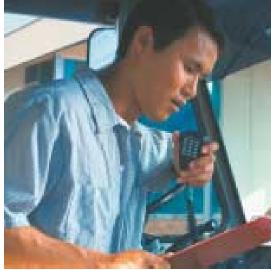
# Trunked Mobile Radio

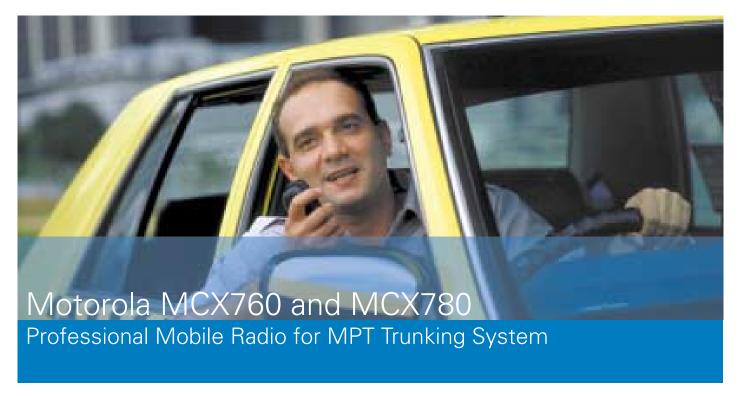
Versatility & Sophistication on the Move MCX760 / MCX780











In today's MPT1327 trunked network, Motorola offers a wide range of trunked mobile radios that enable small & large user groups to tap into the network's vast capabilities. And to enable organisations to achieve high levels of efficiency & productivity, Motorola introduced its latest MPT-Trunked Professional Mobile Radio Series - MCX760 and MCX780.

Whether you are a courier service personnel where information direction is critical, or a police officer needing emergency backup at an accident scene, or from a transportation company that wants to improve its fleet management, both the MCX760 & MCX780 are solutions that let you stay in touch and in control.

Both MCX760 & MCX780 comply with the MPT1327 signalling standard and support major dialling plans such as MPT1343, RegioNet 43 and ANN. Both models are ideally suited for courier, airport, transportation, public safety and security services.

### MCX760 & MCX780 Common Features & Benefits

### **Excellent Audio Clarity**

Motorola's special voice compression and low level expansion technology ensure crisper, clearer and stronger audio quality, allowing you to communicate even in harsh environments.

### **Switchable Channel Spacing**

The MCX760 & MCX780 allow programmable channel spacing of 12.5/20/25kHz, offering flexibility and easy migration of channel spacing, protecting your investment should your country's regulatory channel spacing requirement change.

### Intuitive Menu

The intuitive driven menu consists of features such as one-touch dialing and alphanumeric phonebook, providing users with easy management of the radio functionalities.

### **Built-in Voice Storage**

The built-in voice storage in both MCX760 & MCX780 provides users with a paperless notepad to store and retrieve messages.

### **Dynamic Regrouping**

Users have the flexibility to reassign the radios into new talkgroups for urgent communication via a console, eliminating the need to return the radios to the workshop for re-programming.

### **Remote Mount Control Head**

The remote mount control head can be mounted on the dashboard without the radio chassis. This is especially useful when space is a constraint.

### Status Call/Messaging

Up to 32 pre-defined text messages can be tagged to status codes in the contact list allowing users to send frequently used status messages quickly without the need to talk. The radios can also store up to 10 unread status messages.

### **Short Data Message**

Enable users the flexibility to send and receive short data messages with a maximum of 20 characters per message.



### **COMMON FEATURES**

- Excellent Audio Clarity
- Switchable Channel Spacing
- · Intuitive Menu
- Built-in Voice Storage
- Dynamic Regrouping
- Remote Mount Control Head
- Status Call/Messaging
- Short Data Message

### MCX780 - Sophistication on the Move

The MCX780 is for professionals who need advance level of communication. It is fully equipped to handle sophisticated mixed voice and data operations for the most demanding day-to-day operations. The MCX780 mobile builds on features of the MCX760 mobile and take its users to a higher level of communication capability.

### 7 Customised Buttons

Easy to use, users have greater flexibility to dedicate the most useful operations to these specific buttons for faster one-touch access.

### Large LCD Display

The large alphanumeric display allows users to read up to 4 lines of messages. The display also features a radio signal strength icon that alerts users on the radio signal strength. The radio provides separate distinctive tones and alpha tagging for incoming calls, enabling both audio and text caller identification.

### 60 personalities

Radios can configure up to 60 personalities, with a maximum of 16 talkgroups or conventional channels, offering users the flexibility to meet diverse communication needs.

### **Data Messaging and MAP27**

MCX780 provides data messaging directly from the radio or via the optional MAP27 data interface. Users can send data messages either from the 32 pre-programmed status message in the contact list for instant communication or manually entered alphanumeric text from the keypad. It also enables users to store up to 10 data messages. Data message of any length can also be sent with optional MAP27 data interface.



MCX760



## MCX760 - Versatility on the Go

Offering an expandable list of programmable features, the MCX760's flexibility enables it to grow with the organisation. The versatile MCX760 mobile will keep your productivity at its highest, no matter how fast your business grows.

### Large LCD Display

The large one-line alphanumeric display, with icons such as radio signal indicator & caller identification, makes it easy & clear to read both text and icon displays

### **4 Customised Buttons**

Easy to use, users have the flexibility to dedicate the most commonly used fuctions to these specific buttons for quick one-touch access.

### 4 Personalities

Radios can configure up to 4 MPT personalities, with a maximum of 16 talkgroups or conventional channels.

### Missed Call

Ability to store up to 10 missed call entries, allowing the user to return the calls received, ensuring that important calls will not be missed.

### **Contact list**

Enable users easy access for up to 100 pre-programmed alphanumeric entries.

### **Enhance Your Radio's Capabilities**

A comprehensive range of accessories is also available so that the radios can be customised to suit your needs. Adding the proper handset, speakers, microphones & mounting accessories can enhance your productivity. Motorola accessories are built with the highest quality standards and are specially engineered to assure maximum performance of your radio.



Keypad Microphone AARMN4026



Microphone PMMN4007



Remote Mount Kit RLN4802



Push Button with Remote PT7 RI N4857



Foot Switch with Remote PTT RLN4856

### MCX760 & MCX780 Specifications

General Specifications	VHF	UHF	
* Frequency Range	136-174MHz	403-470MHz450-527MHz	
Frequency Stability (-30C to 60C, 25c Ref.)	± 2.5ppm	± 2ppm	
Channel Capacity	16 channels per conventional mode		
Power Output	1 - 25W		
Power Supply	13.2 Vdc (10.8-15.6 Vdc) Negative Vehicle ground		
Channel Spacing	12.5/20/25 kHz		
Dimensions (L x W x H)			
MCX760: (add 9mm for volume knob)	186mm x 179mm x 59mm		
MCX780: (add 7mm for volume knob)	188mm x 185mm x 72mm		
Weight	1400gms (3.15 lbs)		
Operating Temperature	-30 to +60 degC		
Sealing	Passes rain testing to IP54		
Shock and Vibration	Meets MIL-STD 810-C,D&E and TIA/EIA 603		
Dust	Meets MIL-STD 810-C,D&E and TIA/EIA 603		
Humidity	Meets MIL-STD 810-C,D&E and TIA/EIA 603		

Transmitter	VHF UHF	
Modulation Limiting	± 2.5kHz @ 12.5kHz	
	± 4.0kHz @ 20kHz	
	± 5.0kHz @ 25kHz	
FM Hum & Noise	- 40dB @ 12.5kHz	
	- 45dB @ 20/25kHz	
Conducted/ Radiated Emiss	- 36dBm < 1 GHz	
	- 30dBm > 1 GHz	
Adjacent Channel Power	- 60dB @ 12.5kHz	
	- 70dB @ 20/25kHz	
Audio Response (300 to 3000Hz)	+1, -3dB	
Audio Distortion @ 1000Hz,60% Rated Max. Deviation	3%	

Receiver	VHF	UHF		
Sensitivity (12dBSINAD)	0.30uV (0.22uV typical)	0.30uV (0.22uV typical)		
Intermodulation (EIA)	78dB @ 25kHz	75dB @ 25kHz		
	78dB @ 20kHz	75dB @ 20kHz		
	75dB @ 12.5kHz	75dB @ 12.5kHz		
Adjacent Channel Selectivity	80dB @ 25 kHz	75dB @ 25 KHz		
	70dB @ 20 KHz	70dB @ 20 kHz		
	65dB @ 12.5 kHz	65dB @ 12.5 kHz		
Spurious rejection	80dB @ 20/25 KHz	75dB @ 20/25 kHz		
	75dB @ 12.5 KHz	70dB @ 12.5 kHz		
Rated Audio	3W Internal			
	7.5W & 13W External			
Audio Distortion @ rated audio	3% Typical	3% Typical		
Hum & Noise	- 40dB @ 12.5kHz			
	- 45dB @ 20/25kHz			
Audio Response (300 to 3000Hz)	+1, -3dB	+1, -3dB		
Conducted Spurious Emission	- 57dBm < 1 GHz	- 57dBm < 1 GHz		
per FCC part 15	- 47dBm > 1 GHz	- 47dBm > 1 GHz		

Availability subject to country's law and regulations / Specifications subject to change without notice.
 All specifications shown are typical. Radios meet applicable regulatory requirements.

### Mobile Military Standards 810 C, D, & E

	810 C		810 D		810 E	
Applicable MIL-STD	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2
High Temp	501.1	1, 2	501.2	1, 2	501.3	1, 2
Low Temp	502.1	2	502.2	1, 2	502.3	1, 2
Temp. Shock	503.1	1	503.2	1	503.3	1
Solar Radiation	505.1	1	505.2	1	505.3	1
Rain	506.1	2	506.2	2	506.3	2
Humidity	507.1	2	507.2	2, 3	507.3	3
Salt Fog	509.1	1	509.2	1	509.3	1
Dust	510.1	1	510.2	1	510.3	1
Vibration	514.2	8, 10	514.3	1	514.4	1
Shock	516.2	1, 2, 5	516.3	1	516.4	1

### Two-Year Warranty

Each Motorola radio is backed by a 2 year warranty on radio parts and labour

### Motorola: Reliability & Quality



### ACCELERATED LIFE TESTING

Stringent Motorola Accelerated Life Testing simulating five years of hard use in real life. EIA R5-3168 in Shock, Vibration, Dust, Humidity, IP54 for Sealing.



### MIL-STD 810C, D AND E

Stamp of approval from the U.S. Military for use in rough environments.



ISO 9001 STANDARD

Compliance with ISO 9001 Standard - on international quality system assurance on design, development, production, installation and servicing of a product.

