

# Motorola CP476

## Commercial Citizen Band (CB) Radio



**Multi-channel capability**—45 channels (40 pre-programmed channels and 5 user programmable channels) to support communication amongst all of your employees.

Built-in simple voice scrambling for **increased privacy**.

VOX ready for **hands-free communication**—keeps users hands free for the job at hand.

Tighter specifications provide **enhanced rejection of interference** so you can get your message through clearly.

X-Pand technology provides **crisp, clear and strong audio quality**.

**User programmable** feature allows customization of radio profiles while on the go.

**Easy-to-handle, lightweight, compact design**.

Standard Lilon battery provides **up to 11 hours (5/5/90 duty cycle) of battery life at high power** to meet the demands of your employee's work shift. A high-capacity Lilon battery option is available for those with longer shift requirements or increased communication needs.

**High power**—4 watt (UHF)—adjustable power levels help extend battery life.

5 programmable buttons—enabling easy, **one-touch access to up to 10 user-selected features**.

**Talkaround capability** enabling communication even when a repeater is not being used.

**Rapid-rate drop-in charging**—charge standard capacity batteries in less than 3 hours with the included drop-in charger.

**A wide range of Motorola Original® audio, energy and carrying accessories**, as well as **Mag One™ audio** accessories, provide an affordable option for light duty radio users.

Recommended Accessories#

- PMMN4013**—Remote Speaker Microphone with 3.5mm audio jack, IP54
- PMLN5003**—Lightweight Temple Transducer with In-line Microphone and PTT
- PMLN5001**—D-Style Earpiece with In-line Microphone and PTT
- PMLN4442**—Earbud with In-line Microphone and PTT/VOX switch (Mag One)
- HMN9754**—2-Wire Surveillance Kit, Beige

#For a complete listing of accessories, please refer to the accessories brochure AF4-06-015

### Enhanced functionality, reliable communication

A commercial citizen band radio with the assurance of the Motorola quality seal. The CP476 operates on the citizen band radio service (CBRS) UHF frequencies, without the need for licensing, contracts or fees.

Ideal for retail, hospitality, event management and academic usage, the Motorola CP476 brings you the quality you need at a competitive price. With its extensive features and ergonomic shape for comfortable use in a durable, lightweight and compact design, you can enhance communication while improving work efficiency and increasing productivity.

# CP476 Radio Specifications\*

## General Specifications

CP476	
UHF	
Frequency Range*	476MHz (CH 1 - 40) 435-480MHz (CH 41 - 45)
Memory Channels	45 CH (40 pre-programmed channels and 5 user programmable channels)
Channel Spacing	25 kHz
Operating Temperature Range	-30°C to +60°C (Radio)
Dimensions (H X W X D) with Lilon battery NiMH battery High Capacity Lilon battery	120 x 55 x 35.5 mm 120 x 55 x 36.5 mm 120 x 55 x 40.7 mm
Weight with Lilon battery NiMH battery High Capacity Lilon battery	335.0 gm 394.5 gm 342.0 gm
Average Battery Life @5-5-90% Duty Cycle, with Lilon battery NiMH battery High Capacity Lilon battery	High Power up to 11 hrs up to 9 hrs up to 16 hrs
Sealing	Passes rain testing per IP54
Shock & Vibration	Diecast with impact resistance polycarbonate housing, Meets MIL-STD810C/D/E/F
Dust & Humidity	Weather resistant housing Meets MIL-STD810C/D/E/F

## Transmitter

CP476		
UHF		
	High Power 4W	Low Power 1W
RF Output		
Spurs and Harmonics	9kHz - 1GHz < -36dBm > 1GHz < -30dBm	
Frequency Stability (-30°C to +60°C)	+/- 2.5ppm	
FM Hum & Noise	> 40dB	
Modulation Limiting	≤ 5kHz (25kHz) ≤ 2.5kHz (12.5kHz)	
Audio Response (from 6dB/oct pre-emphasis, 300-3000Hz)	≤ +1/-3dB	
Audio Distortion @ 1kHz tone, 60% rated max dev.	<5%	

## Receiver

CP476	
UHF	
Sensitivity (12dB SINAD)	<-119 dBm (0.25uV)
Adjacent Channel Selectivity	> 70dB (25kHz), >65dB (12.5kHz)
Intermodulation	>70dB
Spurious Rejection	>70dB
Audio Distortion	<5%
Hum and Noise	>40dB
Conducted Emission	< -57dBm for below 1GHz < -47dBm for above 1GHz
Audio Output @ <5% Distortion	500mW (at 24 ohm)

## Military Standards

Applicable MIL-STD	810C		810D		810E		810F	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
High Temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1
Temperature Shock	503.1	-	503.2	I/A1C3	503.3	I/A1C3	503.4	I
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I
Humidity	507.1	II	507.2	II	507.3	II	507.4	-
Salt Fog	509.1	-	509.2	-	509.3	-	509.4	-
Blowing Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24

\*Availability subject to country's laws and regulations. Radios meet applicable regulatory requirements. All specifications subject to change without notice.

Specifications are not representative of all radios and may vary in different radios.

\*Radio frequencies subject to availability.

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Stringent Motorola Accelerated Life Testing simulating five years of hard use in real life. (EIA RS-3168 in Shock, Vibration, Dust, Humidity, IP54 for Sealing.



Compliance with ISO 9001 Standard on international quality system assurance on design, development, production, installation and servicing of a product.



Stamp of Approval from the U.S. Military for use in rough environments.



To ensure compliance with RF energy exposure standards and regulations, use only Motorola-approved batteries and accessories. Use of non-Motorola-approved batteries and accessories may result in RF energy exposure standards being exceeded.