

# Mag One™ by Motorola BPR™ 40

## Affordable and Reliable Radio for Small Business

### 8 or 16 Channels

Allows multiple users and groups to communicate. Organize teams into different talkgroups for improved efficiency.

### Small and Lightweight

Only 4.21 inches high. And over 14% lighter with a Li-ion battery.

- 9.5 oz with Li-ion battery
- 11.08 oz with NiMH battery

### Squelch Levels

Helps minimize interference from undesired weak signals and helps weak signals be heard.

### Tricolor LED

Indicates radio status and battery levels at a glance.

### Large, Textured Push-to-Talk Button

Easy to find and use without looking.

### Single Priority Scan

Frequently scans higher priority channels.

### Large Rotary Channel Selector

Allows you to change channels easily.

### On/Off and Volume Control

Large size lets you adjust the volume quickly.

### Adjustable Power Level

Helps save battery life. Adjusts transmit power to accommodate user environment.

### Rugged, Die-Cast Chassis

Polycarbonate housing provides greater protection.

### 2 Programmable Buttons

Easy access to favorite features. Program up to four settings from these 12 features:

- High/Low Power
- Volume Set
- Monitor
- Sticky Monitor
- Scan
- Nuisance Channel Delete
- Repeater Talkaround
- PL/DPL
- Button Lock
- Battery Save Mode
- Squelch
- Customized Feature

### Standard Package:

- Radio – Ships at 1 Watt
- 1200 mAh NiMH Battery or 1500 mAh Li-ion Battery
- Rapid-rate Charger
- 2 Inch Spring Belt Clip
- Antenna
- Operating Manual
- Safety Manual
- 1-Year Limited Radio Warranty



## Mag One by Motorola BPR 40

An affordable, high-performance communication tool that is a reliable solution for your communication needs. When you equip your work force with the BPR 40, they will be able to react more efficiently. Quicker response, better customer service, saved trips, and increased safety – they all add up to better operations and a streamlined process.

The Mag One by Motorola BPR 40 two-way radio not only provides affordable communication, but also a complete assortment of tested and certified accessories to customize your radio solution. And it's backed by Motorola service and a 1-year limited radio warranty\*.

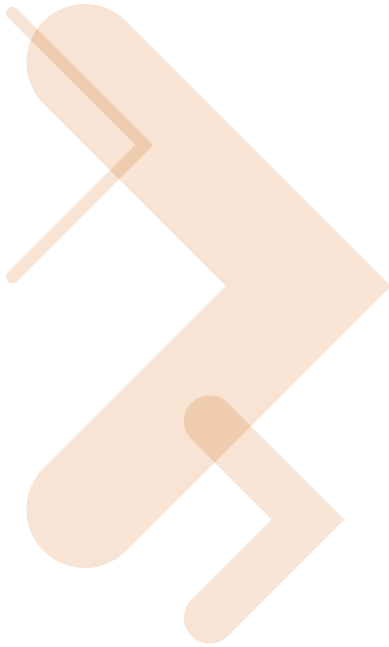
\*6 month limited warranty on accessories.

### It's a little radio with a big list of features:

- 8 or 16 channels for wider group coverage
- 2 programmable buttons for easy access to frequently used features
- 12 programmable features to choose from including a customized feature of your choice
- Small size and lightweight
- High/Low power settings for varied situations
- Affordably priced
- Designed for education, hospitality, retail and light construction markets
- Mag One accessories enhance the value and effectiveness of your radio
- Backed by Motorola service and a one-year limited warranty

## SPECIFICATION SHEET

### BPR 40 Two-Way Portable Radio Typical Specifications



GENERAL SPECIFICATIONS		
	VHF	UHF
Channel Capacity	8 or 16	8 or 16
Model Numbers (8 channel)	AAH84KDS8AA1_N	AAH84KDS8AA1_N
Model Numbers (16 channel)	AAH84KDJ8AA1_N	AAH84RCJ8AA1_N
FCC Designation	AZ489FT3810	AZ489FT4873
FCC Emissions Designators	11K0F3E/16K0F3E	11K0F3E/16K0F3E
Dimensions (H x W x L)	4.21 x 2.28 x 1.46 inches (107 x 58 x 37 mm)	
Weight (with NiMH/Li-ion)	11.08 ounces (314 g)/9.52 ounces (270 g)	
Average Battery Life @ 5-5-90 Duty Cycle <sup>1</sup>	Up to 8 hours Up to 11 hours	
High Power (5W/4W)		
Low Power (1W)		

TRANSMITTER		
	VHF	UHF
Frequency Range	150-174 MHz	450-470 MHz
Channel Spacing	12.5/25 kHz	12.5/25 kHz
RF Output	1 to 5W	1 to 4W
Frequency Stability <sup>2</sup>	±2.5 ppm	±2.5 ppm
Spurs and Harmonics	-63 dBc (-26 Bm)	-63 dBc (-27 Bm)
FM Hum and Noise Radio <sup>2</sup> (12.5/25 kHz)	40 dB	40 dB
Modulation Limiting <sup>2</sup> (12.5/25 kHz)	±2.5 kHz / ±5 kHz	±2.5 kHz / ±5 kHz
Audio Response (0.3-3 kHz) <sup>2</sup>	+1 to -3 dB	+1 to -3 dB
Audio Distortion <sup>2</sup>	5%	5%

RECEIVER		
	VHF	UHF
Frequency Range	150-174 MHz	450-470 MHz
Channel Spacing	12.5/25 kHz	12.5/25 kHz
Sensitivity <sup>2</sup> (12 dB SINAD)	<-119 dBm (.25uV)	<-117.5 dBm (.3uV)
Adjacent Channel Selectivity <sup>2</sup> (12.5/25 kHz)	-60 dB / -65 dB	-60 dB / -65 dB
Intermodulation <sup>2</sup> (12.5/25 kHz)	-60 dB / -65 dB	-60 dB / -65 dB
Spurious Rejection <sup>2</sup>	65 dB	65 dB
Audio Distortion <sup>2</sup>	<5%	<5%
Hum and Noise Radio <sup>2</sup> (12.5/25 kHz)	40 dB	40 dB
Conducted Emission	-57 dBm	-57 dBm
Audio Output @ <5% Distortion <sup>2</sup>	500mW (at 24 ohm)	500mW (at 24 ohm)

<sup>1</sup> 5% receive, 5% transmit, 90% standby.

<sup>2</sup> All electrical specifications and methods refer to EIA/TIA 603 standards.  
Specifications shown are typical and subject to change without notice.

MILITARY STANDARDS 810 C, D, E and F								
	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
High Temperature Storage	501.1	I	501.2	I	501.3	I	501.4	I
Low Temperature Storage	502.1	I	502.2	I, II	502.3	I, II	502.4	I, II
Temperature Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Humidity	507.1	II	507.2	II, III	507.3	II, III	507.4	III
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	I
Blowing Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII/X	514.3	I	514.4	I	514.5	I

ENVIRONMENTAL	
Operating Temperature	-30° to +60° C (Radio Only)
Sealing	Passes rain testing per IPX4
Shock and Vibration	Die-cast with impact resistance polycarbonate housing, passes EIA 603B
Dust and Humidity	Weather-resistant housing passes EIA 603B

Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements.

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