

# CP261 PORTABLE RADIOS

A Simple & Practical Voice Communications Device

Meeting the needs of the basic user who values ease and efficiency.



The CP261 is a practical, cost-effective portable two-way radio for professionals wanting to communicate with greater ease and efficiency.

With a complete range of accessories you can design the CP261 to fit perfectly into your work day.

Experience Motorola Solutions analog voice communications, trusted by millions of users for exceptional voice quality and exceptional performance.

## VERSATILE SOLUTION TO START AND GROW WITH

The CP261 offers 16 channels, and is a non-key pad model.

## CLEARER AUDIO, BETTER PERFORMANCE

When it comes to exceptional audio clarity, the quality cannot be denied. The CP261 portable gives you clear audio performance throughout your coverage area.

The portable permits fast and flexible communication, reaching out to your radio users in a high noise environment where voice is difficult to hear or when sensitive information is being communicated.

When workers cannot be distracted, voice announcement provides audible confirmation of channel changes. This customizable feature uses default audio files for easy operation.

## FEATURES

- Analogue Voice Communications
- IP54 Rated
- 16 channels
- Durable polycarbonate housing
- Receive Audio Leveling



Military Standard 810C, D, E, F and G for exceptional durability.

They also surpassed the Accelerated Life Testing (ALT) where they were subjected to simulation of 5 years of hard use in real life. These tests include drop, temperature shock, vibration, dust, ESD and humidity.

## INCREASED EFFICIENCY WITHOUT INCREASED COSTS

Your investment in radio accessories does not go to waste. The radio incorporates the 2-pin accessory connector so you can reuse your existing audio earpieces. The advantage of accessory compatibility also extends to battery, antenna and charger.

## HOTEL ROOMS, ASSEMBLY LINES AND EVENT VENUES

No matter what environment you are using the radio in, you can connect more people effortlessly wherever they work.

Easy to carry and operate, hotel housekeepers can quickly update the supervisors from inside the guest rooms or on the hotel floors. Their CP261 radios deliver voice throughout the entire coverage area of your sprawling resort or high-rise hotel buildings.

With CP261 radios for your on-site crew, being on the same radio spectrum means they have more open lines for instant updates. If there is an emergency, you can communicate quickly and send the closest security employee to any part of the venue to speed up response time.

Your assembly line workers can rely on the clear audio of their CP261 radios to filter out background noise for better noise suppression where it matters. They can hear clearly anywhere in the busy factory or use one of the programmable buttons to send pre-programmed text messages.

## MADE FOR LIFE, MADE TO LAST

The CP261 offers 16 channels, and is a non-keypad model. It meets demanding specifications, including IP54 for dust, water and US

\*Optional feature



## GENERAL SPECIFICATIONS

	CP261	
	VHF	UHF BAND 1
Channel Capacity	16	
Typical RF Output		
Low Power	1 W	1 W
High Power	5 W	4 W
Frequency	136-174 MHz	403-480 MHz
Radio Dimensions (H x W x D) with battery:		
Li-Ion 1750mAh	120.0 x 55.0 x 34.7 mm	
High Cap Li-Ion 2250mAh	120.0 x 55.0 x 39.9 mm	
Weight with battery:		
Slim Li-Ion 1750mAh	276 g	
Li-Ion 2250mAh	281 g	
Power Supply	7.5V (Nominal)	

## BATTERY

Average battery life at 5/5/90 duty cycle with carrier squelch and transmitter in high power.<sup>1</sup>

Li-Ion 1750mAh	Analogue: 10.7 hrs
High Cap Li-Ion 2250mAh	Analogue: 15.0 hrs

## RECEIVER

Frequency	136-174 MHz	403-480 MHz
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz	
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 1.5 ppm	
Analogue Sensitivity (12 dB SINAD)	0.3 uV / 0.22 uV (typical)	
Intermodulation (TIA603D)	70 dB	
Adjacent Channel Selectivity (TIA603D)	45 dB @ 12.5 kHz / 70 dB @ 25 kHz	
Spurious Rejection (TIA603D)	70 dB	
Rated Audio	0.5 W (Internal)	
Audio Distortion @ Rated Audio	5% (3% typical)	
Hum and Noise	-40 dB @ 12.5 kHz / -45 dB @ 25 kHz	
Audio Response	TIA603D	
Conducted Spurious Emissions (TIA603D)	-57 dBm	

## TRANSMITTER

Frequency	136-174 MHz	403-480 MHz
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz	
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 1.5 ppm	
Low Power Output	1W	1W
High Power Output	5W	4W
Modulation Limiting	± 2.5 kHz @ 12.5 kHz / ± 5.0 kHz @ 25 kHz	
FM Hum and Noise	-40 dB @ 12.5 kHz / -45 dB @ 25 kHz	
Conducted / Radiated Emission	-36 dBm < 1 GHz / -30 dBm > 1 GHz	
Adjacent Channel Power	60 dB @ 12.5 kHz / 70 dB @ 25 kHz	
Audio Response	TIA603D	
Audio Distortion	3% (typical)	

## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30°C <sup>2</sup> / +60°C
Storage Temperature	-40°C <sup>2</sup> / +85°C
ESD	IEC 61000-4-2 Level 3
Dust and Water Intrusion	IP54

<sup>1</sup> Actual battery runtime observed may vary

<sup>2</sup> Radio only - Li-Ion battery -10°C

Specifications subject to change without notice.

All specifications shown are typical.





## MILITARY STANDARDS

Applicable MIL-STD	810C		810D		810E		810F		810G		810H	
	Method	Procedures	Method	Procedures	Method	Procedures	Method	Procedures	Method	Procedures	Method	Procedures
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.6	II	500.6	II
High Temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot	501.6	I/A1, II/A1	501.7	I/A1, II/A1
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1	502.6	I/C3, II/C1	502.7	I/C3, II/C1
Temperature Shock	503.1	I	503.2	I/A1C3	503.3	I/A1C3	503.4	I	503.6	I-C	503.7	I-C
Solar Radiation	505.1	II	505.2	I	505.3	I/A1	506.4	I/A1	505.6	I/A1	505.7	I/A1
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.6	I, III	506.6	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	–	507.6	II/Aggravated	507.6	II/Aggravated
Salt fog	509.1	I	509.2	I	509.3	-	509.4	–	509.6	–	509.7	–
Blowing Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.6	I	510.7	I
Blowing Sand	–	–	510.2	II	510.3	II	510.4	II	510.6	II	510.7	II
Vibration	514.2	VIII/F, XI	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24, II/5	514.7	I/24, II/5	514.8	I/24, II/5
Shock	516.2	I, II, V	516.3	I, IV, VI	516.4	I, IV, VI	516.5	I, IV, VI	516.7	I, IV, VI	516.8	I, IV, VI
Shock (Drop)	516.2	II	516.3	IV	516.4	IV	516.5	IV	516.7	IV	516.8	IV

## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30°C / +60°C
Storage Temperature	-40°C / +85°C
Thermal Shock	Per MIL-STD
Humidity	Per MIL-STD
ESD	IEC 61000-4-2 Level 3
Dust and Water Intrusion	IP54, MIL-STD
Packaging Test	MIL-STD 810D and E

<sup>1</sup> Radio only - Li-Ion battery -10°C  
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For more information, visit [motorolasolutions.com](http://motorolasolutions.com)

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