PTT switch



- **PMLN4445**
Ultra lightweight headset with in-line PTT switch



- **PMLN4294**
Earbud with Microphone & PTT Combined



Mag One

Contact your local dealer for a complete list of Accessories at motorola.com/radiosolutions