

# Mag One X10d

Portable Radio

Built for the fast-paced world of business



**MOTOROLA** SOLUTIONS



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## Built for the fast-paced world of business

The X10d is a versatile, high-performing companion to your businessworkforce. Whether managing a retail store, coordinating events or overseeing campus activity, the X10d connects your team with static-free, reliable communication – in a world where every second counts.

- → A radio this versatile should able to keep up. With 23 hours of talk time, your radio should last an entire shift and then some. But just in case, the USB-C port also lets you charge your radio with an ordinary USB charger.
- → With its 3-watt maximum audio power output, the X10d is the loudest radio in the Mag One family. Noise cancellation means clear audio, even in a noisy environment.
- → With features like a dedicated emergency button, Lone Worker and remote monitoring, the X10d helps protect you and your staff.





### Ready to work

A connected workforce makes for smooth operations; with improved range performance, your team enjoys clear communication across a wide expanse. And at IP55, the X10d can handle the wear-and-tear of a high-energy workday.

#### **Product Features**

Analog and digital  DMR standards compliant¹  64 channels  USB-C (charging and programming)  3 programmable buttons  Voice announcements  Custom channel announcements  Voice recording¹ (8 hours)  Dual priority scan  Nuisance channel delete  Voice operation transmission (VOX)
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Voice announcements  Custom channel announcements  Voice recording¹ (8 hours)  Dual priority scan  Nuisance channel delete
Custom channel announcements  Voice recording¹ (8 hours)  Dual priority scan  Nuisance channel delete
Voice recording¹ (8 hours)  Dual priority scan  Nuisance channel delete
Dual priority scan  Nuisance channel delete
Nuisance channel delete
Voice operation transmission (VOX)
voice operation transmission (vox)
IP55 dust and water ingress protection
Rugged to MIL-STD 810

AUDIO

Enhanced audio power

Noise cancellation

#### **SAFETY**

Emergency alert1

Lone worker<sup>1</sup>

Remote monitor

Radio disable / enable

#### **SYSTEM**

Dual-capacity direct mode1

#### **ANALOG FEATURES**

Analog scrambling

<sup>&</sup>lt;sup>1</sup> Digital feature



#### **Specifications**

FREQUENCY	400 - 470 MHZ	400 - 470 MHZ 450 - 527 MHZ						
Typical RF output								
High power	4 W	4 W	5 W					
Medium power		2.5 W						
Low Power		1 W						
Channel capacity	64 channels							
Channel spacing	12.5 / 25.0 kHz							
Dimension <sup>1</sup> (H x W x D) with battery	122 x 54 x 30 mm							
Weight with battery, antenna, belt clip	300 g							
Battery life² (analog / digital)	16 hours / 23 hours							
Power supply (Nominal)		7.2 V						

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	
Digital vocoder type	AMBE+2
Audio output power (Rated / Max)	1 W / 3 W
Audio distortion at rated power	3% (typical)
Hum and noise	-40 dB @ 12.5 kHz / -45 dB @ 25 kHz

ENVIRONMENTAL SPECIFICATIONS							
Operating temperature <sup>3</sup>	-30 °C to 60 °C						
Storage temperature	-40 °C to 85 °C						
Temperature shock	Per MIL-STD 810C, D, E, F, G, H						
Humidity	Per MIL-STD 810C, D, E, F, G, H						
Electrostatic discharge	IEC 61000-4-2 Level 4						
Dust and water intrusion	IEC60529 IP55						
Salt fog	Per MIL-STD 810C, D, E, F, G, H						

 $<sup>^3</sup>$  Temperature listed are for radio specification. Li-lon battery discharge: -20°C to +60°C.



<sup>&</sup>lt;sup>1</sup> Dimensions at grip area.

 $<sup>^{2}</sup>$  Typical battery life, 5/5/90 profile at maximum transmitter power. Actual observed runtimes may vary.

MILITARY STANDARDS (MIL-STD 810)												
	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F		MIL-STD 810G		MIL-STD 810H	
	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE
Low pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.6	II	500.6	II
High temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/HOT, II/ HOT	501.5	I/A1, II/A2	501.7	I/A1, II/A1
Low temperature	502.1	I	502.2	I, II	502.3	I, II	502.4	I, II	502.5	1, 11	502.7	I, II
Temperature shock	503.1	I	503.2	A1/C3	503.3	A1/C3	503.4	1	503.5	I/C	503.7	I/C
Solar radiation	505.1	II	505.2	I/A1	505.3	I/A1	505.4	I/A1	505.5	I/A1	505.7	I/A1
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.5	1, 111	506.6	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-	507.5	II/Aggravated	507.6	II/Aggravated
Salt fog	509.1	ı	509.2	I	509.3	ı	509.4	_	509.5	_	509.7	_
Blowing dust and sand	510.1	I/-	510.2	I, II	510.3	I, II	510.4	I, II	510.6	1, 11	510.7	I, II
Vibration	514.2	VIII/F, W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	1/24, 11/5	514.6	1/24, 11/5	514.8	1/24, 11/5
Shock	516.2	1, 11	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.7	I, IV	516.8	I, IV
Contamination by fluids	l								504.2	II	504.3	2.2.6 b

To learn more, visit: motorolasolutions.com/x10d



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This product is only available in Latin America and the Caribbean region.