

Mag One X8d portable radio

Designed for dynamic business operations



The Mag One X8d serves as a robust and high-performing communication tool for your professional teams. Whether managing retail settings, organizing large-scale events, or overseeing campus activities, the X8d ensures your personnel maintain clear, dependable connectivity, critical when every moment counts.

→ Take control

Providing 23 hours of talk time, the X8d is engineered to last beyond a typical work shift. Additionally, its USB-C port allows for convenient charging using a standard USB charger.

→ Listen up

With its 3-watt maximum audio power output, the X8d delivers exceptionally loud and clear audio, ensuring messages cut through noisy environments.





Built to conquer the workday

Designed for a connected workforce, the X8d offers enhanced range performance for clear communication across broad areas. With an IP55 rating, it's built to withstand the demands of an active workday, and supports 64 channels for flexible communication.

Product Features

GENERAL
Analog and digital
DMR standards compliant ¹
64 channels
USB-C (charging and programming)
2 programmable buttons
Voice announcements
Custom channel announcements
Dual priority scan
Nuisance Channel Delete
Voice Operated Transmission (VOX)
IP55 dust and water ingress protection

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Enhanced audio power

Transmit Noise suppression

SAFETY

Remote monitor

Radio disable / enable

SYSTEM

Dual-capacity direct mode1

ANALOG FEATURES

Analog scrambling

¹ Digital feature



Specifications

FREQUENCY		400 - 470 MHZ		
Typical RF output				
High power		4 W		
Low Power		1 W		
Channel capacity		64 channels		
Channel spacing		12.5 / 25.0 kHz		
Dimension ¹ (H x W x D) with battery		120 x 55 x 33.5 mm		
Weight with battery, antenna, belt clip		300 g		
Power supply (Nominal)		7.2 V		
Battery life ² (analog / digital)		16 hours / 23 hours		
Digital technology		Time Division Multiple Access (TDMA)		
TRANSMITTER SPECIFICATIONS				
4FSK digital modulation		12.5 kHz Data: 7K60F1D and 7K60FXD 12.5 kHz Voice: 7K60F1E and 7K60FXE Combination: 7K60F1W		
Digital protocol		ETSI TS 102 361-1, -2, -3		
Conducted / radiated spurious emissions (TIA603E)		< -36 dBm for < 1 GHz ; < -30 dBm for > 1 GHz		
Adjacent channel power		> 60 dB @ 12.5 kHz / >70 dB @ 25 kHz		
Frequency stability		± 1.5 ppm		
Modulation limiting		± 2.5 kHz @ 12.5 kHz / ± 5.0 kHz @ 25 kHz		
RECEIVER SPECIFICATIONS				
Analog sensitivity (12dB SINAD)		0.18 μV (typical)		
Digital sensitivity (5% BER)		0.18 μV (typical)		
Conducted / radiated spurious emissions (TIA603E)		< -57 dBm for < 1 GHz ; < -47 dBm for > 1 GHz		
Intermodulation (TIA603E)	> 65 dB			
Adjacent channel selectivity (TIA603A)-1T		> 60 dB @ 12.5 kHz / > 70 dB @ 25 kHz		
Spurious Rejection (TIA603D)		> 70 dB		
Frequency stability		± 1.5 ppm		
AUDIO SPECIFICATIONS		ENVIRONMENTAL SPECIFICATIONS		
Audio output power (Rated / Max)	1 W / 3 W	Operating temperature ³	-30 °C to 60 °C	
Audio distortion at rated power	3% (typical)	Storage temperature	-40 °C to 85 °C	
Hum and noise	-40 dB @ 12.5 kHz /	Electrostatic discharge	IEC 61000-4-2 Level 4	
Tium and noise	-45 dB @ 25 kHz	Dust and water intrusion	IEC60529 IP55	



¹ Dimensions at grip area.

² Typical battery life, 5/5/90 profile at maximum transmitter power. Actual observed runtimes may vary.

 $^{^{\}rm 3}$ Temperature listed are for radio specification. Li-Ion battery discharge: -20 $^{\circ}$ C to +60 $^{\circ}$ C.



To learn more, visit: motorolasolutions.com/x8d



Motorola Solutions Singapore Pte. Ltd., 80 Pasir Panjang Road #18-81, Mapletree Business City, Singapore 117372

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