MTP3000 SERIES TETRA RADIOS
SAFE. TOUGH. EASY TO USE.
MTP3000 Series radios have a rugged design, loud and clear audio and are packed with features that are essential for safe and effective operations. 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 (fall alert) sensor, high transmission power option, vibrate alert, 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 radios are optimised for excellent audio performance in all types of noisy and demanding situations. Audio through both the speaker and accessories is clear even at full volume, and the user can be heard above loud background noise.

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

The man down (fall alert) sensor detects whether a radio has been static for a pre-set time or has tilted beyond a pre-set angle. Man down is of particular value for the protection of fire officers in front-line operations, but also for lone security personnel or industrial workers operating in hazardous environments.

MTP3000 Series radios are fitted with two rugged connectors that provide corrosion resistance, conductivity and low insertion resistance. The side connector has excellent pull strength. The bottom connector is protected inside the radio. It has a self-cleaning mechanism to resist dust and dirt, but if required – it is also easy to clean.

With IP65, IP66 and IP67 the MTP3000 series radios can withstand immersion in a metre of water for 30 minutes, or a high pressure water jet from a fire hose. A range of tough and effective audio and energy accessories are also available.

The two knob interface will suit users migrating from an analogue radio. Users can navigate quickly through the simple interface on the wide transflective screen that 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 matters.

Easily identify different radios for different users, groups, coverage areas or tasks with optional colour identification bands around the antenna.
MTP3550

End-to-End Encryption

Top Microphone

Intuitive Easy Simple Use Interface with Easy Text

Tactile Keypad

Loud and Clear Audio

Bottom Microphone

Vibrate Alert for Incoming Calls

Full Keypad

Programmable Buttons

High Performance Global Positioning Antenna

Standard RFID

Hardware Option for Security or Inventory Control

Slim Side Connector for Audio Accessories

Easy to Use Separate Volume and Talkgroup Knobs

Emergency Alert Button

Durable Bottom Connector

IP65/66/67 Dust and Water Ingress Protection

Data Sheet | MTP3000 Series Tetra Radios
### GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Dimensions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>124mm</td>
</tr>
<tr>
<td>Width</td>
<td>53mm</td>
</tr>
<tr>
<td>Depth: (with 1950mAh battery)</td>
<td>33.5mm</td>
</tr>
<tr>
<td></td>
<td>38.7mm (with 2200mAh &amp; IMPRES2 3400mAh battery)</td>
</tr>
<tr>
<td>Weight</td>
<td>280g (with 1950mAh battery)</td>
</tr>
<tr>
<td></td>
<td>295g (with 2200mAh battery)</td>
</tr>
<tr>
<td>Battery Options</td>
<td>1950mAh standard battery</td>
</tr>
<tr>
<td></td>
<td>2200mAh standard battery</td>
</tr>
<tr>
<td></td>
<td>3400mAh IMPRES2 battery</td>
</tr>
</tbody>
</table>

### AUDIO

| Audio Output Power at Max Volume | 2W       |

### TETRA SERVICES

#### RF

<table>
<thead>
<tr>
<th>Frequency Bands</th>
<th>350-470 MHz, 800 MHz</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Transmitter RF Power</th>
<th>Class 3 (2.8W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>class A (1.8W)</td>
<td>Class 4 (1.8W)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Adaptive Power Control</th>
<th>Per EN 300 392-2</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Receiver Class</th>
<th>A and B</th>
</tr>
</thead>
</table>

| Receiver Static Sensitivity | 350-470 MHz: -116dBm (min); -118dBm (typical) |
|                            | 800 MHz: -114dBm (min); -116dBm (typical) |

| Receiver Dynamic Sensitivity | 350-470 MHz: -107dBm (min); -109dBm (typical) |
|                            | 800 MHz: -105dBm (min); -107dBm (typical) |

### DATA

<table>
<thead>
<tr>
<th>Short Data</th>
<th>STATUS messaging in TMO and DMO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SDS messaging in TMO and DMO</td>
</tr>
<tr>
<td></td>
<td>Supports concatenated SDS (1000 characters)</td>
</tr>
</tbody>
</table>

| Packet Data | Supports TNP1 - simultaneous operation of Packet Data and Short Data Services over a common Peripheral Equipment Interface (PEI) |
|            | AT Commands: Full set of ETSI and enhanced AT commands |

### SECURITY

<table>
<thead>
<tr>
<th>Authentication</th>
<th>Infrastructure initiated and made mutual by radio terminal</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Air Interface Encryption - Algorithms</th>
<th>TEA1, TEA2, TEA3</th>
</tr>
</thead>
</table>

| End-to-End Encryption | Enhanced End-to-End Encryption with OTAK supported through AES128 or AES256 |

<table>
<thead>
<tr>
<th>Other Security Features</th>
<th>Temporary disable (star)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Permanent disable (ETSI standard or V2-Customer Restore)</td>
</tr>
</tbody>
</table>

### DATA SHEET

1. Only supported on specific models. Please check with your local Motorola Solutions representative for full details.
**CONNECTIVITY**

**BLUETOOTH**

- Bluetooth Versions Supported: Bluetooth 2.1 + EDR, Bluetooth 4.0, Bluetooth Smart (BLE)
- Bluetooth Security: Bluetooth 2.1 introduces Mandatory Encryption with Secure Simple Pairing (SSP), Easier Pairing and Preventing Sniffing/Attacking
- Bluetooth Audio Profiles: Headset Profile (HSP), Fast PTT with Motorola Solutions Accessories
- Bluetooth Data Profiles: Serial Port Profile, Dial Up Networking Profile, Discovery Mode, Generic Access Profile, Generic Attributes Profile (GATT), Heart Rate Profile, Battery Service Profile, Devices Info Profile

**RFID**

- Tag Type: 866-868 MHz RFID Knob

**LOCATION SERVICES**

**SATELLITE / OUTDOOR NAVIGATION SERVICE**

- Constellations Supported: GPS, BeiDou/Glonass
- Antenna: Integrated Internal Antenna
- Simultaneous Satellites: 12
- GNSS Tracking Sensitivity, dBm: GPS: -160 dBm (guaranteed); -161 dBm (typical)
- Accuracy, 3D: <5 (95% probable at -130dBm)
- Protocols: I/Cat24, II/Cat5
- TFF Cold Start: <80 sec (typical)
- TFF Hot Start: <10 sec (typical)

**INDOOR NAVIGATION SERVICE**

- BTLE Indoor Location: iBeacon® / Bluetooth Low Energy Beacon
- Protocols: ETSI LIP (Short and Long), Motorola LRRP

**SOFTWARE FEATURES**

- For a full list of available licensed features please visit: motorolasolutions.com/tetradevicessoftware

**RECOMMENDED SERVICES**

- Services for TETRA radios: motorolasolutions.com/deviceservices

**ENVIRONMENTAL SPECIFICATIONS**

- Operating Temperature: -30°C to +60°C
- Storage Temperature: -40°C to +85°C
- Humidity (Condensation & High Temperature): ETSI 300 019-1-7 class 7.3E
- Shock (bumps & shock, drop (free fall & drop & topple) and vibration (random & sine)): ETSI 300-019-1-7 class 5M3
- Dust and Water Ingress Protection: IP65/68/67

**US MILITARY STANDARD MATRIX**

- Where a test method has multiple procedures, the applicable procedures are listed. A tick “✓” indicates that the there is only one procedure.

**USER INTERFACE**

- Display: 1.7" Colour Transreflective Display, 132x90 pixel screen with 256K vivid colours
- Backlight, flip screen, large icons and scalable text font options
- Screen saver gif image & text (user defined)
- Universal time display
- Multiple display languages, user selectable
- Controls: Keypad and rotary lock
- Keypad: User configurable one touch buttons and keys, extensive list of functions
- Menu: Customisable to user needs
- Menu Shortcuts
- Talkgroup Management: User friendly, flexible, fast and efficient interface
- Talkgroups: TMO folders: up to 256, TMO talkgroups: up to 10000
- DMO folders: up to 128, DMO talkgroups: up to 2000
- Favourite Talkgroup Folders: 3
- Scan lists: 40 lists of up to 20 groups
- Contacts Management: Rapid search
- Contacts: Up to 1000 contacts with 6 numbers per contact, (maximum 2000 unique numbers)
- Dialling Methods: Dialling Direct, Scroll, Speed, One touch button/key
- Message Manager: Distinct folders for each message type
- Text Message List: Up to 200 entries (short messages)
- At least 20 entries for outbox (long messages up to 1000 characters)
- At least 10 entries for inbox (long messages up to 1000 characters)
- Status List: 400 pre-defined messages assignable to one touch buttons
- Other Features: Intelligent keypad text input

**ACCESSORIES**

- Batteries: (Li Ion 1950 mAh & 2200 mAh and IMPRES Li-ion 3400 mAh)
- Battery chargers and vehicle adapters
- Various carry options
- Audio headsets
- Remote speaker microphones
- Earpieces
- Programming and data cables

**Notes:**

- Some features mentioned are optional, and some require additional software licences.
- Feature availability may vary by country.
- Please check with your local Motorola Solutions representative for full details.

**DATA SHEET | MTP3000 SERIES TETRA RADIOS**
DEVICE SERVICES

ACHIEVE MISSION CRITICAL PERFORMANCE

RADIO PERFORMANCE IS CRITICAL FOR EFFECTIVE MISSION-CRITICAL OPERATION. YOUR USERS RELY ON THEIR RADIOS TO BE AVAILABLE AND CONNECTED.

You and your users count on the radio to operate at optimal efficiency. To help support the performance of your MTP3000 radio fleet and maximise the value of your investment, we offer a variety of service packages that transfer the risk and responsibility to Motorola Solutions to provide the right level of services* for your radio fleet needs.

The service capabilities offered include:

HARDWARE REPAIR
Troubleshooting, testing and repair of your equipment at a centralised facility

ACCIDENTAL DAMAGE COVER
When the unexpected happens, we have you covered with a quick repair turnaround

TECHNICAL SUPPORT AND SERVICE DESK
Remote technical support services to ensure that your radios are rapidly restored and functional

SOFTWARE MAINTENANCE
Access to latest certified software releases ensure reliable and secure device operations

You can rely on us to help you achieve your device performance targets and maximise the value of your radio investments with the right level of services designed specifically for your needs. Each package provides a higher level of support, transferring the risk and responsibility to Motorola Solutions.

*For the complete list of service packages, please visit motorolasolutions.com/deviceservices
MTP3000 SERIES TETRA RADIOS
YOUR LIFELINE
WHEN TIME IS CRITICAL

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