Motorola CP1100

Entry Level Commercial Portable Two-way Radio

Performance You Can Count On.
The Motorola CP1100 provides your business with a competitive communications edge, enhancing employee efficiency and overall profitability. Affordable and easy to use, the CP1100 helps keep your operations on schedule, maximize job-shift productivity, enhance security and increase overall customer satisfaction. The versatile CP1100 also has a full complement of accessories for customizing the radio to suit your needs.

CP1100

Lightweight & Compact
CP1100 which is less than 250gm* is designed to fit comfortably in the hand.

Excellent Audio Quality
2000mW audio output, speaker magnetic field reduction, wind-noise reduction and improved RF specifications deliver superior audio quality.

Flexible and Durable Battery Life Solutions
The custom CP1100 Li-Ion battery packs are designed and manufactured to ensure durability. An alkaline battery kit is available as an optional accessory.

Voice Activation (VOX)
Enables convenient hands-free operation with optional accessories.

Scramble
Build-in voice inversion scrambling for additional layer of privacy.

Customizable and Expanded PL/DPL codes
CP1100 offers 84 DPL codes, 84 inverted DPL codes, 39 PL codes, and 6 fully customized PL codes, to set-up many unique talk groups.

Tri-Color LED Interface
Convenient interface allows users to identify radio features and status.

Customer Programming Software (CPS)**
Provides end-users easy access to change radio settings for channels, programmable buttons, audio profile, scan list and customizable PL codes.

General Features:
- 10 Channels
- Accessory Mic Gain
- Battery Save
- Power Select – 2/4Watts (UHF) & 2/5Watts (VHF)
- Scan and Scan List
- Monitor
- Time-Out Timer
- USB CPS Interface

A wide range of **Motorola Original®** audio, energy and carrying accessories are available to enhance your productivity.

Recommended Accessories:
- Lightweight Headset with Boom Microphone
- Swivel Earpiece with Inline PTT (PTT) Microphone
- Earbud with Clip Microphone and Push-to-Talk (PTT)
- Remote Speaker Microphone

* With standard Li-Ion battery.

** CPS is sold separately. Windows® XP, Windows 2000 compatible, separate USB cable required.

CP1100 Radio Specifications#

General Specifications

	UHF	VHF
Frequency Range	403 – 445 MHz, 423 – 445 MHz, 438 – 470 MHz	146 – 174 MHz
Audio Output	2000 mW	
Channel Capacity	10 Channels	
Channel Bandwidth	12.5/25 kHz	
Dimensions (H" x W" x D") w/Standard Li-Ion Battery	4.5 x 2.2 x 1.6 inches (115.6 x 57.6 x 40.5 mm)	
Weight w/Standard Li-Ion Battery w/High Capacity Li-Ion Battery	8.6 oz (244g) 10.3 oz (293g)	
Average Battery Life @ 5/5/90 (with Battery Save On): w/Standard 1100 mAH Li-Ion Battery w/High Capacity 2200 mAH Li-Ion Battery w/Optional Alkaline Battery Accessory	 Up to 8.5 Hours Up to 17 Hours Up to 26 Hours	
Power Supply Voltage	7.2 Volts DC (Li-Ion Battery Pack or Alkaline)	

Transmitter

RF Output High Low	 4 Watts 2 Watts	 5 Watts 2 Watts
Frequency Stability	< 2 ppm	< 2.5 ppm
Spurs & Harmonics	< -21 dBm	
FM Hum & Noise	-40 dB @ 12.5 kHz with compander disabled -45 dB @ 25.0 kHz	
Modulation Limiting	±2.5 kHz @ 12.5 kHz ±5.0 kHz @ 25.0 kHz	
Adjacent Channel Power	> 65 dBc	
Radiated Spurious Emissions	< -20 dBm	
Audio Frequency Response (0.3 - 3.0 kHz)	+5 to -5 dB @ 12.5 kHz, +3 to -3 dB @ 25 kHz	
Audio Distortion	< 2%	

Receiver

Sensitivity (12 dB SINAD)	-122 dBm (0.18 µV)
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 65 dB @ 25.0 kHz
Intermodulation Rejection	60 dB
Spurious Response Rejection (blocking 1 MHz)	80 dB
Audio Distortion	< 5%
CSQ Hum & Noise @ 12.5 kHz	-50 dB
PL Hum & Noise @ 12.5 kHz	-50 dB
DPL Hum & Noise @ 12.5 kHz	-45 dB
Radiated Spurious Emissions (< 1 GHz)	< -54 dBm @ 10m
Radiated Spurious Emissions (> 1 GHz)	< -41.3 dBm @ 10m
Audio Output @ < 5% Distortion	2.0W @ 8 ohms

Military Specifications

Standard	MIL 810 C Methods/Procedures	MIL 810 D Methods/Procedures	MIL 810 E Methods/Procedures	MIL 810 F Methods/Procedures
Low Pressure	500.1 / Procedure 1	500.2 / Procedure 2	500.3 / Procedure 2	500.4 / Procedure 1
High Temperature	501.1 / Procedure 1,2	501.2 / Procedure 1,2	501.3 / Procedure 1,2	501.4 / Procedure 1,2
Low Temperature	502.1 / Procedure 1	502.2 / Procedure 1,2	502.3 / Procedure 1,2	501.4 / Procedure 1,2
Temperature Shock	503.1 / Procedure 1	503.2 / Procedure 1	503.3 / Procedure 1	503.4 / Procedure 1
Solar Radiation	505.1 / Procedure 1	505.2 / Procedure 1	505.3 / Procedure 1	505.4 / Procedure 1
Rain	506.1 / Procedure 1,2	506.2 / Procedure 1,2	506.3 / Procedure 1,2	506.4 / Procedure 1
Humidity	507.1 / Procedure 2	507.2 / Procedure 2,3	507.3 / Procedure 2,3	507.4 / Procedure 3
Salt Fog	509.1 / Procedure 1	509.2 / Procedure 1	509.3 / Procedure 1	509.4 / Procedure 1
Dust	510.1 / Procedure 1	510.2 / Procedure 1	510.3 / Procedure 1	510.4 / Procedure 1
Vibration	514.2 / Procedure 8,10	514.3 / Procedure 1	514.4 / Procedure 1	514.5 / Procedure 1
Shock	516.2 / Procedure 1,2,5	516.3 / Procedure 1,4	516.4 / Procedure 1,4	516.5 / Procedure 1

Environmental Specifications

Operating Temperature	-30°C to +60°C (Radio)
Sealing	IP55
Shock & Vibration	Polycarbonate Housing passes EIA 603
Dust & Humidity	Satisfied EIA 603

#Specifications subject to change without notice.
All specifications shown are typical. Radio meets applicable regulatory requirements.

MOTOROLA

Motorola Electronics Pte Ltd
Motorola Innovation Centre - Level 7 12 Ang Mo Kio Street 64 Ang Mo Kio Industrial Park 3 Singapore 569088
www.motorola.com

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