For more information on the MTP3000 Series TETRA radios, please visit www.motorolasolutions.com.au

MTP3000 SERIES TETRA RADIOS
SAFER.
TOUGHER.
EASIER TO USE.

ENHANCED FAMILY INCLUDING MTP3500 AND MTP3550
The MTP3000 Series radios are the result of more than 15 years of focus in TETRA on increasing user safety, enhancing efficiency and improving communications. The 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 MTP3000 Series radios have all been enhanced with IP65, IP66 and IP67 for dust and water ingress protection, support for 450-470 MHz and 800 MHz as well as an RFID hardware option.

The MTP3100 is the entry level radio packing in all the TETRA essentials and providing an easy transition from analogue to digital radio.

The MTP3250 now includes secure Bluetooth for users who require a feature rich TETRA radio.

The new MTP3500 and MTP3550 radios will further enhance the MTP3000 Series delivering a fully featured radio for mission critical users with the addition of new options, including a man down sensor, vibrate alert and End-to-End Encryption (E2EE).
SAFER
SUPERIOR AUDIO AND INCREASED RANGE
The MTP3000 Series is 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, and the user can be heard above loud background noise.

Hardware enabled End-to-End Encryption (E2EE) is the most secure method for preventing the interception of critical voice or data communications.

High receiver sensitivity and high transmit power gives the MTP3000 Series the capability to maintain communications in the most demanding situations at long range, in built up areas and in buildings.

The man down sensor detects whether a radio has been static for a preset time, or has tilted beyond a preset angle. Man down is of particular value for the protection of lone security personnel or mining workers operating in hazardous environments.

TOUGHER
DURABLE CONNECTORS AND RUGGED DESIGN
The MTP3000 Series is fitted with two new connectors to provide 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 radios.

With IP65, IP66 and IP67 these radios can withstand immersion in a metre of water for 30 minutes, or a high pressure water jet from a fire hose.

EASIER
INTUITIVE HARDWARE AND SOFTWARE FEATURES
The two knob interface will suit users migrating from an analogue radio. The wide transflective screen displays additional characters and is easy to see in both low light and direct sunlight.

Vibrate alert for incoming calls and messages will allow workers to stay covert or be discreet when silence matter.

The MTP3000 Series also come with optional colour identification bands around the antenna. This identifies the radio for user groups with different tasks, coverage area or shifts.

Note: features are model dependant
POWERFUL APPLICATIONS ENABLED WITH SECURE BLUETOOTH

The MTP3000 Series radios are fitted with advanced Bluetooth technology, providing a secure wireless link which opens up a world of possibilities for connecting the radio with devices matched to the specific needs of end users. These collaborative solutions, combining devices and applications can improve the safety, effectiveness and efficiency of your workers.

FAST WIRELESS PUSH-TO-TALK
A wireless Push-to-talk (PTT) device can be used when protective clothing makes it difficult to reach the radio quickly or the user wishes to remain covert.

REMOTE CONTROL
A smartphone can be used to remotely control the radio, making or answering calls, changing talkgroups or other settings through the secure Bluetooth connection. Particularly useful when the end user needs to be discreet or even covert.

BARCODE SCANNER
A barcode scanner with a serial port profile can be linked to the radio and used to check suspect vehicles, identity documents or hazardous packages. To speed up identification and save valuable time, the user can transmit information to be checked against a database and quickly receive results directly to the radio.

HEART RATE MONITOR
A heart rate monitor can be connected to the radio and used to detect if the officer or worker is at risk of heart problems or failure. Status messages can be sent over the radio alerting control of any issues.

INDOOR LOCATION
Bluetooth beacons in high value buildings can be used to detect the presence of the radio and ensure easy location of the officer or worker during an incident.

Optional colour identification bands for groups with different tasks, coverage areas or shifts

RFID hardware option for tracking your people and inventory control of your radios
Get the most out of your MTP3000 Series radios by extending its power and reliability with Motorola certified accessories. This includes select 3rd party accessories that have been tested and certified with the MTP3000 Series radios. Our accessories endure rigorous testing to help keep you safer.

**PMMN4072**
IMPRES large remote speaker microphone with noise-canceling microphone, louder audio, audio jack and emergency button, IP54.

**PMMN4074**
IMPRES small remote speaker microphone with audio jack and emergency button, windporting, IP55.

**PMMN4075**
Small remote speaker microphone, windporting, IP57. No emergency button.

**PMMN4078**
Small remote speaker microphone with audio jack and emergency button, windporting, IP55.

**AARLN4885**
Receive-only covered earbud with coiled cord for RSM.

**WADN4190**
Receive-only flexible earpiece for RSM.

**PMLN5731**
Dual-muff over the head headset with boom microphone and in-line push-to-talk, 24dB noise reduction rating.

**PMLN5724**
2-wire surveillance kit with quick disconnect acoustic tube, black (also available in beige PMLN5726).

**PMLN5729**
IMPRES Bone Conduction Ear Microphone with in-line large push-to-talk with protective ring. Transmit in noisy environments using bone conduction.

**PMLN5727**
Mag One swivel earpiece with in-line microphone and push-to-talk.

**PMLN5728**
Mag One Earbud with in-line microphone and push-to-talk button.

**PMLN5732**
Mag One lightweight earset with boom microphone and in-line push-to-talk.

* Supports Full Duplex private call and Telephone Interconnect.
## GENERAL
- **Dimensions HxWxD mm**: 124 x 53 x 33.5 (with standard battery)
- **Weight**: 280g (radio with 1650mAH battery and antenna)
- **Battery Performance**:
  - Duty Cycle 5/5/90 > 16 Hours
  - Duty Cycle 5/35/60 > 12 Hours
- **Battery Li lon 1650mAh and 2150mAh**
- **Loud and clear Audio**: 2Wrms Audio power (4W peak) through radio and accessories

## RF SPECIFICATIONS
- **Frequency Bands**: 450-470 MHz, 800 MHz
- **Transmitter RF**:
  - Power Class 3L (1.8W)
  - & Class 4 (1W)
- **Receiver Class**:
  - A and B
  - A
- **Rx Static Sensitivity**:
  - 450-470 MHz: -116dBm (min); -118dBm (typical)
  - 800 MHz: -114dBM (min); -116dBM (typical)
- **Rx Dynamic Sensitivity**:
  - 450-470 MHz: -107dBm (min); -109dBm (typical)
  - 800 MHz: -105 dBm (min); -107dBm (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**:
  - IP65/66/67
- **Salt Water Submersion**: Rated at 1m depth for 30 minutes**
- **Shock, drop and vibration**:
  - ETSI 300-019 1-7 class 5M3; MIL-STD 810 C/D/E/F/G

## LICENSES/OPTIONS*
- **Efficiency**
- **Language & Keypad Options**
- **Bluetooth Audio & Data Services**
- **DMO Repeater**
- **Hi / Lo Tx Power**
- **RUA/RUI - Log On / ID Management**
- **Multi Slot Packet Data Service**
- **Secondary Control Channel**
- **Radio Messaging System (RMS)**
- **Call Out**
- **WAP Browser / WAP Push**
- **RFID Hardware Option**

## SAFETY
- **Location Services**: GPS
- **Man Down Sensor**

## SECURITY OPTIONS*
- **Enhanced Security - OTAP/DMO SCK**
- **Authentication (Mutual)**
- **Air Interface Encryption Class 1, 2, and 3**
- **Permanent Disable (ETSI, V2-Customer Restore)**
- **Temporary Disable (Stun)**
- **End-to-End Encryption**

## INTEGRATED DATA SERVICES*
- **Packet Data**
- **SDS Messaging in TMO & DMO**
- **ETSI & Enhanced AT Commands (including Voice Control)**
- **Short Data Applications**
- **TNP1 - Support simultaneous Packet Data and Short Data Services over PEI**
- **iTM Fleet Management (Remote Programming)**

## MTP3000 SERIES SPECIFICATIONS

<table>
<thead>
<tr>
<th>Keypad Style</th>
<th>MTP3100</th>
<th>MTP3250</th>
<th>MTP3500</th>
<th>MTP3550</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP65/66/67</td>
<td>Simple</td>
<td>Full</td>
<td>Simple</td>
<td>Full</td>
</tr>
<tr>
<td>Location Services</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bluetooth</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Man Down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vibrate Alert</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>End-to-End Encryption</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note**: **IP65/66/67**
- **Location Services**: GPS
- **Man Down Sensor**

**Security Options**
- **Enhanced Security - OTAP/DMO SCK**
- **Authentication (Mutual)**
- **Air Interface Encryption Class 1, 2, and 3**
- **Permanent Disable (ETSI, V2-Customer Restore)**
- **Temporary Disable (Stun)**
- **End-to-End Encryption**

**Integrated Data Services**
- **Packet Data**
- **SDS Messaging in TMO & DMO**
- **ETSI & Enhanced AT Commands (including Voice Control)**
- **Short Data Applications**
- **TNP1 - Support simultaneous Packet Data and Short Data Services over PEI**
- **iTM Fleet Management (Remote Programming)**
**LOCATION SERVICES**

- **Simultaneous Satellites**: 12
- **Antenna**: Integrated external antenna
- **Tracking Sensitivity**: -160 dBm (typical) -150 dBm (guaranteed)
- **Accuracy**: < 5 metres (50% probable) @ -130 dBm
- **Protocols**: ETSI LIP & Motorola LRRP

**USER INTERFACE**

- **User Controls**: Easy to use separate volume and talkgroup knobs
- **Keypad Lock**
- **User Configurable**: One touch Buttons & Keys, extensive list of functions
- **Covert Mode**
- **Customisable, User Friendly Menus**
  - Menu Shortcuts - user customisable
- **Display**
  - Colour Transflective Display, 132x90 pixel screen with 262,144 vivid colours - viewable in bright sunlight
  - Flip screen, large/x-large text & icon options
  - Screen Saver gif image & text (any user’s selection)
  - Configurable Smart Backlight to optimise power use
- **Universal Time Display**
- **Multiple Display languages, user selectable**

**Talkgroup & Call Management - User friendly, flexible, efficient, fast**

- **Talkgroups**
  - TMO Folders 256, TMO Unique 2048, TMO Instances 4000
  - DMO Folders 128, DMO Groups 1024
  - Favourite Folders - Up to 3
- **Country/Network Code List** - up to 100
- **Scan lists**: 40 lists of up to 20 groups
- **Dialed Direct, Scroll, Speed, One touch button/key**
- **AlphaNumeric Search, Call History Redial**

**Contact Management - Familiar Cellular Style Interface for Ease of Use**

- Up to 1000 contacts with 6 numbers per contact, (max 2000 unique numbers)
- **Multiple Dialling Methods** to support multiple use cases
- **Fast/Flexible Call Set Up / Answer**
- **Set up a Private Call Response to a Group Call via One Touch Button**
- **Multiple Ring Tones**

**Text & Status Messaging - Familiar Cellular Style Interface for Ease of Use**

- **Text message list** : 20 message In / Out box
- **Intelligent Keypad Text Input** (Model specific)
- **Status list**: up to 400 pre-defined messages

**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
- **PTT Double Push**
- **Adaptive Audio Control**

**Emergency Call Management**

- **Tactical Emergency Group Call to ATTTACHED talkgroup**
- **Non-Tactical Emergency Group Call to DEDICATED talkgroup**
- **Individual Emergency Call to PREDEFINED party (half/full duplex)**
- **HOT MIC Emergency** - hands free in Moments that Matter
- **Emergency Status Msg sent to dispatch console**
- **Smart TMO / DMO selection for Emergency Call set up - ensure call gets through**
- **Preemptive Priority Calls**

**OTHERS**

- Robust and “quick connect” side connector with high-performance matching accessories
- Robust bottom connector
- **SLIM connector Accessories interface**
- Team ID antenna rings : efficient operations

*Some features/options only supported on specific radio models, or may only be available in specific regions. Some features require purchase of software license to enable. Please check with your Motorola representative for details on availability of specific models and options.

**Dust cover must be fitted to side connector and bottom connector, with antenna and battery fitted. To prevent salt crystal build up rinse in fresh water after exposure.
For more information on the MTP3000 Series TETRA radios, please visit www.motorolasolutions.com.au