


# MTP3000 SERIES SAFER, TOUGHER, EASIER TO USE



INTRODUCING MOTOROLA'S NEW TETRA RADIO





## **MOTOROLA TETRA SOLUTIONS** DESIGNED TO WORK IN THE TOUGHEST, MOST DEMANDING ENVIRONMENTS, DAY IN, DAY OUT.

The MTP3000 Series is a continuing sign of the evolution of TETRA. This radio is the pinnacle of 15 years of focus on improving user safety, enhancing efficiency and improving communications. We believe the MTP3000 Series will do more than any other radio in helping our customers meet their operation goals and targets.

### **THE KEY BENEFITS OF THE MTP3000 SERIES**

#### **STAY IN TOUCH**

Be safer and more effective with greater coverage and in-building performance with the high-sensitivity receiver and Class 3L (1.8W) power.

#### **HEAR AND BE HEARD**

Outstanding audio means you can be safe and effective in the most noisy and difficult environments.



## SAFER

### SUPERIOR AUDIO AND INCREASED RANGE



## TOUGHER

### DURABLE CONNECTORS AND RUGGED DESIGN



## EASIER TO USE

### INTUITIVE HARDWARE AND SOFTWARE FEATURES

#### SAFER

Where safety is paramount, these TETRA radios are optimised for excellent audio performance in all types of noisy and demanding situations. Audio through both the speaker and accessories is clearer even at full volume. The Slimport speaker ensures even distribution of sound all around the radio wherever it is worn. Intelligent microphone eliminates the need for audio profiles as it adapts very loud or soft speech for onward transmission through the TETRA network.

With high receiver sensitivity, the MTP3000 Series has the capability for maintaining communications in the most demanding situations at long range, in rocky areas. Providing higher power will further increase range and in-building performance, and so Motorola has added industry challenging Class 3L (1.8W) power output option.

MTP3000 Series also comes with optional colour identification bands around the antenna. This identifies the radio for user groups with different tasks, coverage area, shift, etc.



#### TOUGHER

The MTP3000 Series is fitted with two new connectors to provide excellent corrosion resistance, ruggedness, conductivity and low insertion resistance. The side connector has excellent pull strength. The bottom connector has a self cleaning mechanism to resist dust and dirt, is easy to clean, and is protected inside the radio.

The MTP3000 Series has been made to the highest quality levels and exceeds all 11 categories in the MIL-810 standard. Further, like all Motorola TETRA radios, MTP3000 Series has been designed to pass an Accelerated Life Test simulating over 5 years use; these tests ensure it will withstand tough conditions and provide durability that helps to drive down lifecycle support costs.

#### EASIER

The two knob interface will suit users migrating from an analogue radio, or are familiar with two control knobs. Also the new side connector is very easy and fast to connect and detach. The wide trans-reflective screen displays additional characters and is easy to see in both low light and direct sunlight. Accessory profiles are built into the radios for the wide range of Motorola supplied accessories.

The keypad uses angled keys to make it easy to use and avoid pressing the wrong keys.

To minimise staff training costs, MTP3000 Series leverages an instantly familiar cellular phone style user interface. It also includes a large colour (or greyscale) display that supports 262,144 vivid colours and large scalable fonts. Usability is further enhanced through a customisable menu and simplified keypad that combine to make device interaction fast and intuitive.

#### BUILT FOR A TOUGH WORLD

Robust connectors withstand hard use and dirty environments. IP65 for all weather and water jet protection.

#### PICK IT UP AND USE IT FAST

Transition quickly from analogue radios with two control knobs. Navigate quickly through the simple user interface on the clear screen.

#### CUSTOMISE FOR THE END USER

Tough and effective range of audio and energy accessories suitable for the same rough use as the radio.

# MTP3000 SERIES

The **MTP3000 Series** radios are packed with features which are essential for safe and effective operations, as well as significant improvements in areas such as audio and ruggedness. The user interface is optimised for those making the transition from analogue radios and includes two controls for group and volume.

**MTP3100**, the entry level radio, packing-in all the TETRA essentials.

**MTP3250**, the radio for users who require a fully-featured TETRA radio with a full keypad.



MTP3250

MTP3100

## SAFETY AT THE HEART



The MTP3000 Series has been designed and tested to enhance the safety of all types of personnel. As well as being built for exceptional reliability and ruggedness, the high power ultra-clear audio means that the message will get through in very noisy situations. The Slimport feature means that the radio speaker can be heard from a wide range of directions whether held in the hand or attached to a vest or belt.

Enhanced receiver sensitivity and DMO repeater functionality means excellent coverage in buildings and over extended areas.



Hard leather case with 3" swivel belt loop, fits simple and full keypad models.



Enhanced large remote speaker microphone with noise-canceling microphone, loud audio, audio jack and emergency button, IP54.



Dual-muff over the head headset with boom microphone and in-line push-to-talk, 24 dB NRR.

**YOUR LIFELINE WHEN TIME IS CRITICAL**

# MTP3000 SERIES ACCESSORIES EXCEPTIONAL PERFORMANCE. EVERYDAY TOUGHNESS.

Whether on patrol or calling maintenance to a bustling metro station, you depend on communications that perform in demanding environments.

That's why it's critical to choose accessories designed, tested and certified to work optimally with Motorola TETRA radios. Our comprehensive portfolio of MTP3000 Series accessories delivers on that promise – with improved connectors and new enhancements for exceptional audio.

## **STRONGER, SECURE CONNECTIONS**

From the control centre to out in the field, our MTP3000 Series accessories are robust, reliable and tough enough for the most action packed days. A newly designed, durable, compact, 8-pin connector ensures the accessory stays attached – whether you're jumping over barriers or conducting site visits. With its tightly sealed radio interface and IP65 rating, your accessory can be exposed to water without losing the connection. Yet the connector is so slim, it won't add bulk to the radio.

## **EXCEPTIONAL AUDIO EVERY DAY**

The audio profiles on our MTP3000 Series accessories make hearing clearly almost effortless. They ensure you get the best performance possible by adapting the audio to how the accessory is worn – in the ear, on your shoulder and more. Simply plug in the accessory and select your accessory from the menu to experience exceptional audio. When it comes to high performing accessories at an affordable price, count on Mag One, the only value-line accessories tested and certified by Motorola.

## **IMPRES PROVIDES INSTANT IDENTIFICATION**

Plug in an accessory from our IMPRES line – such as the remote speaker microphone (RSM) – and your radio automatically identifies it and loads the correct profile to optimise audio performance. What's more, our IMPRES large-speaker RSM matches the high-powered speaker on your radio for even better communications in high-noise environments – essential for noisy crowds or heavy traffic.



## **TERMINAL SERVICES - ENSURING MAXIMUM PERFORMANCE TO MEET YOUR MISSION CRITICAL REQUIREMENTS**

### **SERVICE CENTRE EXCELLENCE:**

We deliver. With our proven capability, you can be sure your equipment is expertly repaired and back in the hands of your users quickly. Using the latest tools and with strict adherence to Motorola engineering procedures, our expert technicians diagnose and repair units to original manufacturing specifications.

### **TECHNICAL EXPERTISE:**

Get answers to your technical questions, reduce downtime and improve issue resolution times. Experienced technical support engineers work with you to diagnose and resolve hardware and software problems resulting in swift resolution of issues for your end users.

### **CUSTOMER SERVICE:**

A source for support to track customer issues. Ready to assist by telephone, e-mail or fax.

### **CERTIFIED SOLUTIONS:**

All our services are fully certified to comply with ISO, ATEX / FM and CENELEC thereby providing the peace of mind that can only come from an experienced and trusted supplier.

### **DEFINED SERVICE LEVEL AGREEMENTS (SLAS):**

All Motorola services are offered to committed SLAs including turnaround times.



# SPECIFICATIONS

**SAFER**  
SUPERIOR AUDIO AND  
INCREASED RANGE

**TOUGHER**  
DURABLE CONNECTORS  
AND RUGGED DESIGN

**EASIER**  
INTUITIVE HARDWARE  
AND SOFTWARE FEATURES



	MTP3100	MTP3250
Bluetooth*	No	Yes
GPS*	No	Yes
Keypad	Simple	Full
MSPD*	No	Yes

## GENERAL

Dimensions HxWxD mm	124 x 53 x 33.5 (with standard battery)
Weight	273 g (radio with 1650 mAH battery and antenna)
Battery Performance (Class 4 and 1650 mAH battery)	Duty Cycle 5/5/90 > 16 Hours Duty Cycle 5/35/60 > 12 Hours
Battery (Li Ion 1650 mAh and 2150 mAh)	

## RF SPECIFICATIONS

Frequency Bands	800 MHz
Transmitter RF	Power Class 3L (1.8 W) & Class 4 (1 W)
Receiver Class	A and B
Rx Static Sensitivity	-114 dBm (min); -116 dBm (typical)
Rx Dynamic Sensitivity	-105 dBm (min); -107 dBm (typical);

## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature °C	-30 to +60
Storage Temperature °C	-40 to +85
Humidity	ETSI 300 019-1-7 class 7.3E
Dust and Water Ingress Protection	IP65 per IEC 60529
Shock, drop and vibration	ETSI 300-019 1-7 class 5M3; MIL-STD 810 D/E/F

## LICENCES/OPTIONS

### Efficiency

Language & Keypad Options  
DMO Repeater\*  
RUA/RUI\*  
MSPD\*  
SCCH  
RMS\*  
Call Out\*  
WAP push\*

### Safety

GPS\*

## SECURITY SERVICES

Enhanced Security - OTAR/DMO SCK\*  
Authentication (Mutual)  
Air Interface Encryption Class 1, 2, and 3  
Permanent Disable\*  
Temporary Disable\*

## MAIN DATA SERVICES

MSPD\*  
SDS Messaging in TMO & DMO  
AT Commands Full Set of AT Commands (including Voice Control)  
Short Data Applications  
TNP1 Simultaneous operation of Packet Data and Short Data  
Services over a common Peripheral Equipment Interface (PEI)  
iTM Fleet Management (Remote Programming )

## LOCATION SERVICES

Simultaneous Satellites	12
GPS antenna integrated into the external radio antenna	
Tracking Sensitivity	-160 dBm
Accuracy	2 metre (50% probable) @ -130 dBm
Protocols	ETSI LIP & Motorola LRRP

## USER INTERFACE

Easy to use separate volume and talkgroup knobs	Contact List up to 1000 contacts up to 6 numbers per contact, max 2000 numbers
Colour Transflective Display 132x90 pixel screen with 262, 144 vivid colours - viewable in bright sunlight	Multiple Dialling Methods user selects how to dial
Flip screen and large/x-large text & icon options Backlight	Fast/Flexible Call Response Private Call Response to a Group Call via One Touch Button
Screen Saver gif image & text (any user's selection)	Multiple Ring Tones
Universal Time Display	Message Manager Cellular Type (Flexible)
Multiple Languages	Text message list 20
Keypad Lock	Intelligent Keypad Text Input (MTP3250)
Talkgroup Management User friendly, flexible, efficient, fast	Status list 400
Talkgroups – TMO Folders 256, TMO Unique 2048, TMO Instances 4000	Country/Network Code List 100
Talkgroups – DMO Folders 128, DMO Groups 1024	Scan lists 40 lists of 20 groups
Favourite Folders Up to 3 (to store any favourite talkgroup)	User Controls
Menu Tailored to user needs	One touch Buttons & Keys each button key can be programmed with one of the multiple functions available
Menu Shortcuts	Covert Mode
Menu Configuration	
Contacts Management Cellular Type (Rapid Search)	

## MAIN VOICE SERVICES

Full Duplex TMO Private, PABX, PSTN, Emergency	Individual Emergency Call to PREDEFINED party (half/full duplex)
Half Duplex TMO Private, Group, Emergency	HOT MIC talk without need to PTT (user enabled)
Half Duplex DMO Private, Group, Emergency	Status Msg sent to dispatch console (user enabled)
Inter-MNI, Gateway, Repeater	DMO to TMO enter DMO emergency (with/without gateway) or enter TMO emergency
Dialling Direct, Scroll, Speed, One touch button/key,	Preemptive Priority Calls
AlphaNumeric Search, Call History Redial	Call Out*
Emergency Tactical Emergency Group Call to ATTACHED talkgroup	PTT Double Push
(tailored by users) Non-Tactical Emergency Group Call to DEDICATED talkgroup	Adaptive Audio Control

## OTHERS

Robust and 'quick connect' side connector with high-performance matching accessories	SLIM connector Accessories interface
Robust bottom connector	Identification ring on antenna
Loud and clear Audio – 2 Wrms Audio power (4 W peak) through radio and accessories	



# **MTP3000 SERIES** **YOUR LIFELINE WHEN** **TIME IS CRITICAL**

To learn more, visit us on the web at: [www.motorolasolutions.com/au](http://www.motorolasolutions.com/au)

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