

*Commercial Citizen Band Two-Way Radio*

# Motorola CP476

*Simple, reliable, affordable communications*



# CP476



## ***Motorola Quality, Value for Money***

Looking for a commercial citizen band radio with the assurance of the Motorola quality seal then look no further, the Motorola CP476 is the answer!

The Motorola CP476 is an easy-to-use radio which, when operating on the Citizen Band, does away with the need for licensing, contracts or fees. It is ideal for any small operation wanting a simple, affordable CB radio built to the commercial quality you need.

With 40 CB channels and 5 programmable channels (450-480MHz), the CP476 also boasts built-in voice scrambling providing enhanced privacy and communication while improving work efficiency.

Its durable, lightweight and compact design is comfortable to use and is ideal for retail, education and hospitality applications as well as the rugged industrial environments of construction and manufacturing.

Getting started is a breeze, simply purchase your CP476 from your nearest Motorola dealer, charge the battery and the radio is ready for use.

The Motorola CP476, a quick start communication tool that is easy on the pocket and also comes with a wide range of accessories giving you operational efficiency with Motorola renowned reliability.

## SPECIFICATIONS

# Motorola CP476

## Commercial Citizen Band (CB) Radio

**Multi-channel capability**—45 channels (40 CB channels and 5 user programmable channels (450-480MHZ)) 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™ audio technology provides **crisp, clear and strong audio quality**.

**User programmable** feature allows customisation 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**—1 or 4 watt—adjustable power levels help extend battery life.

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

**Talkaround mode** 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.

**Meets demanding specifications including:**

**U.S. Military Specifications 810 C, D, E, and F**, including temperature extremes, solar radiation, rain, humidity, salt fog, dust, vibration and shock.

**IP54 rated**—Ingress Protection (IP) against dust (rating 5) and water (rating 4).

**Motorola Accelerated Life Testing (ALT) standards** for durability and reliability.

## Simple, Reliable, Affordable Communications

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

Ideal for retail, hospitality, event management, to the rugged environments of manufacturing and construction, the Motorola CP476 brings you the quality you need at a competitive price. With its extensive features and durable, lightweight and compact design, you can enhance communication while improving work efficiency and increasing productivity.

## ACCESSORIES

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.

## Chargers

**PMLN5395** Tri chemistry single unit 240V rapid charger



PMLN5395



PMNN4081 / PMNN4080

## Batteries

**PMNN4081** 1500mAh Lilon battery (without belt clip)

**PMNN4080** 2150mAh Lilon battery (without belt clip)

## Remote Speaker Microphones

**PMMN4013** Wind porting remote speaker microphone with 3.5mm audio accessory jack

**PMMN4029** Wind porting waterproof (IP57) remote speaker microphone

**PMMN4008** Mag One remote speaker microphone



PMMN4008



PMMN4013

## Remote Speaker Microphone Ear Pieces

**AARLN4885** Receive-only ear bud RSM ear piece (3.5mm)

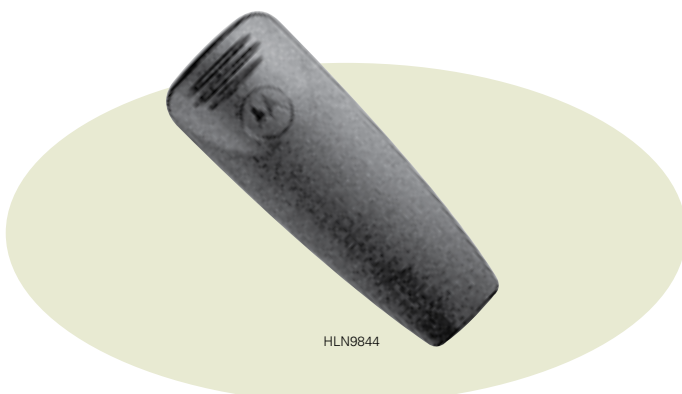
**PMLN4620** Receive-only D-shell RSM ear piece (3.5mm)

**RLN4941** Receive-only quick release acoustic tube RSM ear piece (3.5mm)

**WADN4190** Receive-only flexible receiver RSM ear piece (3.5mm)



WADN4190

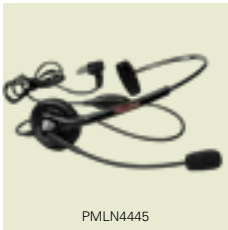


HLN9844

## Carrying Cases

**PMLN5334** Protective leather case

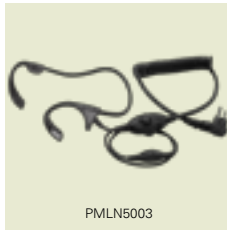
**HLN9844** Spring belt clip (for 1.5" belt width)



PMLN4445



HMN9013



PMLN5003

## Headsets

**PMLN4445** Ultra-light headset with boom mic and in-line PTT/VOX Switch (Mag One)

**HMN9013** Light weight headset with swivel boom microphone

**PMLN5003** Temple transducer headset with in-line PTT and microphone

## Ear Pieces

**RLN4895** 2-wire surveillance kit with over the ear hook (black)

**HMN9754** 2-wire surveillance kit with over the ear hook (beige)

**PMLN5001** 2-wire surveillance kit with D-style ear piece (black)

**RLN5317** 2-wire surveillance kit with quick release acoustic tube (black)

**RLN5318** 2-wire surveillance kit with quick release acoustic tube (beige)

**PMLN4442** Mag One ear bud with in-line mic/PTT/VOX switch

**PMLN4443** Mag One flexible ear receiver with in-line mic/PTT/VOX switch

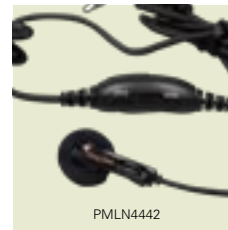
**PMLN4444** Mag One ear set with boom mic and in-line PTT/VOX switch



PMLN5001



HMN9754



PMLN4442



PMLN4443

## Acoustic Tube Spares

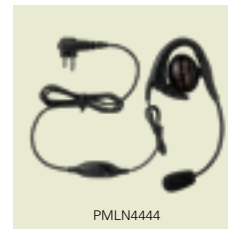
**RLN6230** Extreme noise kit, includes foam ear plugs with quick release acoustic tube (black clip)

**RLN6231** Extreme noise kit, includes foam ear plugs with quick release acoustic tube (beige clip)

**RLN6232** Low noise kit, includes rubber tip with quick release acoustic tube (black clip)

**RLN6241** Low noise kit, includes rubber tip with quick release acoustic tube (beige clip)

**RLN6242** Quick release acoustic tube replacement



PMLN4444

## Antennas

**HLN8262** External antenna adapter (BNC connector)

**PMAE4003** UHF 9cm stubby helical antenna (438-470 MHz)

**PMAE4006** UHF 9cm stubby helical antenna (465-495 MHz)

**PMAE4008** UHF 13cm whip antenna (470-530 MHz)

**PMAE4016** UHF 16.5cm whip antenna (403-520 MHz)

# CP476 Radio Specifications\*

## General Specifications

	CP476
	UHF
Frequency Range	476MHz (CH 1 - 40) 450-480MHz (CH 41 - 45)
Model Number	AZH03RDH8AA2
Memory Channels	45 CH (40 pre-programmed channels and 5 user programmable channels)
Channel Spacing	25kHz
Operating Temperature Range	-30°C to +60°C (Radio)
Dimensions (H X W X D) with Lilon battery High Capacity Lilon battery	120 x 55 x 35.5 mm 120 x 55 x 40.7 mm
Weight with Lilon battery High Capacity Lilon battery	335.0g 342.0g
Average Battery Life @5-5-90% Duty Cycle, with Lilon battery High Capacity Lilon battery	High Power up to 11 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.



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Stringent Motorola Accelerated Life Testing simulating five years of hard use in real life. EIA RS-3169 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.