

BPR40™

Mag One™ by Motorola



PacTronics Inc
15375 Barranca Pkwy H108
Irvine, CA 92618-2209
800-607-2243 949-502-5599 FAX
www.pactronics.com

Affordable
and
Reliable
Radio for
Small
Business



What is Mag One™ by Motorola?

Mag One™
by Motorola

Mag One by Motorola is a new two-way radio portfolio – at an incredible value and price that will be attractive to a whole range of new customers.

The Mag One by Motorola *BPR™* 40 two-way radio offers a new choice of affordable communications with a complete assortment of accessories for radio customization. So when your customers select the *BPR*40, they will experience a reliable, easy to use two-way radio at a great value.

Motorola is excited to introduce an affordable, high-performance communication tool that offers enhanced value and a reliable solution for your customers with great quality backed by Motorola service and a 1-year limited radio warranty.

***BPR*40 is Ideal for Your Customers!**

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

- **8 channels** for communication to a wide group
- **2 programmable buttons** for easy use and versatility
- **12 programmable features** to choose from
- **Small size and light weight** make it ideal for any customer
- **High/low power** provides flexibility for a variety of situations
- **Attractive price** that everyone can afford
- Designed for **education, hospitality, retail and light construction markets**
- Complete assortment of **accessories increases radio versatility**
- Backed by Motorola service and a 1-year limited radio warranty

The Mag One by Motorola Difference – Quality and Value

We develop our two-way radios with several key factors in mind to provide your customers with great quality and enhanced value. These key factors represent the essential elements your customers are looking for, and Mag One by Motorola brings them all together.

- **Value** ensures customers get the most for their communication dollars
- **Reliability** so they can depend on their radio
- **Ease of use** for simple operation and customization
- **Audio quality** to get their message through loud and clear
- **Programmable** to customize features of each radio for each user



Designed Specifically for Your Customers

The Mag One™ by Motorola BPR™ 40 has the features your customers need to do their jobs more efficiently, productively and safely. Two-way radio communication helps provide quicker response and better customer service, too!

Here are the top features your customers will want:

Incredible Value for a Low Price

It's affordable for school budgets and priced right for any business to order multiple radios for the entire team!

- **Schools:** teachers, bus drivers, security, custodians and administrators
- **Hotels & Resorts:** front desk, bellman, housekeeping, food & beverage managers, banquet staff, security, maintenance and managers
- **Light Construction:** architects, foremen, carpenters, plumbers, electricians and construction workers
- **Retail Stores:** sales staff, checkout registers, department managers, stock room staff, shipping/loading docks, maintenance, security and store managers

High/Low Power

Provides flexibility for a variety of work situations close at hand or spread out over a distance ...

- **Schools:** classrooms, athletic fields, dormitories, buses, maintenance, security and front offices
- **Hotels & Resorts:** curbside check-in, front desk, hotel rooms, banquet rooms, security, housekeeping, maintenance, sales offices, golf courses, ski lifts, beaches or poolside
- **Light Construction:** home office, in vehicles, supply centers and at construction sites
- **Retail Stores:** sales floors, stock rooms, check lanes, departments, maintenance and security

Size and Light Weight Make it Easy to Carry

- Just 12.3 ounces (with standard battery)
- Only 4.21" high

8 Channels

- Allows multiple users and groups to communicate



Education

Accessories help make it convenient and comfortable to manage administrative duties or contact colleagues down the hall or across campus.

- Teachers keep in touch in case of emergencies
- Security and maintenance are in constant contact
- Bus routes and pickup schedules are coordinated efficiently
- Sporting event logistics are handled easily and effectively

Hospitality

Whether coordinating staff for a conference or making a last-minute room change for a guest, accessories help keep hands free for the keyboard or clipboard. Superior guest service is all about seamless coordination and responding quickly to situations. Mag One by Motorola audio accessories help make it easier for each employee to communicate with the team.

- Improves customer service with immediate communication between staff throughout the facility
- Ideal for weather extremes of the golf course, ski lift or seaside resort
- Small size makes it easy to carry for anyone

Retail

Great customer service starts with quick response and coordination by the entire team. Today, customers expect instant answers on the sales floor. The full line of Mag One by Motorola accessories can help staff stay in touch with clear communication throughout the entire team.

- Provide immediate answers to customer's questions without having to leave the customer
- Quickly and effectively coordinate shipping to maximize efficiency and customer service
- Handle order changes quickly and efficiently
- Prioritize delivery schedules at any time

Light Construction

The right accessories, like the right tools, make the job easier and more efficient for the whole crew. Mag One by Motorola accessories give foremen and workers the right tools to stay in touch in noisy environments and at multiple locations.

- Coordinate work among the entire crew at a site
- Clear audio helps facilitate communication at noisy, busy sites
- Ideal for demanding, tough environments
- Instant communication is available in case of emergencies

BPR™ 40 Features

Mag One™
by Motorola

Small and Lightweight
For optimal portability.

On/Off and Volume Control
Large size to adjust volume quickly.

Large Rotary Channel Selector
Changes channels quickly and easily.

8 Channels
Organize teams into different talk groups to improve efficiency.

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

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.

2 Programmable Buttons
Easy access to favorite features. Supports your choice of up to four product features. 12 features to choose from! (See next page.)

Repeater Talkaround
Unit-to-unit communication, bypassing a repeater.

Single Priority Scan
Frequently scan higher priority channels.

Nuisance Channel Delete
Temporarily removes a specific channel in the scan list user no longer wants to hear activity on.

2" Spring Belt Clip
For optimal portability.



Accessory Connector
Convenient access for audio accessories.

Speaker

Rugged, Die-Cast Chassis
With polycarbonate housing for greater protection.

Microphone



Shown actual size

BPR™ 40

Programmable Features

The Mag One™ by Motorola BPR™ 40 has 12 programmable features to choose from!

High/Low Power

Selects desired power level to High or Low.

Volume Set

Allows you to check the audio and alert tone volume level.

Monitor

Allows you to monitor the current channel for activity; disables squelch.

Sticky Monitor

The radio monitors continually until you press this button again.

Scan

Starts or Stops channel scan.

Nuisance Channel Delete

Removes unwanted channel(s) temporarily from scan list during scan.

Repeater Talkaround

Toggles radio between functioning in Repeater mode or Talkaround mode.

PL/DPL

Enables/Disables radio from requiring matching PL/DPL to receive messages.

Button Lock

Locks or unlocks all buttons except PTT, Channel Knob and On/Off/Volume Knob.

Battery Save Mode

Toggles between functioning with Battery Saver ON or Battery Saver OFF.

Squelch

Selects desired squelch level: Normal or Tight.

No Operation

No function is programmed to this button.



Standard Package

- Radio – Ships at 1 Watt
- 1200mAh NiMH Battery
- 6-Hour Mid-rate Charger
- 2" Spring Belt Clip
- VHF/UHF Antenna
- Operating Manuals
- Safety Manual
- 1-Year Limited Radio Warranty



**Mag One™
by Motorola
BPR™ 40 Radio
Accessories**



Mag One 1200mAh NiMH Battery
PMNN4071_R



Mag One 6-hour Mid-rate Charger Kit (includes Base and Transformer) PMLN4738_R
Mag One 12-hour Slow Charger Kit (not pictured, includes Base and Transformer) PMLN4683_R



Mag One 2" Spring Belt Clip
PMLN4743



Mag One Standard Belt Clip
PMLN4691_R



Mag One Hard Leather Case
PMLN4742



Mag One VHF 150-174 MHz Stubby Antenna PMAD4051_R



2-Wire Surveillance Kit with Clear Acoustic Tube
PMLN4606



Clear Acoustic Tube
PMLN4605



D-Shell Earset with Boom Microphone with PTT/VOX Switch PMLN4658



Mag One Remote Speaker Microphone PMMN4008



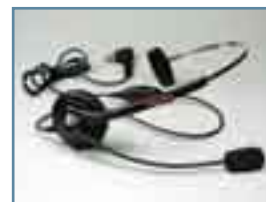
Mag One Earbud with In-line Microphone and PTT/VOX Switch PMLN4442



Earbud with Microphone and PTT Combined
PMLN4294



Mag One Ear Receiver with In-line Microphone and PTT/VOX Switch PMLN4443_B



Mag One Ultra Lightweight Headset with In-line PTT/VOX Switch PMLN4445

Accessory*	Part Number	Description
Energy Solutions	PMNN4071_R	Mag One 1200mAh NiMH Battery
	PMLN4683_R	Mag One 12-hour Slow Charger Kit (includes Base and Transformer)
	PMLN4738_R	Mag One 6-hour Mid-rate Charger Kit (includes Base and Transformer)
Carry Solutions	PMLN4742	Mag One Hard Leather Case
	PMLN4743	Mag One 2" Spring Belt Clip
	PMLN4691_R	Mag One Standard Belt Clip
Antenna	PMAD4051_R	Mag One VHF 150-174 MHz Stubby Antenna
	PMAE4020_R	Mag One UHF 450-470 MHz Stubby Antenna
Audio Solutions	PMLN4606	2-Wire Surveillance Kit with Clear Acoustic Tube
	PMLN4605	Clear Acoustic Tube
	PMLN4658	D-Shell Earset with Boom Microphone with PTT/VOX Switch
	PMMN4008	Mag One Remote Speaker Microphone
	PMLN4442	Mag One Earbud with In-line Microphone and PTT/VOX Switch
	PMLN4294	Earbud with Microphone and PTT Combined
	PMLN4443_B	Mag One Ear Receiver with In-line Microphone and PTT/VOX Switch
	PMLN4445	Mag One Ultra Lightweight Headset with In-line PTT/VOX Switch

BPR™ 40 Portable Two-Way Radio Specifications

GENERAL SPECIFICATIONS	VHF 150-174 MHz	UHF 450-470 MHz
Channel Capacity	8	8
Model Numbers	AAH84KDS8AA1_N	AAH84RCS8AA1_N
FCC Designation	AZ489FT3810	AZ489FT4873
FCC Emissions Designators	11K0F3E/16K0F3E	11K0F3E/16K0F3E
Power Supply	One rechargeable nickel-metal hydride	
Dimensions (H x W x L)	4.21" x 2.28" x 1.46" (107 x 58 x 37 mm)	
Weight (with standard battery)	12.3 ounces (350 g)	
Average Battery Life @ 5-5-90 Duty Cycle¹		
High Power (5W/4W)	Up to 8 hours	
Low Power (1W)	Up to 11 hours	

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 ²	±2.5 ppm	±2.5 ppm
Spurs and Harmonics	-63 dBc (-26 Bm)	-63 dBc (-27 Bm)
Frequency Stability ²	±2.5 ppm	±2.5 ppm
FM Hum & Noise Radio ² (12.5/25 kHz)	40 dB	40 dB
Modulation Limiting ² (12.5/25 kHz)	±2.5 kHz / ±5 kHz	±2.5 kHz / ±5 kHz
Audio Response (0.3-3 kHz) ²	+1 to -3 dB	+1 to -3 dB
Audio Distortion ²	5%	5%

RECEIVER	VHF	UHF
Frequency Range	150-174 MHz	450-470 MHz
Channel Spacing	12.5/25 kHz	12.5/25 kHz
Sensitivity ² (12 dB SINAD)	<-119 dBm (.25uV)	-117.5 dBm (.3uV)
Adjacent Channel Selectivity ² (12.5/25 kHz)	-60 dB / -65 dB	-60 dB / -65 dB
Intermodulation ² (12.5/25 kHz)	-60 dB / -65 dB	-60 dB / -65 dB
Spurious Rejection ²	65 dB	65 dB
Audio Distortion ²	<5%	<5%
Hum & Noise Radio ² (12.5/25 kHz)	40 dB	40 dB
Conducted Emission	-57 dBm	-57 dBm
Audio Output @ <5% Distortion ²	500 mW (at 8 ohm)	500 mW (at 8 ohm)

MILITARY STANDARDS 810 C, D, E and F								
	810 C		810 D		810 E		810 F	
	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

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

¹ 5% receive, 5% transmit, 90% standby.

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

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BPR[™] 40

Motorola, Inc. 1303 E. Algonquin Road, Schaumburg, Illinois 60196
www.motorola.com
1-800-927-2744

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