MTM5000 SERIES
TETRA MOBILE RADIOS

SAFER. SMARTER. FASTER.

MOTOROLA SOLUTIONS

MTM5000 SERIES

SAFER
- Hear and be heard in difficult environments with enhanced audio
- Stay in touch with great coverage, improved Rx sensitivity and high power options

SMARTER
- Versatile installation connects end users in and around the vehicle, up to 40m from the radio with the MTM5500
- Control the radio and make voice and data calls inside or outside the vehicle with the TSCH (Telephone Style Control Head)

FASTER
- TEDS (TETRA Enhanced Data Service) ready, for faster data communications to improve efficiency and safety
- Link to data devices for flexibility and powerful applications

MTM5000 SERIES BENEFITS

EXTENDED OPERATIONAL RANGE
- Up to 10W transmit power, with class leading receiver sensitivity delivers comprehensive network coverage
- Integrated DMO Gateway, DMO Repeater capabilities, ensure secure and resilient communications where needed most

SUPERIOR AUDIO PERFORMANCE
- Enhanced audio architecture delivering the loudest and clearest audio performance of any Motorola Solutions TETRA mobile available on the market*

HIGH SPEED DATA CONNECTIVITY
- TEDS Ready hardware - with a simple software license upgrade, enables 20x faster data connectivity for accessing back-office systems and databases
- Integrated USB 2.0 PEI, enabling rapid radio programming and standardised interfacing to data terminals and accessories. For additional flexibility, USB host and slave modes are also supported

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**

LOCATION SERVICES
- The MTM5000 Series supports Global Navigation Satellite Systems (GNSS) based location services for GP, GLONASS and BeiDou, as well as Satellite Based Augmentation Systems (SBAS)

ADVANCED TERMINAL MANAGEMENT
- USB 2.0 interface for fast radio programming via Motorola Solutions Integrated Terminal Management (ITM) solution

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 Control Head or the TSCH (IP55)
- Other Equipment Manufacturer (OEM) control head solutions can be developed using the Remote Display Controls (RDC) protocols

RUGGED DESIGN WITH EXCEPTIONAL RELIABILITY
- Includes IP67 control head option, 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

* Assuming the appropriate audio accessory is used   ** Model specific

In addition to enhanced audio and receiver sensitivity, the **MTM5400** includes high power modes and Gateway Repeater functionailty features required by end users, as well as being TEDS ready.

The **MTM5500** is a highly flexible and capable system radio which permits the installation of multiple control heads up to 40m from the transceiver and 80m from each other. The TSCH also provides an alternative method to control the radio and make voice and data calls. Alternatively multiple transceivers can be supported by a single ethernet control head. The ability to control multiple radios is essential for multiple agency, joint operations or bilateral cross border operations.

TELEPHONE STYLE CONTROL HEAD

Combining class leading 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 ensure 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.

The screen orientation is easily adjusted to accommodate different fitting options. For example, a horizontal screen orientation can be applied when the device is fitted onto a windscreen.

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.

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 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 an OEM control head.

MTM5400

EXPANSION HEAD OPTIONS

EXPANSION HEAD
SINGLE STD CONNECTION

EXPANSION HEAD ENHANCED
STD AND AUXILARY 25 PIN AND RS232

CONTROL HEAD OPTIONS

STANDARD CONTROL HEAD

REMOTE CONTROL HEAD

IP67 CONTROL HEAD

INSTALLATION OPTIONS

DASH MOUNT
CAR, TRUCK

REMOTE HEAD MOUNT
CAR, AMBULANCE, FIRE TRUCK

UP TO 10m

DESK MOUNT
CONTROL CENTRE

IP67 MOUNT
BOAT, MOTORCYCLE

UP TO 10m

DATA ONLY

DATA TERMINAL

MTM5500

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

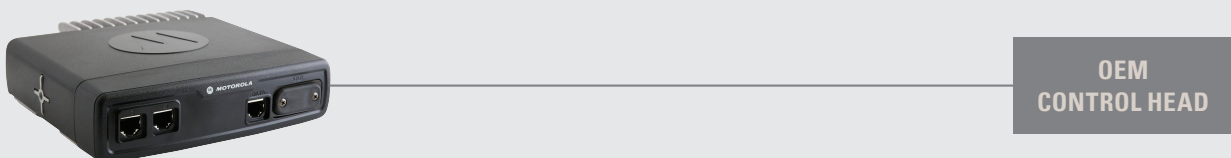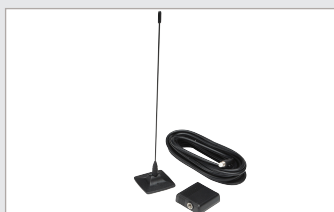**MULTIPLE CONTROL HEADS** AMBULANCE, FIRE TRUCK, INCIDENT CONTROL VEHICLE, METRO TRAIN

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**

MTM5000 ACCESSORIES

GMAE4253

**ANTENNA TETRA GLASS MOUNT
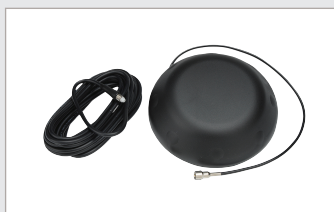380-400 MHz**

GMAE4255
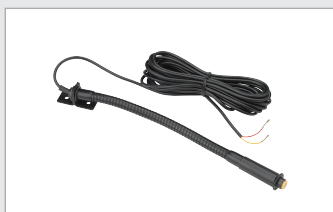
**ANTENNA TETRA PANEL MOUNT
380 - 430 MHz**

GMAE4257

**ANTENNA TETRA MAG MOUNT
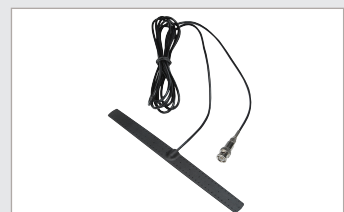410 - 430 MHz**

GMAE4260

**ANTENNA TETRA LOW PROFILE
380 -400 MHz**

GMAE4258B

**ANTENNA TETRA COVERT STRP
380-410MHZ**

GMAE4258B

**ANTENNA TETRA COVERT STRP
380-410 MHZ**

MOBILE MICROPHONES

RMN5054

**SMART VISOR MIC
Requires external PTT
such as RLN5926A**

MDHLN7016*

**IMPRES TELEPHONE
STYLE HANDSET KIT**

RMN5106

DESKTOP MICROPHONE

RMN5107

**COMPACT MOBILE
MICROPHONE**

RMN5111

**HEAVY DUTY
MICROPHONE**

PMMN4087

VISOR MICROPHONE

INSTALLATION ACCESSORIES

PMLN4912

**REMOTE MOUNT
TRUNNION KIT**

GLN7318

BASE TRAY WITHOUT SPEAKER

LOUD SPEAKER

RSN4002A

13W EXTERNAL SPEAKER

POWER SUPPLIES

PMPN4055

**POWER SUPPLY
Small Power Supply with integrated
wall bracket. Requires Cable
PMKN4165A and Line Cord.**

PMPN4076*

**WEDGE POWER SUPLY
Requires DC Cable PMKN4165A
and Line Cord.**

*Radios not included

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

MOTOROLA SOLUTIONS