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.
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 built up areas and in buildings. 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.

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.

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.

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.

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.

YOUR LIFELINE WHEN TIME IS CRITICAL
Whether chasing a suspect down a busy street 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 pipeline to the fire line, our MTP3000 Series accessories are so robust and reliable, tough enough for your most action packed days. A newly designed, durable, compact, 8-pin connector ensures the accessory stays attached—whether you’re jumping over barriers or climbing up ladders. 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**

<table>
<thead>
<tr>
<th></th>
<th>MTP3100</th>
<th>MTP3250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluetooth*</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td>Keypad</td>
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<td>MSPD*</td>
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**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: 350-430 MHz, 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 5G3; 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 TM0 & 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)

*SW Upgradable
LOCATION SERVICES

Simultaneous Satellites 12

GPS antenna integrated into the external radio antenna

Tracking Sensitivity -160 dBm

Accuracy 2 metre (50% probable) Ø -130 dBm

Protocols ETS/LIP & Motorola LRRP

USER INTERFACE

Easy to use separate volume and talkgroup knobs

Colour Transreflective Display 132x90 pixel screen with 262, 144 vivid colours - viewable in bright sunlight

Flip screen and large/x-large text & icon options Backlight

Screen Saver gif image & text (any user's selection)

Universal Time Display

Multiple Languages

Keypad Lock

Talkgroup Management User friendly, flexible, efficient, fast

Talkgroups – TMO Folders 256, TMO Unique 2048, TMO Instances 4000

Talkgroups – DMO Folders 128, DMO Groups 1024

Favourite Folders Up to 3 (to store any favourite talkgroup)

Menu Tailored to user needs

Menu Shortcuts

Menu Configuration

Contacts Management Cellular Type (Rapid Search)

USER INTERFACE

Contact List up to 1000 contacts up to 6 numbers per contact, max 2000 numbers

Multiple Dialling Methods user selects how to dial

Fast/Flexible Call Response Private Call Response to a Group Call via One Touch Button

MultiTouch Ring Tones

Message Manager Cellular Type (Flexible)

Text message list 20

Text message list 20

Text message list 20

Text message list 20

Text message list 20

Intelligent Keypad Text Input (MTP250)

Status list 400

Country/Network Code List 100

Scan lists 40 lists of 20 groups

User Controls

One touch Buttons & Keys each button key can be programmed with one of the multiple functions available

Covert Mode

MAIN VOICE SERVICES

Full Duplex TMO Private, PABX, PSTN, Emergency

Half Duplex TMO Private, Group, Emergency

Half Duplex DMO Private, Group, Emergency

Inter-MNI, Gateway, Repeater

Dialling Direct, Scroll, Speed, One touch button/key,

AlphaNumeric Search, Call History Redial

Emergency Tactical Emergency Group Call to ATTACHED talkgroup

(tailored by users) Non-Tactical Emergency Group Call to DEDICATED talkgroup

Individual Emergency Call to PREDEFINED party (half/full duplex)

HIT MIC talk without need to PTT (user enabled)

Status Msg sent to dispatch console (user enabled)

DMO to TMO enter DMO emergency (with/without gateway)

or enter TMO emergency

Preemptive Priority Calls

Call Out*

PTT Double Push

Adaptive Audio Control

OTHERS

Robust and 'quick connect' side connector with high-performance matching accessories

Robust bottom connector

Loud and clear Audio – 2 Wrms Audio power (4 W peak) through radio and accessories

SLIM connector Accessories interface

Identification ring on antenna

A full range of matching and high performance accessories are available in the MTP3000 Series Accessory Catalogue by visiting www.motorolasolutions.com/MTP3000

*SW Upgradable
MTP3000 SERIES
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For more information on the MTP3000 Series radios, please visit us on the web at:
www.motorolasolutions.com/MTP3000