

# maxon® MBR-400 Series

## Digital Business Radio

### MBR-400 Series Business Radio



The Maxon MBR-400 is a simple and compact digital business radio perfect for restaurants, supermarkets, and retail stores. Pocket sized, it fits perfectly in the palm of your hand and can be used with an earpiece (included) or just use its loudspeaker audio. With a built-in antenna and unobtrusive swivel belt clip, you will be able to act freely and barely notice you are wearing a radio as you communicate to the rest of your co-workers throughout your day. DMR Digital audio ensures your conversations are loud and clear. Additional features can be activated through a local Maxon dealer.

- 16 DMR Digital Channels, 1 Zone
- Preprogrammed with 16 common Jobsite frequencies in DMR Digital or choose between 89 other Jobsite frequencies in Digital or Analog using the Customer CPS program
- FCC License is required for use (Check manual for FCC details)
- 2 Watt RF Power
- Built in Speaker & MIC
- 2 Pin accessory connector used by most manufacturers. Headset included.
- IP54 certified protected against blowing rain
- Built-in Battery (DC+3.7V Li-ion / 2,000Mah); 18 Hours Talk Time
- Spanish Language Mode
- Vibration Function
- Voice recording and playback
- Additional features can be enabled with Dealer-Version CPS Software (Hand's Free VOX, AES Encryption, Key Tones, Lone Worker)



## SPECIFICATIONS

### GENERAL

Frequency Range	440 ~470 MHz
Frequency Stability	±1.5ppm (-30° to 60° C)
Programmable Channels	16 Channels, 1 Zone
Channel Spacing	12.5KHz
Digital Vocoder	AMBE++ Voice Compression Algorithm
Dimensions	86mm(H) x 51.5mm(W) x 22mm(D)
Weight	100g
Power Source	DC +3.7V Li-ion 2,000mAH Battery (Built-in)
Current Drain (maximum)	Receive mode, rated audio out – 420 (Audio Max) Transmit mode – 1,200mA Standby mode – 100mA

### TRANSMITTER

RF Power Output	0.5 / 2 Watt
Adjacent Channel Power	60dB
Spurious and Harmonic	-36dBm(<1GHz), -30dBm(>1GHz)
FM Hum and Noise	40dB (12.5KHz)
Audio Distortion	3% maximum with 1KHz modulation
Audio Frequency Response	+1, -3dB from 6dB per octave pre-emphasis Characteristic from 300 ~ 3000Hz
Output Impedance	50ohms

### RECEIVER

Sensitivity	0.25uV 12 dB SINAD
Squelch Sensitivity	0.22uV 10dB SINAD
Selectivity	60dB (12.5KHz)
Spurious and Harmonic Rejection	-36dBm(<1GHz), -30dBm(>1GHz)
FM Hum and Noise	40dB (12.5KHz)
Audio Output Power	1 Watt across an 8ohm load
Audio Distortion	Less than 3% at rated output
Audio Response	+1, -3 dB from 6dB per octave de-emphasis Characteristic from 300 ~ 3000Hz
Input Impedance	50 ohms

## ACCESSORIES



### IN BOX ACCESSORIES

Maxon Swivel Belt Clip, Single-slot charger, USB-C Charger Cord w/Wall Plug, "C" Style earpiece (Vox Enabled)



### ADDITIONAL CHARGER OPTIONS

6 Radio Multi-Unit Charger  
Charges using a USB-C Cable and 5V Wall Plug

Approvals	FCC	IC	CE
MBR-400	VSODX-300	184A-DX300	CE 2784



Manufactured to ISO-9002:2000 quality standard.

NOTE: Some features indicated by specifications listed are prohibited by FCC rule and are not available on models sold in the U.S. or its territories.

Specifications are subject to change without notice.

# maxon®

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