



Motorola CP1180

Entry Level Commercial Portable Two-way Radio

Performance You Can Count On.

The Motorola CP1180 provides your business with a competitive communications edge, enhancing employee efficiency and overall profitability. Affordable and easy to use, the CP1180 helps keep your operations on schedule, maximize job-shift productivity, enhance security and increase overall customer satisfaction. The versatile CP1180 also has a full complement of accessories for customizing the radio to suit your needs.



CP1180

Lightweight & Compact

CP1180 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 CP1180 Li-Ion battery packs are designed and manufactured to ensure durability. An alkaline battery kit is available as an optional accessory.

Voice Activation (iVOX/VOX)

Enables convenient hands-free operation without / with optional accessories.

Scramble

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

Customizable and Expanded PL/DPL codes

CP1180 offers 84 DPL codes, 84 inverted DPL codes, 39 PL codes, and 6 fully customized PL codes, to set-up many unique talk groups.

Channel Aliasing

Provides the ability to give channels user-defined names.

Programmable Buttons

The five programmable buttons give users quick access to their most frequently used features such as Scan, Tx power select, or Repeater/Talkaround etc.

Tri-Color LED Interface

Convenient interface allows users to identify radio features and status.

General Features:

- 16 Channels
- Accessory Mic Gain
- Battery Save
- Backlit Display
- Power Select – 2/4Watts (UHF)
- Scan and Scan List
- Monitor
- Time-Out Timer

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.
Windows® XP, Windows 2000 compatible, separate USB cable required.

CP1180 Radio Specifications[#]

General Specifications

	UHF
Frequency Range	350 to 351 MHz
Audio Output	2000 mW
Channel Capacity	16 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
Frequency Stability	< 2 ppm
Spurs & Harmonics	< -50 dBc
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	60 dBc
Radiated Spurious Emissions	< -20 dBm
Audio Frequency Response (0.3 - 3.0 kHz)	+1 to -3 dB (for 12.5 kHz channels compander must be disabled)
Audio Distortion	< 2%

Receiver

Sensitivity (12 dB SINAD)	-122 dBm (0.16 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 W

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 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

MOTOROLA and the Stylized M Logo are trademark of Motorola, Inc. All other product or service names are property of their respective owners.
©2009 Motorola. All rights reserved.

AC3-04-036 Rev.1