MTP3000 SERIES
TETRA RADIOS

SAFER.
TOUGHER.
EASIER TO USE.

MTP3000 SERIES
ENHANCEMENTS

- **IP65, IP66 & IP67**
- **WIDEBAND 350-470 MHZ & 800 MHZ**
- **GPS & BEIDOU OR GLONASS**

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, wideband support for 350-470 MHz and 800 MHz as well as an RFID hardware option.

The MTP3100 and MTP3150 are the entry level radios packing in all the TETRA essentials and providing an easy transition from analogue to digital radio.

The MTP3200 and MTP3250 add features such as Global Navigation Satellite System (GNSS) capability including BeiDou or Glonass and 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 public safety and mission critical users with the addition of 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 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.
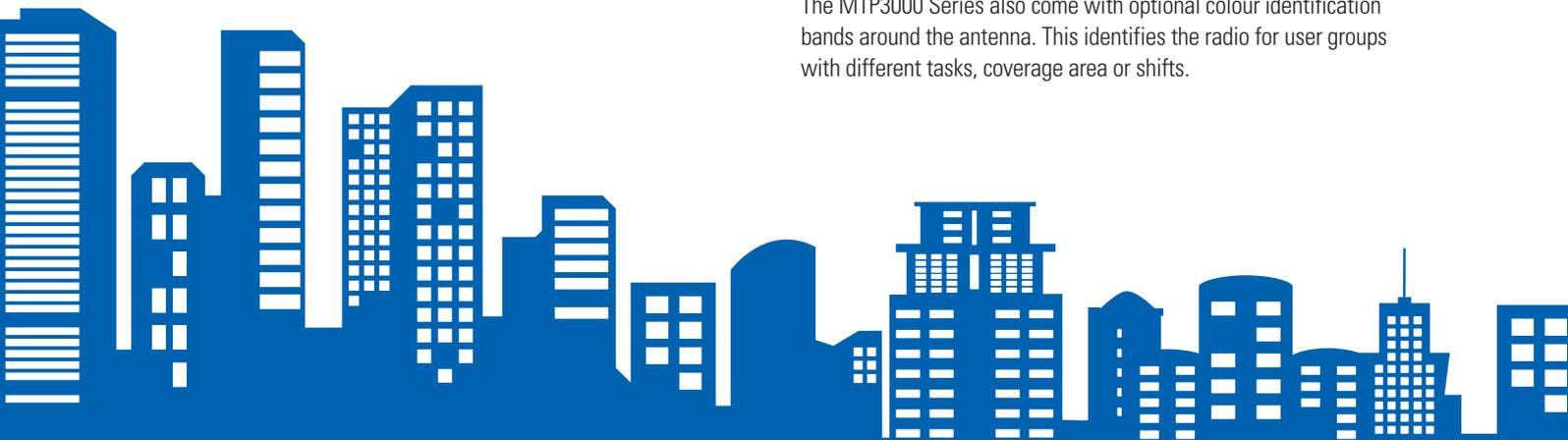
EASIER

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

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

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 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

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.
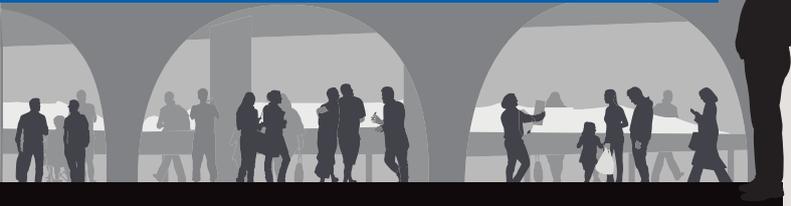
POLICE

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 Bluetooth accessories enhance performance and security wherever you work. Officers can talk discreetly undercover, move without wires and use their radio like never before.

NNTN8294 & NNTN8295*

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.

PMLN7052*

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.

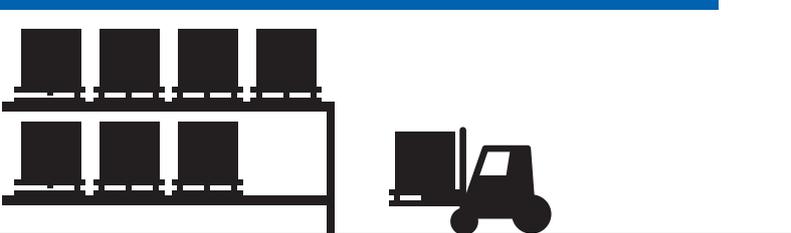Savox HC-1 GMMN4585A

Savox C-C400 GMMN4579A

TRANSPORTATION

Motorola 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.

PMMN4075

MANUFACTURING

In a loud manufacturing plant, keeping communications running smoothly is critical for productivity and safety. The Motorola 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.

PMLN5731

*Wireless Pod NNTN8191 must be ordered separately

MTP3000 SERIES SPECIFICATIONS

	MTP3100	MTP3150	MTP3200	MTP3250	MTP3500	MTP3550
Keypad Style	Simple	Full	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	350-470 MHz, 800 MHz
Transmitter RF	Power Class 3L (1.8W) & Class 4 (1W)
Receiver Class	A and B
Rx Static Sensitivity	350-470 MHz: -116dBm (min); -118dBm (typical) 800 MHz: -114dBM (min); -116dBM (typical)
Rx Dynamic Sensitivity	350-470 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 2.1 + EDR, Bluetooth 4.0 and Bluetooth Smart

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, Beidou / Glonass

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

* 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
SAFER TOUGHER EASIER

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

MTP3000 SERIES TETRA RADIOS
YOUR LIFELINE WHEN TIME IS CRITICAL

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

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