

# MTX 9000

T R U N K E D P O R T A B L E R A D I O S

## L I S T E N

The **MTX 9000** series portable . . . Motorola's newest generation of two-way trunked radios . . . helping you take advantage of the **Privacy Plus** potential.

### Maximum Flexibility . . . Maximum Capability

Three **MTX 9000** models range from basic talk-and-listen to maximum feature capability. They provide all the benefits of our trunked systems **plus** talkaround capability. That means uninterrupted communications, even in fringe areas.

### Small Package . . . Powerful Punch

Three watts of power in the smallest Motorola trunked radio yet . . . and our noise reduction microphone lets your audio come through clearly and without distortion, even in noisy environments. The **MTX 9000** radio is packed with work-saving features including:

- **Paging in Your Radio** — When you're having difficulty reaching someone, try **Call Alert**. Four beeps every five seconds will indicate your call . . . and the radio won't stop beeping until the PTT is pushed. On advanced models, a flashing display gives an additional alert. And your sending unit receives an acknowledgement that your page got through.
- **Keeping You in Touch** — Available on all models, **talkgroup scan** lets you monitor any combination of trunked systems, subfleets, or conventional channels in the same scan list. The 14-character alphanumeric display on advanced models lets you assign real names to systems and subfleets as well as list members.
- **Privacy to Discuss Sensitive Issues** — With **Private Conversation**, you can have a one-to-one conversation within your radio fleet . . . and no one else in your fleet will hear you.
- **Telephone Communications** — When you need to talk to a customer, supplier, or someone else outside your radio network, you can even make phone calls via the radio's **telephone interconnect** capability.

To customize Call Alert, Private Conversation, and telephone interconnect features, you can choose an **MTX 9000** receive-only model, or a model that can receive and send via a list or the keypad.

As all Motorola's products, the **MTX 9000** radio is subjected during the design stages to our unique Accelerated Life Test (ALT), simulating five years of intensive field stress in a few weeks. The result: you can count on rugged, reliable radio performance, even under harsh conditions.

Never before has communication been so crucial . . . and so clear and simple.

Listen . . . to an evolution in sound.



**MOTOROLA**



# MTX 9000

## PORTABLE RADIO FOR PRIVACY PLUS OPERATION

### Performance Specifications/General (Per EIA316B unless otherwise specified)

<b>Model:</b>	H01WCC4DB3__N, H01WCF4DB5__N, H01WCH4DB7__N	
<b>FCC Designation:</b>	AZ489FT5748	
<b>Power Supply:</b>	One rechargeable NiCd battery	
<b>Battery Voltage</b>	Nominal: 7.5 volts	Range: 6 to 9 volts
<b>Temperature Range</b>	Operating: -30° to +60°C	Storage: -40° to +85°C
<b>Dimensions</b>		
	<b>B3</b>	<b>B5, B7</b>
<b>Radio Only:</b>	6.30" H <sup>1</sup> x 2.34" W <sup>2</sup> x 0.64" D <sup>3</sup>	6.30" H <sup>1</sup> x 2.34" W <sup>2</sup> x 0.74" D <sup>3</sup>
<b>With High Capacity Battery:</b>	6.30" H <sup>1</sup> x 2.34" W <sup>2</sup> x 1.31" D <sup>3</sup>	6.30" H <sup>1</sup> x 2.34" W <sup>2</sup> x 1.41" D <sup>3</sup>
<b>With Ultra High Capacity Battery:</b>	6.30" H <sup>1</sup> x 2.34" W <sup>2</sup> x 1.44" D <sup>3</sup>	6.30" H <sup>1</sup> x 2.34" W <sup>2</sup> x 1.54" D <sup>3</sup>
<b>Weight <sup>4</sup></b>		
	<b>B3</b>	<b>B5, B7</b>
<b>Radio Only:</b>	10.2 oz.	10.9 oz.
<b>With High Capacity Battery:</b>	18.3 oz.	19.0 oz.
<b>With Ultra High Capacity Battery:</b>	19.4 oz.	20.1 oz.

<sup>1</sup> Measured from base of radio to base of knobs. Add 0.97" for height over frequency knob.  
<sup>3</sup> All depths measured below speaker area. All radios are 1.49" D at top.

<sup>2</sup> Measured across radio below PTT area. Radio is 2.465" across PTT bumps.  
<sup>4</sup> Weight does not include antenna. Add approximately 0.6 oz. for antenna.

### Receiver

	Guaranteed	Typical	Test Method
<b>Frequency Range</b>	935-941 MHz		
<b>Bandwidth</b>	6 MHz		
<b>Channel Spacing</b>	12.5 kHz	12.5 kHz	
<b>Quieting Sensitivity (20 dBQ) Max</b>	0.5 $\mu$ V	0.41 $\mu$ V	RS316, 3.7
<b>Usable Sensitivity (12 dB SINAD) Max</b>	0.35 $\mu$ V	0.28 $\mu$ V	EIA204D, 7
<b>Intermodulation</b>	-60 dB	-62 dB	
<b>Selectivity (Adjacent Channel)</b>	-60 dB	-63 dB	EIA204D, 12 (MOD)
<b>Usable BW (Phase Lock Mode)</b>	2.5 kHz		EIA204D
<b>Frequency Stability</b>	1.5 ppm	1 ppm	
<b>Rated Audio</b>	500 mW		
<b>Distortion at Rated Audio Max</b>	5%	3.5%	EIA204D, 10
<b>Radiated Emission</b>	-47 dBm	-54 dBm	FCC
<b>Spurious Response Rejection</b>	-60 dB	-69 dB	EIA204D, 13

### Features

B3 Model	B5 Model	B7 Model
4 systems	15 systems	15 systems
4 subfleets	10 subfleets	10 subfleets
Conventional Capability	10 conventional	10 conventional
Talkgroup Scan	14-character	14-character
Private Conversation	Alphanumeric display	Alphanumeric display
Response	Talkgroup Scan	Talkgroup Scan
Call Alert Decode	Private Conversation	Unlimited Private
Receive Telephone Interconnect	List capability	Conversation
	Call Alert List capability	Unlimited Call Alert
	Telephone Interconnect	Unlimited Telephone
	List capability	Interconnect

### Transmitter

	Guaranteed	Typical	Test Method
<b>RF Power Min.</b>	3 W	3.3 W	
<b>Frequency Range</b>	896-902 MHz		
	935-941 MHz		
<b>Frequency Stability</b>	1.5 ppm	1 ppm	
<b>Conducted Emission</b>	-46 dBW	-53 dBW	EIA152C, 4
<b>Radiated Emission</b>	-46 dBW	-48 dBW	FCC
<b>FM Hum and Noise</b>	-45 dB *	-45 dB *	EIA152C, 4 (Comp. RX)
<b>Audio Distortion</b>	5%	3%	EIA152C, 6
<b>Modulation Limiting</b>	2.5 kHz		FCC

\* with HearClear

### Batteries for MTX 9000 Radio

Battery Life (5/5/90 duty cycle)	@ 3W
<b>Hours of Operation, High Capacity Battery</b>	8.0
<b>Hours of Operation, Ultra High Capacity Battery</b>	9.0

### Radio Service Software

Model:	Disk Type:
RVN-4098	5¼" and 3½"

MTX radios meet or exceed all requirements for MIL STD 810 C, D, and E.



#### Support Services

Wherever Motorola sells, our product is backed by service. Our products are serviced throughout the world by a wide network of company or authorized independent distributor service organizations.



## MOTOROLA

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