MTP3000 SERIES TETRA RADIOS
SAFER. TOUGHER. EASIER TO USE.
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 that are essential for safe and effective operations, as well as loud and clear audio and a rugged design. The MTP3500 features a simple keypad, while the MTP3550 has a full keypad.

Both the MTP3500 and MTP3550 are fully featured radios for public safety and mission critical users, with a man down sensor, vibrate alert and End-to-End Encryption (E2EE).

And for those requiring a feature rich radio they both have secure Bluetooth™ and Global Navigation Satellite System (GNSS) capability, including GPS and BeiDou or Glonass.

They also have IP65, IP66 and IP67 for dust and water ingress protection, wideband support for 350-470 MHz and 800 MHz, as well as a RFID hardware option.

**MTP3000 SERIES**

**KEY FEATURES**

- IP65, IP66 & IP67
- WIDEBAND 350-470 MHZ & 800 MHZ
- GPS & BEIDOU OR GLONASS
- END-TO-END ENCRYPTION
- MAN DOWN
- VIBRATE ALERT

**KEY BENEFITS**

**SAFER**

**STAY IN TOUCH**
Be safer and more effective with greater coverage and in-building performance with high sensitivity and power

**STAY SECURE**
Be secure with Air Interface Encryption or End-to-End Encryption to prevent unauthorised access

**HEAR AND BE HEARD**
Outstanding audio means you can be safe and effective in the most noisy and difficult environments

**ENHANCE YOUR SAFETY**
Know that your officers or workers are safe with man down
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 fire officers in front-line operations, but also lone security personnel or industrial 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 officers or 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.

TOUGHER

GO WHERE YOU GO
Built to survive hot, cold, dusty and wet conditions with IP65, IP66 and IP67

BUILT FOR A TOUGH WORLD
Rugged and robust side and bottom connectors for hard use and dirty environments

CONNECT AND COLLABORATE
Connect to collaborative devices and enable powerful applications with secure Bluetooth

EASIER

CUSTOMISE FOR THE END USER
Tough and effective range of audio and energy accessories suitable for the same rough use as the radio

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

STAY COVERT OR BE DISCREET
Vibrate alert for incoming calls or messages when silence is important

TRACK YOUR PEOPLE AND ASSETS
RFID hardware option for tracking your people and inventory control of your radios
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 officers and 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 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
Get the most out of your MTP3000 Series radios by extending its power and reliability with Motorola Solutions 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.

**Police**

Bluetooth 2.1 audio is embedded in the radio enabling fast and secure pairing with a variety of Bluetooth accessories. Easy to attach and pair, Motorola Solutions Bluetooth accessories enhance performance and security wherever you work. Officers can talk discreetly undercover, move without wires and use their radio like never before.

**Security/Surveillance**

When you’re working under surveillance, receiving discreet communication is a must. With the new clear eartube, an earpiece that attaches to our wireless pod, security personnel can communicate privately. The clear eartube ensures a perfect fit and comfort for extended wear.

**Fire & Rescue**

The Savox HC-1 is a compact helmet-com unit for professionals working in hazardous conditions. It easily mounts into most helmet types and provides clear and hands-free communication making it ideal for Fire and Rescue workers.

Complete the solution with the Savox C-C400 com-control unit that enables the use of your two-way radio in hazardous conditions. Designed to be especially robust for the most extreme environments, the extra-large push-to-talk button ensures transmission even when used underneath gear and protective clothing.

**Manufacturing**

Motorola Solutions Remote Speaker Microphones (RSM) ensure clear, loud audio and quality that stands up to the toughest conditions. The Windporting mechanics reduce the adverse effects of wind and rain so your messages are always heard clearly. Submersible models mean that even in extremely wet conditions, you will have continued, reliable communications.

In a loud manufacturing plant, keeping communications running smoothly is critical for productivity and safety. The Motorola Solutions Heavy Duty Headset with 24dB noise reduction rating has been optimised and certified to meet the radio’s performance. This headset is designed to protect your hearing and improve communication in loud environments.

*Wireless Pod NNTN8191 must be ordered separately*
### GENERAL

<table>
<thead>
<tr>
<th>Dimensions H x W x D mm</th>
<th>124 x 53 x 33.5 (with standard battery)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>280g (radio with standard battery and antenna)</td>
</tr>
<tr>
<td>Standard Battery</td>
<td>Li lon 1950 mAh</td>
</tr>
<tr>
<td>High Capacity Battery</td>
<td>Li lon 2200 mAh</td>
</tr>
<tr>
<td>IMPRES 2 Battery</td>
<td>Li lon 3400 mAh</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Battery Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950 mAh Battery</td>
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<tr>
<td>2200 mAh Battery</td>
</tr>
<tr>
<td>3400 mAh Battery</td>
</tr>
</tbody>
</table>

Loud and clear audio 2W RMS Audio power (4W peak) through radio and accessories

### RF SPECIFICATIONS

<table>
<thead>
<tr>
<th>Frequency Bands</th>
<th>350-470 MHz, 800 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmitter RF</td>
<td>Power Class 3L (1.8W) &amp; Class 4 (1W)</td>
</tr>
<tr>
<td>Receiver Class</td>
<td>A and B</td>
</tr>
<tr>
<td>Rx Static Sensitivity</td>
<td>350-470 MHz: -116 dBm (min); -118 dBm (typical) 800 MHz: -114 dBm (min); -116 dBm (typical)</td>
</tr>
<tr>
<td>Rx Dynamic Sensitivity</td>
<td>350-470 MHz: -107 dBm (min); -109 dBm (typical) 800 MHz: -106 dBm (min); -107 dBm (typical)</td>
</tr>
</tbody>
</table>

### 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    | Submission, rated at 1m depth for 30 minutes² |
| Shock, Drop and Vibration | ETSI 300-019 1-7 class 5M3; MIL-STD 810 C, D, E, F, G |

### LICENSES/OPTIONS³

<table>
<thead>
<tr>
<th>Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language &amp; Keypad Options</td>
</tr>
<tr>
<td>Bluetooth 2.1 + EDR, Bluetooth 4.1 and Bluetooth Smart</td>
</tr>
<tr>
<td>DMO Repeater</td>
</tr>
<tr>
<td>Hi / Lo Tx Power</td>
</tr>
<tr>
<td>RUA / RUI - Log On / ID Management</td>
</tr>
<tr>
<td>Multi Slot Packet Data Service</td>
</tr>
<tr>
<td>Secondary Control Channel</td>
</tr>
<tr>
<td>Radio Messaging System (RMS)</td>
</tr>
<tr>
<td>Call Out</td>
</tr>
<tr>
<td>WAP Browser / WAP Push</td>
</tr>
<tr>
<td>RFID Hardware Option</td>
</tr>
<tr>
<td>Safety</td>
</tr>
<tr>
<td>Location Services: GPS, Beidou / Glonass</td>
</tr>
<tr>
<td>Man Down Sensor</td>
</tr>
</tbody>
</table>

### SECURITY OPTIONS

| Enhanced Security - OTAR / 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
- Menu Editor; simplify & tailor to user needs

Display
- Colour Transflective Display, 132 x 90 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
- Talkgroups - 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
- Dialling 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 ATTACHED 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

1 Measured under typical conditions.
2 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.
3 Some features require purchase of software license to enable. Please check with your Motorola Solutions representative for details on availability of specific models and options.

A full range of matching and high performance accessories are available on the MTP3000 Series Accessory Catalogue by visiting www.motorolasolutions.com/MTP3000
For more information on the MTP3000 Series TETRA radios, please visit www.motorolasolutions.com/MTP3000