

Motorola MTX850, MTX8250, MTX950 and MTX9250 Two-Way Radios

For Professional Radio Privacy Plus™ Systems



Small, Lightweight and Durable...
So advanced, it practically thinks for you.

MTX8250/MTX9250

**15 Trunked Systems,
160 Trunked Talkgroups and
Conventional Channels
Combined**

MTX850/MTX950

**9 Trunked Systems,
16 Trunked Talkgroups and
Conventional Channels
Combined**

BOTH FEATURE

Call Alert (Receive)
Incoming call alert

Scan
Set frequency and type of
transmissions to scan

**Telephone Interconnect
Capability (Receive)**
Receive phone calls

**Private Conversation™
(Receive)**
Allows you to receive
confidential calls

Failsoft
Ensures continuous
communication during
interruptions in trunked
system service

**4 Programmable
Buttons**

ADDITIONAL MTX8250/MTX9250 FEATURES

Battery Gauge
For at-a-glance battery
life levels

**14-Character
Alphanumeric Display with
User-Friendly Icons**
Identifies trunked zones,
talkgroups, and conventional
channels

Menu Buttons
Quick access to many
features using only a few
multi-function buttons —
eliminating the need to have
a dedicated key for each
feature

PLUS

In addition to all the
MTX850 and MTX950
features shown left, the
MTX8250 and MTX9250
models also offer:

Conventional Talkaround
Unit-to-unit communications, bypassing
the repeater for use when outside
repeater range

User-Defined Lists
Change scan, phone and call lists easily

**Telephone Interconnect Capability
(Send/Receive)**
Place and receive phone calls

**Front Panel
Programmable Phone List**
Store and retrieve phone numbers

Push-to-Talk ID
Shows the identity of callers on the
radio's display via name or radio ID

Call Alert (Send/Receive)
Notifies users that you're trying to
reach them

**Private Conversation™
(Send/Receive)**
Allows you to send and receive
confidential calls to other users

As Dedicated As You Are®

Intelligent Radio

So advanced, it practically thinks for you.

MTX Series Privacy Plus Radios: The Smart Business Choice...Don't wait to Make your Next Smart Move.



Powerful

Innovative Motorola MTX850, MTX8250, MTX950, and MTX9250 portable two-way radios deliver everything needed for business communication. Designed to operate on Motorola's exclusive Type II and Type III Privacy Plus™ trunking systems, these radios can help enhance communication by providing a wider calling range, faster channel access, greater privacy and higher user and talkgroup capacity.

Flexible

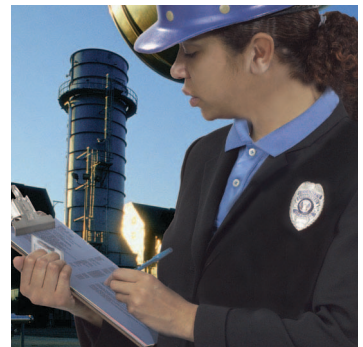
All of these radios offer remarkable ease of use and unsurpassed functionality at the touch of a button including:

- Scanning capabilities provide flexibility in programming so these radios will scan only selected transmissions
- Motorola Private Conversation™ provides confidentiality for calls when you want to ensure others won't listen in
- Failsafe operation helps guarantee continual communication in the event of interruption of trunked system service
- Large 14-character alphanumeric display with user-friendly icons provides quick access to features and commands eliminating dedicated keys for each feature
- Easy reprogramming capabilities helps ensure radio readiness as your business grows and changes

Reliable

For more than 65 years, Motorola has been a leader in creating state-of-the-art wireless communications for businesses like yours. Each MTX Series Privacy Plus radio is backed by a limited two-year* warranty on parts and labor. So when you select the MTX850, MTX8250, MTX950 or MTX9250 two-way radios, you'll experience the same superior quality you've come to expect from all Motorola products. Making wise decisions is nothing new to you. So don't wait to make your next smart move.

* Radio accessories are covered by Motorola's one-year accessories warranty.



Motorola Two-Way Radio: Communication to Count On

Success in today's business world depends on exceptional performance. To stay ahead, you have to make every minute count — and every dollar. You also need fast, dependable access to the right people and information so you can get the job done. Two-way radio helps you stay connected so you can maximize productivity and meet your customers' demands. By simply pressing a button, you can talk with one, one dozen, or one hundred people instantly. And when you choose a Motorola Professional Radio, you know you're getting a product specifically designed to meet your needs.

The wide range of Motorola Original® accessories available for MTX Series Privacy Plus radios helps make it easy to expand and customize their capabilities to fit your business requirements.

Audio Accessories

Headsets give your MTX850, MTX8250, MTX950, and MTX9250 radios enhanced sound clarity — especially useful in noisy environments. Remote speaker microphones allow radio use without lifting it out of its carry case. Comfortable earpieces mute the radio speaker and channel the audio directly to the ear, particularly useful when privacy is important.

Batteries and Chargers

Motorola high and ultra high-capacity batteries boost the performance of MTX Series Privacy Plus radios to help ensure that it's ready when needed. Compact lithium ion batteries are ideal for users who prefer a slimmer, lighter radio and spark-free Factory Mutual Approved batteries are available for use in high-risk environments. Single and six-unit chargers can charge spare batteries in one to three hours, minimizing radio down time.

Carry Cases and Belt Clips

Handy leather or nylon carry cases as well as belt clips are designed to help protect your MTX850, MTX8250, MTX950 or MTX9250 radio and hold it snugly in place, making it easy and comfortable to carry.



On a construction site, workers need the right equipment at the right time. The MTX Series of Professional radios give you the power to get the job done.

General for 800 and 900 MHz		MTX850/950		MTX8250/9250			
Channel Capacity: Trunked Systems:		9		15			
Trunked Talkgroups and Conventional Channels Combined:		16		160			
Trunking Signaling:		Type II and Type III		Type II and Type III			
Power Supply:		Rechargeable battery 7.5V		Rechargeable battery 7.5V			
Dimensions (H x W x D): With NiMH High Capacity Battery:		5.40 x 2.26 x 1.50 inches (137.0 x 57.5 x 37.5 mm)		5.40 x 2.26 x 1.50 inches (137.0 x 57.5 x 37.5 mm)			
With NiMH Ultra-High Capacity Battery:		5.40 x 2.26 x 1.60 inches (137.0 x 57.5 x 40.0 mm)		5.40 x 2.26 x 1.60 inches (137.0 x 57.5 x 40.0 mm)			
With NiCd Battery:		5.40 x 2.26 x 1.60 inches (137.0 x 57.5 x 40.0 mm)		5.40 x 2.26 x 1.60 inches (137.0 x 57.5 x 40.0 mm)			
With Li-ion Battery:		5.40 x 2.26 x 1.30 inches (137.0 x 57.5 x 33.0 mm)		5.40 x 2.26 x 1.30 inches (137.0 x 57.5 x 33.0 mm)			
Weight: With NiMH High Capacity Battery:		15.0 oz. (420g)		15.0 oz. (420g)			
With NiMH Ultra-High Capacity Battery:		17.5 oz. (500g)		17.5 oz. (500g)			
With NiCd Battery:		15.8 oz. (450g)		15.8 oz. (450g)			
With Li-ion Battery:		12.5 oz. (350g)		12.5 oz. (350g)			
Average Battery Life @ 5/5/90 Duty Cycle (all models):		Low Power High Power		Low Power High Power			
With NiMH High Capacity Battery:		9 hrs 8 hrs		9 hrs 8 hrs			
With NiMH Ultra-High Capacity Battery:		14 hrs 11 hrs		14 hrs 11 hrs			
With NiCd Battery:		9 hrs 8 hrs		9 hrs 8 hrs			
With Li-ion Battery:		9 hrs 8 hrs		9 hrs 8 hrs			
Transmitter		800 MHz (MTX 850/8250)		900 MHz (MTX950/9250)			
Frequency Range.*		806 - 821 MHz		896 - 902 MHz			
Transmit:		851 - 866 MHz		935 - 941 MHz			
Talkaround:		2.5 W (806 - 821 MHz)		2.5 W (896 - 902 MHz)			
Power Output:		2 W (851 - 866 MHz)		2.5 W (935 - 941 MHz)			
Frequency Stability (-30° C to +60° C, +25° Ref):		± 2.5 ppm		± 1.5 ppm			
Modulation Limiting:		± 5 KHz @ 806 - 821 MHz		± 2.5 KHz			
Emission (Conducted & Radiated):		-13 dBm per FCC		-13 dBm per FCC			
Channel Spacing:		25 KHz		12.5 KHz			
FM Hum and Noise (Companion Receiver):		-40 dB		-45 dB**			
Audio Response (from 6dB/octave pre-emphasis, 300 - 3000 Hz):		+1 to -3 dB		+1 to -3 dB			
Audio Distortion:		3%		3%			
FM Modulation:		16K0F3E		16K0F3			
Receiver		851 - 866 MHz		935 - 941 MHz			
Frequency Range:		851 - 866 MHz		935 - 941 MHz			
Hum and Noise:		-45 dB		-45 dB**			
Sensitivity (12 dB SINAD) EIA:		.35 µV		.35 µV			
Channel Spacing:		25 KHz		12.5 KHz			
Intermodulation:		-70 dB		-65 dB			
Adjacent Channel Selectivity:		-70 dB		-60 dB			
Spurious Rejection:		-70 dB		-70 dB			
Rated Audio:		0.5 W		0.5 W			
Audio Distortion @ Rated Audio:		3% typical		3% typical			
Audio Response (from 6 dB/octave de-emphasis, 300 - 3000 Hz):		+1 to -3 dB		+1 to -3 dB			
Conducted Spurious Emission:		-57 dBm		-57 dBm			
Environmental		MTX 850/8250		MTX950/9250			
Operating Temperature:		-30° to +60° C		-30° to +60° C			
Storage Temperature:		-55° to +85° C		-55° to +85° C			
Humidity:		95% RH @ 8 Hr.		95% RH @ 8 Hr.			
ESD:		IEC 801-2 KV		IEC 801-2 KV			
Water Intrusion:		IP54		IP54			
Portable Military Standards 8 1 0 C, D, & E		810C		810D		810E	
Applicable MIL-STD		Methods/Procedures		Methods/Procedures		Methods/Procedures	
Low Pressure:		500.1/1		500.2/2		500.3/2	
High Temperature:		501.1/1, 2		501.2/1, 2		501.3/1, 2	
Low Temperature:		502.1/2		502.2/1, 2		502.3/1, 2	
Temperature Shock:		503.1/1		503.2/1		503.3/1	
Solar Radiation:		505.1/1		505.2/1		505.3/1	
Rain:		506.1/1, 2		506.2/1, 2		506.3/1, 2	
Humidity:		507.1/2		507.2/2, 3		507.3/2, 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, 4		516.4/1, 4*	

Factory Mutual has given the MTX850, MTX8250, MTX950, and MTX9250 an intrinsically safe rating for use in classes I, II, III, Division 1, Groups C, D, E, F and G, as well as non-incendive use in Class 1, Division 2, Groups A, B, C and D on models ordered with the Factory Mutual option.

*Note: This equipment is not authorized by the FCC for public safety use in the 821-825/866-870 MHz band in the United States.

**With Hear Clear

