



YOUR VOICE JUST GOT STRONGER

# MOTOTRBO™ CP7668 DIGITAL TWO-WAY PORTABLE RADIO

From the factory worker building components to the road crew making repairs, MOTOTRBO can transform your enterprise and make employee interactions smarter and safer. Our best-in-class audio and unrivaled data capabilities empower people like never before.

Versatile and powerful, MOTOTRBO combines the best of two-way radio functionality with the latest digital technology. CP7668 portable radios integrate voice and data seamlessly, offer enhanced features that are easy to use, and deliver business-critical advantages like integrated Bluetooth® and Intelligent Audio.

The CP7668 can remaster your workplace and the way people collaborate to help you achieve even greater efficiency.





## AUDIO BEYOND EXPECTATIONS

When it comes to exceptional audio clarity, the quality of digital can't be denied. CP7668 portables give you digital audio performance throughout your coverage area plus unique features to help your employees hear and speak clearly, wherever they work.

With Intelligent Audio, the radio volume automatically adjusts to compensate for background noise so workers don't have to adjust their radio volume to avoid missing a call in loud situations or disturb others when they move into quiet areas. Increased background noise suppression helps filter out unwanted external clamor – from heavy equipment to the roar of engines.

Bluetooth® audio is embedded right in the radio, so no adapter is needed when using wireless accessories. Also, IMPRES™ audio accessories enhance noise suppression and improve voice intelligibility for smarter accessories than they've ever experienced before.

## INDUSTRY-LEADING DATA

CP7668 radios feature integrated Bluetooth® data, so rather than waiting until the end of a shift, busy work crews can send real time information back to the office, saving valuable hours and enabling better decision making. Integrated GPS enables location tracking of mobile work teams and text messaging enables communication when voice isn't feasible. And the large, full-color, 5-line display operates in day or night mode, for easy viewing of contact lists, text messages and work order tickets even in bright sunlight.

## HIGH-POWERED PERFORMANCE

Because MOTOTRBO uses TDMA digital technology, you get integrated voice and data, twice the calling capacity and clearer voice communications. When it comes to battery performance, MOTOTRBO radios operate up to 40 percent longer between recharges compared to analog.

## RICH FUNCTIONALITY

CP7668 radios offer plenty of features businesses seek – including enhanced call signaling and encryption to prioritize critical communication the moment you need it. Programmable button features appear on the display for easy viewing and quick access. And when workers can't be distracted, customizable voice announcement provides audible confirmation of channel and zone changes as well as programmable button features, eliminating the need to view the display.

## EXPANDED CAPACITY AND COVERAGE

Your workforce is hard at work every day – picking up loads, making road repairs, providing security, responding to guest requests or restoring power after a storm.

When your fleet is dispatched across the city and your workers are miles apart, you need a way to stay connected. MOTOTRBO Connect Plus multi-site trunking extends digital voice and data communication to as many as 29 talk groups and 2,900 users per site, so no matter where your work force goes, they can be reached – making them more efficient and safer in the process.










## MIGRATE AT YOUR OWN PACE

Keeping operations running smoothly during a change in communication systems is vital to any business. It's easy to migrate to digital with CP7668 radios because they operate in analog and digital mode. So you can begin using MOTOTRBO radios and repeaters on your existing analog system, and when your time and budget allow, move to digital at your own pace.

## DAY-IN, DAY-OUT DURABILITY

CP7668 radios meet the most demanding specs, including IP57 for water submersibility and U.S. Military 810 C, D, E, F, & G standards for exceptional durability. And it's backed by a two-year Standard Warranty, and 1-year Warranty for batteries and accessories.

## KEEP YOUR BUSINESS RUNNING SMOOTHLY WITH BUSINESS APPLICATIONS

-  **Location tracking:** Monitor the whereabouts of mobile workers so they can respond immediately; in an emergency, you can pinpoint security personnel and send the nearest to the scene
-  **Integrated Bluetooth®** for sharing data wirelessly and instantly between devices
-  **Dispatch consoles** for centralized communication
-  **Email gateways** to connect to email from your radio
-  **Network monitoring** to maximize system utilization
-  **Man-down applications** so radios call for help when workers can't
-  **Telephony** for communication between radios and landline or mobile phones
-  **Text messaging** for quick and discreet communication
-  **Work order tickets** for faster customer response

<b>MILITARY STANDARDS</b>										
	<b>810C</b>		<b>810D</b>		<b>810E</b>		<b>810F</b>		<b>810G</b>	
<b>APPLICABLE MIL-STD</b>	<b>METHOD</b>	<b>PROCEDURES</b>	<b>METHOD</b>	<b>PROCEDURES</b>	<b>METHOD</b>	<b>PROCEDURES</b>	<b>METHOD</b>	<b>PROCEDURES</b>	<b>METHOD</b>	<b>PROCEDURES</b>
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	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	501.5	I-A1, II
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I-C3, II/C1	502.5	I, II
Temperature Shock	503.1	-	503.2	I/A1/C3	503.3	I/A1/C3	503.4	I	503.5	I-C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I-A1
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.5	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-	507.5	II
Salt fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-
Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24	514.6	II/5
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV, VI

**GPS**

Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at nominal -130 dBm signal strength)

TTF (Time To First Fix) - Cold Start	< 60 seconds
TTF (Time To First Fix) - Hot Start	< 10 seconds
Horizontal Accuracy	< 5 meters

**BLUETOOTH**

Version	Supports Bluetooth® 2.1 + EDR Specification
Range	Class 2, 10 meters

**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	IEC 60529 - IP57
Packaging test	MIL-STD 810D and E

Testing completed using portable radio with attached battery and antenna

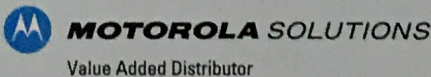
- Conforms to:
- IEC 1999/5/EC (R&TTE Radio and Telecommunications Terminal Equipment)
  - EN 300 086
  - EN 300 113

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

For more information on how to strengthen your portable voice, visit [motorolasolutions.com/ap/mototrbo](http://motorolasolutions.com/ap/mototrbo)



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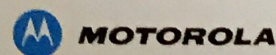
**MOTOTRBO**  
DIGITAL  
REMASTERED.

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CP7668\_SS\_0814

Recommended Dealer:  
[www.hkrsolutions.com](http://www.hkrsolutions.com)

**HKRSolutions**  
Two-way Radio & Accessories Specialist



## CP7668 SERIES SPECIFICATIONS

### GENERAL SPECIFICATIONS

<b>DISPLAY CP7668</b>		
<b>UHF</b>		
Channel Capacity	1000	
Frequency	403-527MHz	
IMPRES Hi-Cap Li-Ion 2150 mAh Battery (PMNN4409)	(HxWxL)	5.13 inch / 2.17 inch / 1.62 inch (130.3 mm / 55.2 mm / 41.1 mm)
	Weight	12.54 oz (355.5 g)
Power Supply	7.5 V (Nominal)	
Operating Temperature	-30 ~ +60 °C <sup>1</sup>	
FCC Description	ABZ99FT4086	
IC Description	109AB-99FT4086	

### BATTERY

Average Battery Life	5/5/90 duty cycle with carrier squelch and transmitter in high power <sup>2</sup>
IMPRES Hi-Cap Li-Ion 2150 mAh Battery	Analog: 11.1 hrs/Digital: 16.2 hrs

### RECEIVER

<b>UHF</b>	
Frequencies	403-527 MHz
Channel Spacing	12.5/25kHz
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5 ppm
Analog Sensitivity (12dB SINAD)	0.3uV (0.22uV typical)
Digital Sensitivity	0.25 uV (0.19 uV typical)
Intermodulation (TIA603D)	70 dB
Adjacent Channel Selectivity (TIA603A)-1T	60dB @ 12.5 kHz / 70dB @ 25 kHz <sup>2</sup>
Adjacent Channel Selectivity (TIA603D)-2T	45dB @ 12.5 kHz / 70dB @ 25 kHz <sup>2</sup>
Spurious Rejection (TIA603D)	70 dB
Rated Audio	0.5W
Audio Distortion @ Rated Audio	5% (3% typical)
Hum and Noise	-40dB @ 12.5 kHz / -45dB @ 25 kHz <sup>2</sup>
Audio Response	TIA603D
Conducted Spurious Emission (TIA603D)	-57dBm

### TRANSMITTER

<b>UHF</b>	
Frequencies	403-527 MHz
Channel Spacing	12.5/25 kHz
Frequency Stability	± 0.5 ppm
Low Power Output	1W
High Power Output	4W/2.5W
Modulation Limiting	± 2.5kHz @ 12.5 kHz / ± 5.0kHz @ 25 kHz <sup>3</sup>
FM Hum and Noise	-40dB @ 12.5 kHz / -45dB @ 25 kHz <sup>2</sup>
Conducted/Radiated Emission	-36 dBm < 1GHz / -30 dBm > 1GHz
Adjacent Channel Power	60dB @ 12.5 kHz / 70dB @ 25 kHz <sup>3</sup>
Audio Response	TIA603D
Audio Distortion	3%
4FSK Digital Modulation	12.5 kHz Data: 7K60F1D & 7K60FXD
	12.5 kHz Voice: 7K60F1E & 7K60FXE
	Combination of 12.5 kHz Voice & Data: 7K60F1W
Digital Vocoder Type	AMBE+2™
Digital Protocol	ETSI TS 102 361-1, -2, -3

<sup>1</sup> Radio only - Li-Ion battery -10C

<sup>2</sup> Actual battery runtime observed may vary based on the use of certain features such as GPS, Bluetooth, and Expansion Card based applications.

Please contact your Motorola sales representative for battery runtime expectations based on your specific radio configuration.