



YOUR MOBILE VOICE JUST GOT STRONGER

MOTOTRBO™ CM7668 DIGITAL TWO-WAY MOBILE RADIO



From the delivery driver criss-crossing the city to the sanitation crew clearing streets, MOTOTRBO can transform your enterprise and make employee interactions smarter and safer. Our best-in-class audio and exceptional data capabilities empower people like never before.

Versatile and powerful, MOTOTRBO combines the best of two-way radio functionality with the latest digital technology. CM7668 mobile radios integrate voice and data seamlessly, offer enhanced features that are easy to use, and deliver operation-critical advantages like integrated Bluetooth® and Intelligent Audio.

The CM7668 mobile radio 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. With the CM7668 mobiles, you get digital quality 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 disturbing others when they move into quiet places. Increased background noise suppression filters out unwanted external clamor – from road traffic to the roar of engines.

Bluetooth® audio, embedded right in the radio, provides voice communication with exceptional clarity – giving your people the freedom to move without wires. Also, IMPRES™ audio accessories enhance noise suppression and improve voice intelligibility for smarter audio than they've ever experienced before.

INDUSTRY-LEADING DATA

CM7668 radios feature integrated GPS that enables location tracking of mobile work teams and text messaging to enable communication when voice isn't feasible and the large, full-color display operates in day or night mode, for easy viewing of contact lists, text messages and work order tickets even in bright sunlight. These radios also feature integrated Bluetooth enabling the radio to wirelessly interface with Bluetooth-enabled devices such as barcode scanners and magnetic card readers to facilitate the collection of critical information in the field.

HIGH-POWERED PERFORMANCE

Because MOTOTRBO uses TDMA digital technology, you get integrated voice and data, twice the calling capacity and clearer voice communications. Also, the smart IMPRES™ technology in our high-powered accessories enables easier communications – everywhere your people travel.

RICH FUNCTIONALITY

CM7668 radios offer plenty of features your business seeks – including enhanced call signaling and encryption to prioritize critical communication the moment you need. 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 work crews are on the go – picking up loads, dropping off cargo, repairing roads or restoring power after a storm. That's why you need the far-reaching performance of MOTOTRBO.

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 business. It's easy to migrate to digital with CM7668 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.

ENHANCE YOUR RADIO'S CAPABILITIES

Motorola original® accessories are built with the highest quality standards and are specially engineered to ensure maximum performance of your radio.



RMN5127
IMPRES Keypad
Microphone



RMN5050
Desktop Microphone



RSN4002
13W External Speaker



RSN4005
Desktop Tray with Speaker

CM7668 SPECIFICATIONS

GENERAL SPECIFICATIONS	
COLOUR DISPLAY CM7668	
UHF 1	
Channel Capacity	1000
Typical RF Output	Power 25-40 W
Frequency	403-470 MHz
Dimensions (H x W x L)	53.3 x 175.3 x 205.7 mm
Weight	1.8 kg (3.9 lbs)
Current Drain	Standby 0.81 A max Rx @ Rated Audio 2 A max Transmit 25-45W: 12 A max
Power Supply	13.8 VDC
FCC Description	25-40 W: ABZ99FT4088

RECEIVER	
COLOUR DISPLAY CM7668	
UHF 1	
Frequencies	403-470 MHz
Channel Spacing	12.5 kHz / 25 kHz
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5 ppm
Analog Sensitivity	0.3 uV (20 dB SINAD) 0.22 uV (typical) (20 dB SINAD) 0.4 uV (20 dB SINAD)
Digital Sensitivity	0.25 uV (5% BER), 0.19uV (typical) (5% BER)
Intermodulation (TIA603D) ETS	75 dB 70 dB
Adjacent Channel Selectivity (TIA603D) ETS	55 dB @ 12.5 kHz 75 dB @ 25 kHz 60 dB @ 12.5 kHz 70 dB @ 25 kHz
Spurious Rejection (TIA603D) ETS	75 dB 70 dB
Rated Audio	3 W (Internal), 7.5 W (External - 8 ohms), 13 W (External - 4 ohms)
Audio Distortion @ Rated Audio	3% (typical)
Hum and Noise	-40 dB @ 12.5 kHz / -45 dB @ 25 kHz
Audio Response	+1, -3 dB
Conducted Spurious Emission (TIA603D)	-57 dBm

TRANSMITTER	
COLOUR DISPLAY CM7668	
UHF 1	
Frequencies	403-470 MHz
Channel Spacing	12.5 kHz / 25 kHz
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5 ppm
Power Output	25-40 W
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 / -30dBm > 1GHz
Adjacent Channel Power	60 dB @ 12.5 kHz / 70 dB @ 25 kHz
Audio Response	+1, -3 dB
Audio Distortion	3%
FM Modulation	12.5 kHz: 11K0F3E / 25 kHz: 16K0F3E
4FSK Digital Modulation	12.5 kHz Data Only: 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

PRODUCT SPEC SHEET
MOTOTRBO™ CM7668 MOBILE RADIO

MILITARY STANDARDS: COLOUR DISPLAY CM7668										
	810C		810D		810E		810F		810G	
APPLICABLE MIL-STD	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	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/C3, 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 - Aggravated
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	I/24
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV, V, VI

GPS : COLOUR DISPLAY CM7668	
Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)	
TTFF (Time To First Fix) Cold Start	< 1 minute
TTFF (Time To First Fix) Hot Start	< 10 seconds
Horizontal Accuracy	< 5 meters

BLUETOOTH : COLOUR DISPLAY CM7668	
Version	Supports Bluetooth® 2.1 + EDR Specification
Profiles Supported	Bluetooth Headset Profile (HSP), Serial Port Profile (SPP), Motorola fast push-to-talk.
Devices Supported	Radio supports 1 Bluetooth audio accessory and 1 Bluetooth data device simultaneously
Range	Class 2, 10 meters

ENVIRONMENTAL SPECIFICATIONS: COLOUR DISPLAY CM7668	
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 810C, D, E, F, and G

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

For more information on how to strengthen your mobile voice, visit motorolasolutions.com/ap/mototrbo



Electcoms Berhad (36473-U)
12A, Jalan 13/4, 46200 Petaling Jaya, Selangor Darul Ehsan, Malaysia
+603 7955 8833
sales@electcoms.com.my
www.electcoms.com.my



MOTOTRBO
DIGITAL
REMASTERED.

Motorola Solutions Malaysia Sdn Bhd
14th Floor, Persoft Tower, 6B Persiaran Tropicana, 47410 Petaling Jaya, Selangor Darul Ehsan, Malaysia
motorolasolutions.com

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