



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

**ENHANCED FAMILY INCLUDING
MTP3500 AND MTP3550**



MTP3000 SERIES ENHANCEMENTS



IP65, IP66 & IP67



450-470 MHZ
& 800 MHZ

MTP3500/3550 ADDED FEATURES



END-TO-END ENCRYPTION



MAN DOWN



VIBRATE ALERT



MTP3000 SERIES

DESIGNED TO WORK IN THE TOUGHEST,
MOST DEMANDING ENVIRONMENTS, DAY IN, DAY OUT.

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).

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 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 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.

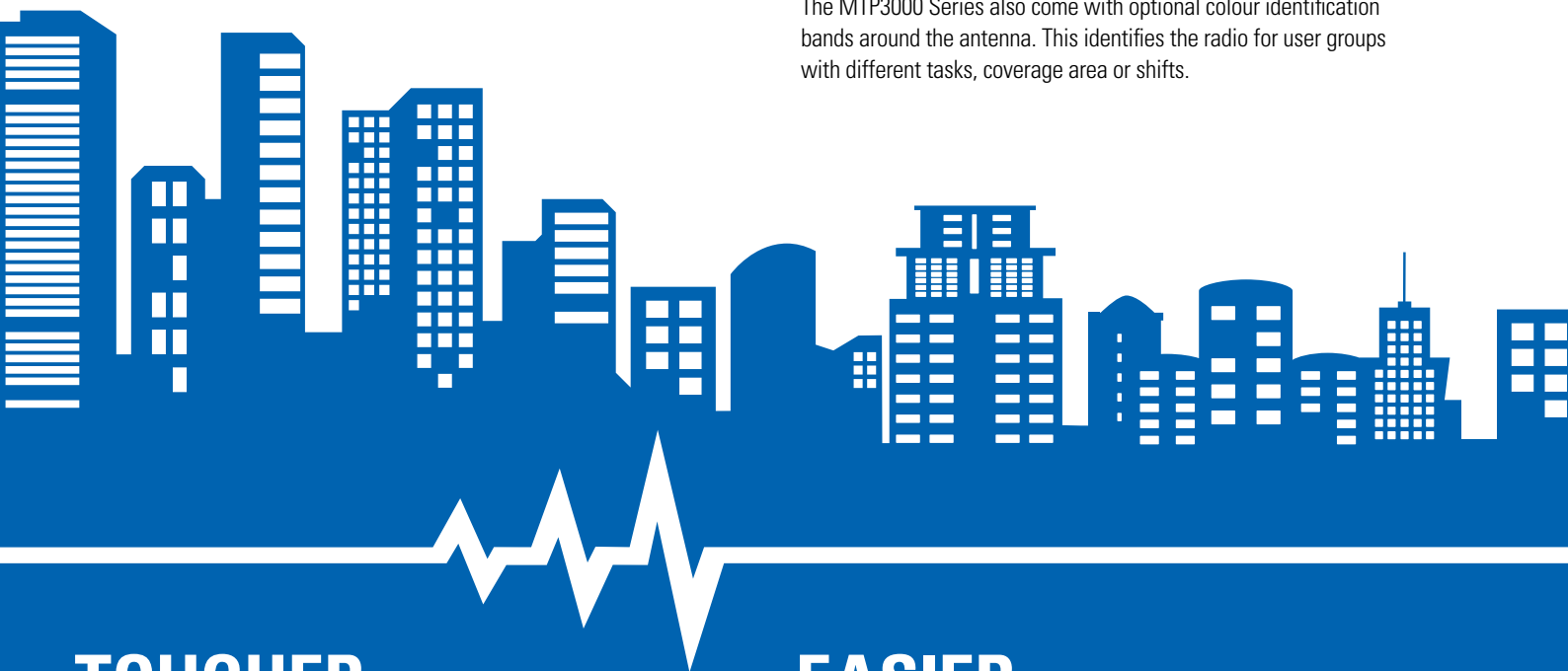
EASIER

INTUITIVE HARDWARE AND SOFTWARE FEATURES

The two knob interface will suit users migrating from an analogue radio. The wide transfective 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.



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



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

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.



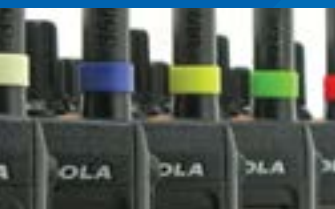
HEART RATE MONITOR

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 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



Standard Control Knob RFID Control Knob

◀ RFID hardware option for tracking your people and inventory control of your radios

MTP3000 SERIES ACCESSORIES

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

MTP3000 SERIES SPECIFICATIONS

	MTP3100	MTP3250	MTP3500	MTP3550
Keypad Style	Simple	Full	Simple	Full
IP65/66/67	•	•	•	•
Location Services		•	•	•
Bluetooth		•	•	•
Man Down			•	•
Vibrate Alert			•	•
End-to-End Encryption			•	•

GENERAL

Dimensions HxWxD mm	124 x 53 x 33.5 (with standard battery)
Weight	280g (radio with 1650mAh battery and antenna)
Battery Performance (Class 4 and 1650mAh battery)	Duty Cycle 5/5/90 > 16 Hours Duty Cycle 5/35/60 > 12 Hours
Battery	Li Ion 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
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 - 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, 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
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

MTP3000 SERIES SAFER TOUGHER EASIER



* Some features / options only supported on specific radio models, or may only be available in specific regions. Some features require purchase of software licence 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.



MTP3000 SERIES TETRA RADIOS YOUR LIFELINE WHEN TIME IS CRITICAL

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

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BTB/MA738_06/15

