MTM5000 SERIES
TETRA MOBILE RADIOS
SAFE, RELIABLE AND EFFECTIVE

MTM5000 SERIES TETRA TWO-WAY MOBILE RADIO

The MTM5000 Series TETRA mobile radios are sleek and durable and packed with features that have become essential for safe and effective operations. These include End-to-End Encryption and features that enable ease-of-operation in the most demanding situations such as high audio quality, high receiver sensitivity, an intuitive keypad, and a high-definition colour display.

The MTM5000 series mobile radios support a wide range of applications and installation options including: fixed control room, vehicle, motorcycle and custom installation.

The **MTM5400** includes Class 2 and Class 3 power modes and Gateway Repeater functionality required by a number of end users - providing extended coverage.

The **MTM5500** is a highly flexible and capable system radio which, in addition to Class 2 and Class 3 power modes and Gateway Repeater functionality, also permits the installation of multiple control heads up to 40m from the transceiver. This means that a total installation over 80m on a train or boat would be achievable.

Multiple transceivers can be supported by a single control head - either the Remote Ethernet Control Head (ReCH) or the Telephone Style Control Head (TSCH). The ability to control multiple radios is essential for multiple agency, joint operations or bilateral cross border operations.

MTM5000 SERIES BENEFITS

EXTENDED OPERATIONAL RANGE

- Up to 10W transmit power, with high receiver sensitivity delivers comprehensive network coverage
- Integrated DMO Gateway, DMO Repeater capabilities, for secure and resilient communications

SUPERIOR AUDIO PERFORMANCE

- The audio architecture delivers the loudest and clearest audio performance of any Motorola Solutions TETRA mobile available on the market[1]

LOW USER MIGRATION COSTS

- Familiar cellular style user interface and VGA colour display for enhanced usability and reduced staff training costs
- Same intuitive user interface as latest MTP3000 Series and MTP6000 Series TETRA portable radios
- Re-use of common accessories using GCAI connector

ENHANCED END-TO-END ENCRYPTION OPTIONS

- Integrated hardware for SIM based End-to End Encryption
- Universal Crypto Module option[2]

ADVANCED TERMINAL MANAGEMENT

- USB 2.0 interface for fast radio programming via Motorola Solutions integrated Terminal Management (iTM) solution

LOCATION SERVICES

- The MTM5000 Series supports Global Navigation Satellite Systems (GNSS) based location services for GPS, GLONASS and BeiDou, as well as Satellite Based Augmentation Systems (SBAS) including WASS, EGNOS, MSASA, GAGAN and QZESS

FLEXIBLE INSTALLATION OPTIONS

- Fully DIN compatible and available in Dash, Desk, Remote Head and Motorcycle mount formats
- Supports multiple control heads - an ideal solution for installations in trains, ambulances and fire vehicles where more than one control point might be required
- Supports multiple transceivers - an ideal solution for multiple agency, joint operations, or multi-task communications including bilateral such as cross-border operations
- MTM5500 ethernet style connections enable up to 40m separation to either the new ReCH or the TSCH
- The Remote Display Controls (RDC) protocols enable third party control head solutions

RUGGED DESIGN WITH EXCEPTIONAL RELIABILITY

- Includes IP67 control head option (MTM5400), for exposed and challenging environments
- Front and rear rugged GCAI connector for reliable connection of audio and data peripheral equipment
- Mobile radio and accessories are performance matched for enhanced reliability

[1] Assuming the appropriate audio accessory is used
[2] Model specific

MTM5000 SERIES SOLUTIONS

The MTM5000 Series has a wide range of installation options with multiple expansion head options and multiple control head options, as well as the ability to connect two transceivers to one control head or connect a third party control head.

MTM5400

EXPANSION HEAD OPTIONS

EXPANSION HEAD
SINGLE STD CONNECTION

EXPANSION HEAD ENHANCED
STD AND AUXILARY 25 PIN AND RS232

CONTROL HEAD OPTIONS

DASH / DESK CONTROL HEAD

REMOTE CONTROL HEAD

IP67 CONTROL HEAD

INSTALLATION OPTIONS

DASH MOUNT
CAR, TRUCK

REMOTE MOUNT
CAR, AMBULANCE, FIRE TRUCK

UP TO 10m

DESK MOUNT
CONTROL CENTRE

IP67 REMOTE MOUNT
BOAT, MOTORCYCLE

UP TO 10m

DATA ONLY

DATA TERMINAL

MTM5500

EXPANSION HEAD OPTIONS

ETHERNET EXPANSION HEAD
2X STD, ETHERNET TYPE, ETHERNET SIM READER AND RS232

CONTROL HEAD OPTIONS

REMOTE ETHERNET CONTROL HEAD (ReCH)
SUPPORTS EXTERNAL SPEAKERS AND PTT

TELEPHONE STYLE CONTROL HEAD
SUPPORTS EXTERNAL ACCESSORIES

INSTALLATION OPTIONS

MULTIPLE CONTROL HEADS AMBULANCE, FIRE TRUCK, INCIDENT CONTROL VEHICLE, METRO TRAIN

ReCH

OR

TSCH

UP TO 40m

UP TO 40m

ReCH

OR

TSCH

TOTAL 80m

DATA ONLY

ETHERNET TYPE

DATA TERMINAL

MULTIPLE TRANSCEIVERS

ReCH

OR

TSCH

OEM CONTROL HEAD

OEM CONTROL HEAD

TELEPHONE STYLE CONTROL HEAD

Combining robustness with a sleek ergonomic design, the discreet TSCH provides flexibility and ease of operation, making it well suited for in-vehicle applications.

Fully compatible with MTM5500 radios, the design attributes of the TSCH provides uncompromising performance for mission-critical operations.

INSTALLATION FLEXIBILITY

For installations in long vehicles, buses or trains, the TSCH can be conveniently located as far as 40m way from the transceiver. To further simplify the installation, the TSCH is remotely powered via a single cable, from the transceiver.

The TSCH can be used in a dual control head configuration and also in conjunction with our other control head options. In addition to the TSCH, Motorola Solutions offers a wide range of control head options including pump bay terminals for fire trucks, custom control solutions and standard control heads.

EASE OF USE

The TSCH is well suited for telephone style communications, supporting full duplex private calls as well as half duplex communications.

A vibrant, colour display makes it easy to read text and view images on the device. The screen orientation is easily adjusted to accommodate different fitting options.

To minimise training requirements, the TSCH uses the same user interface found in our proven range of portable radios. To enable a quick response in critical situations, a clearly visible emergency button and a rotary control for volume and talk group changes are easily accessed on the handset cradle.

With its sleek design, the TSCH can be comfortably used underneath a helmet and has been designed so that it completely encloses the ear - this ensures that background noise is minimized.

UNCOMPROMISING PERFORMANCE

Exceptional audio performance is achieved thanks to the digital connections between the transceiver and the TSCH. The enhanced audio processing enables louder and clearer audio from the TSCH and connected loudspeakers.

With its IP55 environmental protection rating, the TSCH is designed with the ruggedness and weather resistance needed for operation in harsh environments.

MTM5000 SERIES ACCESSORIES

You count on your mobile radio to function clearly and easily so you can concentrate on the mission and communicate safely.

Get the most out of your TETRA mobile radio with MTM5000 Series accessories from Motorola Solutions.

OUR RANGE OF ACCESSORIES INCLUDES:

- Mobile Microphones
- Mobile Handset
- Speakers
- Push-to-Talk Solutions
- Junction Box and Cables
- Mounting Solutions
- Power Solutions
- Installation Cables
- Programming and Data Cables
- Battery Power Cables
- GPS Antennas
- Mobile Antennas

To view the full range of TETRA Accessories visit **motorolasolutions.com/tetra_accessories**

For more information, please visit: **motorolasolutions.com/MTM5000**

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