

# MTM5000 SERIES BENEFITS

#### **EXTENDED OPERATIONAL RANGE**

- Up to 10W transmit power (MTM5400/5500) and with class leading receiver sensitivity delivers comprehensive network coverage
- Integrated DMO Gateway, DMO Repeater capabilities (MTM5400/5500), ensure secure and resilient communications where needed most

#### **SUPERIOR AUDIO PERFORMANCE**

 Enhanced audio architecture delivering the loudest and clearest audio performance of any Motorola 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 high resolution 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\*\*

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

#### **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 QZSS (Japan)

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



# MTM5000 SERIES SPECIFICATIONS





MODELS - COMPLIANT WITH DIN 75490 (ISO 7736)		
	MTM5400	MTM5500
Dash	Compact radio for fast vehicle installation	N.A.
Desk	Compact radio, for use in the office.  Optional range of accessories such as desk tray with integrated loudspeaker	N.A.
Multiple Remote Control Head	N.A.	Radio with multiple remote mount control head capability
	N.A.	Range of installation options enable use in cars, vans and other vehicles
Multiple Transceiver or Control Head	N.A	Range of installation options enable use in cars, vans and other vehicles
Motorcycle	Environmentally enhanced radio meeting IP67 specification. Suitable for demanding environments such as motorcycle, fire appliance and marine installations	N.A.
Expansion head "Databox"	Radio without a control head, for data applications, or customised application development	

GENERAL				
	Dimensions HxWxD (mm)	Weight Typical (g)	Dimensions HxWxD (mm)	Weight Typical (g)
Dash and Desk models (transceiver + control head)	60x188x198	1300		N.A.
Transceiver only	45x170x169	1070	45x170x169	1070
Standard control head	60x188x31	230		N.A.
Remote control head	60x188x39	300	60x188x39	300
Motorcycle control head	60x188x39	320		N.A.

<b>USER INTERFA</b>	CE & DISPLAY			
Diagonal dimension		2.8"		
Display	Type	640x480 pixels, Transmissive Display, 65,000 colours		
	Backlight	Variable backlight, User configurable		
	Font sizes	Standard & Zoom mode (90 pixels, 4.5mm high) characters		
TSCH		N.A. Available as option*		
Numeric		Integral backlit numeric keypad of 12 keys, with keypad lock option		
	International keypad versions	Roman, Arabic, Cyrillic, Korean, Chinese, Taiwanese characters**		
D 0 K	Programmable function keys	3 programmable function keys (plus 10 programmable numeric keys)		
Buttons & Keypad	Navigation	4-way navigation key, menu and soft keys		
	Emergency	Emergency button with backlight		
	Shortcuts	User configurable shortcuts to menus and common features using "One-Touch-Button" feature		
Rotary	Dual Function	Talkgroup and volume change with lock option		
1 12 12	LED	Tri-colour LED		
Indication	Tones	Configurable notification tones		
User Interface	Standard Options	Arabic, Chinese Simplified, Chinese Traditional, Croatian, Danish, Dutch, English, French, German, Greek, Hebrew, Hungarian, Italian, Korean, Lithuanian Macedonian, Mongolian, Norwegian, Portuguese, Russian, Spanish, Swedish		
Languages	User defined	User programmable, using ISO 8859-1 character		
		Tailored to user needs		
Menu		Menu Shortcuts		
		Menu Configuration		
Contacts Manageme	nt	Cellular Type		
Contact List		Up to 1000 contacts		
		Up to 6 numbers per contact, Max 2000 numbers		
Multiple Dialling Methods		User selects how to dial		
Fast/Flexible Call Response		Private Call Response to a Group Call via One Touch Button		
Multiple Ring Tones		Configurable with CPS		
Message Manager		Cellular Type		
Text message list		20		
Intelligent Keypad Te	xt Input	All Control Heads		
Status list		400		
Country/Network Code List		100		
Scan lists		40 lists of 20 groups		
Discrete Mode		All Control Heads		
Screen Saver	J. J. T.			
Universal Time Display All Control Heads		All Control Heads		
Keypad Lock		All Control Heads		
Talkgroup Folders		Dual layer folder structure (folder/subfolder)		
		256 folders		
Favourite Folders		Up to 3 (to store any favourite talkgroup)		

<sup>\*</sup> Please refer to the separate specification sheet
\*\* For availability of other language keypads please contact your local MSI representative

## **MTM5000 SERIES SPECIFICATIONS**

Operating Temperature (°C)		20 to 180	
Operating Temperature (°C) Storage Temperature (°C)		-30 to +60 -40 to +85	
Not in use - Storage	ETSI 300 019-1-1 CLASS 1.3	Non-Weather Protected Storage Locations	
Not in use - Transportation	ETSI 300 019-1-2 CLASS 2.3	Public Transportation	
Stationary use - Weather Protected Locations	ETSI 300 019-1-3 CLASS 3.2	Partly Temperature Controlled Locations	
Mobile use - Ground Vehicle	FT01 000 040 4 5 01 400 5 0		
nstallation	ETSI 300 019-1-5 CLASS 5.2	Climatic Tests	
Mobile use - Ground Vehicle	ETSI 300 019-1-5 CLASS 5M3	Mechanical Tests	
Rail Certification	EN50155:2007 and IEC60571 ED.3.0	Environmental	
Environmental  MIL STD			
Oust and Water Ingress	810 C/D/E/F/G Specifications IP54 (dust cat. 2)	All 11 categories met (or exceeded)  Dash/Desk/Remote models	
rotection	IP67	Motorcycle model (only control head is IP67; transceiver is IP54)  MTM5500 TSCH IP55	
LECTRICAL SPECIFIC	CATIONS	NATALTOO NATALTOO	
oltage Range		MTM5400 MTM5500  10.8 to 15.6 V DC	
itage natige	Idle / Rx / Tx @ 10W	0.5 / 1.0 / 1.2 ( TX 3.4A Peak)	
	Idle / Rx / Tx @ 3W	0.5 / 1.0 / 1.2 ( 17.3.4A TORK)	
urrent Consumption (A, typ.)	Tx - Multi Slot PD (4 slots) @ 5.6W	2.7	
	Tx - TEDS @ 3W	2.3	
	Using USB host	Adds 0.5A	
F SPECIFICATIONS			
equency Bands (MHz)		350 - 390, 380 - 430, 410 - 470, 806 - 870	
. ,	TETRA Release 1	10W, (Class 2) and 3W, (Class 3)	
ansmitter RF Power	TETRA Release 2 (TEDS)	3W, (class 3)	
F Power Control	6 Power Step Levels (steps of 5 dBm)	Starting at 15 dBm; finishing at 40 dBm	
eceiver Class		A&B	
eceiver Static Sensitivity (dBn		-114 minimum, -116 typical (ETSI 300-392-2)	
eceiver Dynamic Sensitivity (c	IBM)	-105 minimum, -107 typical (ETSI 300-392-2)	
<b>INSS SPECIFICATION</b>	NS .		
imultaneous Satellite System	S	GPS plus one other GNSS, eg GLONASS, BeiDou	
Node of Operation		Concurrent tracking, SBAS capable, 72 channel	
GNSS Antenna		Supports active antenna (5V, 25mA supply)	
racking Sensitivity		2 meter (50% probable) @-130dBm	
racking Sensitivity accuracy		2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm	
racking Sensitivity		2 meter (50% probable) @-130dBm	
racking Sensitivity occuracy ocation Protocols		2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP)	
racking Sensitivity accuracy ocation Protocols		2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP	
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racking Sensitivity ccuracy ocation Protocols  /OICE SERVICES alkgroups hone book entries	Group call	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping	
racking Sensitivity ccuracy ocation Protocols  /OICE SERVICES alkgroups hone book entries	Private call	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups	
racking Sensitivity ccuracy ocation Protocols  /OICE SERVICES alkgroups hone book entries	Private call Telephony	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping	
racking Sensitivity ccuracy ocation Protocols  OICE SERVICES alkgroups hone book entries can lists	Private call Telephony (PABX, PSTN, MS-ISDN)	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex Full Duplex	
acking Sensitivity ccuracy ccation Protocols COICE SERVICES alkgroups none book entries can lists	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex Full Duplex Up to 10,000 groups	
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acking Sensitivity ccuracy pocation Protocols  FOICE SERVICES alkgroups none book entries can lists  unked Mode (TMO) Services	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning Tactical	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex Full Duplex Up to 10,000 groups Attachment signalling, supports SWMI initiated attachment/detachment Group call Private call Emergency Group Call to ATTACHED talkgroup	
racking Sensitivity ocation Protocols  OICE SERVICES alkgroups hone book entries can lists  runked Mode (TMO) Services	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning  Tactical Non-Tactical	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex Full Duplex Up to 10,000 groups Attachment signalling, supports SWMI initiated attachment/detachment Group call Private call Emergency Group Call to ATTACHED talkgroup Emergency Group Call to DEDICATED talkgroup	
acking Sensitivity ccuracy pocation Protocols  FOICE SERVICES alkgroups none book entries can lists  unked Mode (TMO) Services	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning  Tactical Non-Tactical Individual	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex Full Duplex  Up to 10,000 groups Attachment signalling, supports SWMI initiated attachment/detachment Group call Private call Emergency Group Call to ATTACHED talkgroup Emergency Group Call to DEDICATED talkgroup Emergency Call to PREDEFINED party (half/full duplex)	
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acking Sensitivity ccuracy pocation Protocols  FOICE SERVICES alkgroups none book entries can lists  unked Mode (TMO) Services  irect Mode (DMO) Services	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning  Tactical Non-Tactical Individual Smart emergency Hot Mic	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex Full Duplex Full Duplex  Up to 10,000 groups Attachment signalling, supports SWMI initiated attachment/detachment Group call Private call Emergency Group Call to ATTACHED talkgroup Emergency Call to PREDEFINED party (half/full duplex) TMO/DMO/DMO to TMO automatic switching options Configurable timers for automatic open mic (talk without PTT)	
acking Sensitivity couracy cation Protocols  OICE SERVICES Ilkgroups tone book entries tan lists  unked Mode (TMO) Services  rect Mode (DMO) Services	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning  Tactical Non-Tactical Individual Smart emergency	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex Full Duplex  Up to 10,000 groups Attachment signalling, supports SWMI initiated attachment/detachment Group call Private call Emergency Group Call to ATTACHED talkgroup Emergency Call to PREDEFINED party (half/full duplex) TMO/DMO/DMO to TMO automatic switching options	
acking Sensitivity ccuracy pocation Protocols  FOICE SERVICES alkgroups none book entries can lists  unked Mode (TMO) Services  irect Mode (DMO) Services	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning  Tactical Non-Tactical Individual Smart emergency Hot Mic Location	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex Full Duplex Full Duplex  Up to 10,000 groups Attachment signalling, supports SWMI initiated attachment/detachment Group call Private call Emergency Group Call to ATTACHED talkgroup Emergency Group Call to DEDICATED talkgroup Emergency Call to PREDETINED party (half/full duplex) TMO/DMO/DMO to TMO automatic switching options Configurable timers for automatic open mic (talk without PTT) Location (GPS) sent with emergency	
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acking Sensitivity ccuracy ocation Protocols  OICE SERVICES alkgroups none book entries can lists  unked Mode (TMO) Services irect Mode (DMO) Services	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning  Tactical Non-Tactical Individual Smart emergency Hot Mic Location Target Address Alarm (status message)	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex Full Duplex  Up to 10,000 groups Attachment signalling, supports SWMI initiated attachment/detachment Group call Private call Emergency Group Call to ATTACHED talkgroup Emergency Group Call to DEDICATED talkgroup Emergency Call to PREDEFINED party (half/full duplex) TMO/DMO/DMO to TMO automatic switching options Configurable timers for automatic open mic (talk without PTT) Location (GPS) sent with emergency Sent to individual or group address (selected or dedicated) Emergency Status (or other pre-defined status)	
acking Sensitivity ccuracy ccation Protocols  OICE SERVICES alkgroups none book entries can lists  unked Mode (TMO) Services  irrect Mode (DMO) Services  mergency (tailored by users)	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning  Tactical Non-Tactical Individual Smart emergency Hot Mic Location Target Address Alarm (status message)	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex Full Duplex  Up to 10,000 groups Attachment signalling, supports SWMI initiated attachment/detachment Group call Private call Emergency Group Call to ATTACHED talkgroup Emergency Group Call to DEDICATED talkgroup Emergency Call to PREDEFINED party (half/full duplex) TMO/DMO/DMO to TMO automatic switching options Configurable timers for automatic open mic (talk without PTT) Location (GPS) sent with emergency Sent to individual or group address (selected or dedicated) Emergency Status (or other pre-defined status)	
acking Sensitivity ccuracy pocation Protocols  OICE SERVICES alkgroups hone book entries can lists  runked Mode (TMO) Services  irect Mode (DMO) Services  mergency (tailored by users)	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning  Tactical Non-Tactical Individual Smart emergency Hot Mic Location Target Address Alarm (status message)  Alias messages Options	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex  Full Duplex  Up to 10,000 groups Attachment signalling, supports SWMI initiated attachment/detachment Group call Private call Emergency Group Call to ATTACHED talkgroup Emergency Call to PEDICATED talkgroup Emergency Call to PREDEFINED party (half/full duplex) TMO/DMO/DMO to TMO automatic switching options Configurable timers for automatic open mic (talk without PTT) Location (GPS) sent with emergency Sent to individual or group address (selected or dedicated) Emergency Status (or other pre-defined status)	
acking Sensitivity ccuracy ccation Protocols  COICE SERVICES alkgroups none book entries can lists  unked Mode (TMO) Services  irect Mode (DMO) Services  mergency (tailored by users)  DATA SERVICES tatus	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning  Tactical Non-Tactical Individual Smart emergency Hot Mic Location Target Address Alarm (status message)	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex  Full Duplex  Up to 10,000 groups Attachment signalling, supports SWMI initiated attachment/detachment Group call Private call Emergency Group Call to ATTACHED talkgroup Emergency Group Call to DEDICATED talkgroup Emergency Continue of the party (half/full duplex) TMO/DMO/DMO to TMO automatic switching options Configurable timers for automatic open mic (talk without PTT) Location (GPS) sent with emergency Sent to individual or group address (selected or dedicated) Emergency Status (or other pre-defined status)  400 Entries Can be sent via One-Touch or via menu 200 Entries (short messages), 40 Entries (long messages of up to 1000 characters)	
acking Sensitivity ccuracy ccation Protocols  OICE SERVICES alkgroups none book entries can lists  unked Mode (TMO) Services  rect Mode (DMO) Services  mergency (tailored by users)  ATA SERVICES atus	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning  Tactical Non-Tactical Individual Smart emergency Hot Mic Location Target Address Alarm (status message)  Alias messages Options	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex  Full Duplex  Up to 10,000 groups Attachment signalling, supports SWMI initiated attachment/detachment Group call Private call Emergency Group Call to ATTACHED talkgroup Emergency Call to PEDICATED talkgroup Emergency Call to PREDEFINED party (half/full duplex) TMO/DMO/DMO to TMO automatic switching options Configurable timers for automatic open mic (talk without PTT) Location (GPS) sent with emergency Sent to individual or group address (selected or dedicated) Emergency Status (or other pre-defined status)	
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acking Sensitivity ccuracy ocation Protocols  OICE SERVICES alkgroups none book entries can lists  unked Mode (TMO) Services  irect Mode (DMO) Services  mergency (tailored by users)  ATA SERVICES tatus  nort Data Service (SDS)	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning  Tactical Non-Tactical Individual Smart emergency Hot Mic Location Target Address Alarm (status message)  Alias messages Options Inbox  Target Address Voice Call Interaction Multi-slot PD	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex Full Duplex  Up to 10,000 groups Attachment signalling, supports SWMI initiated attachment/detachment Group call Private call Emergency Group Call to ATTACHED talkgroup Emergency Group Call to DEDICATED talkgroup Emergency Group Call to DEDICATED talkgroup Emergency Call to PREDEFINED party (half/full duplex) TMO/DMO/DMO to TMO automatic switching options Configurable timers for automatic open mic (talk without PTT) Location (GPS) sent with emergency Sent to individual or group address (selected or dedicated) Emergency Status (or other pre-defined status)  400 Entries Can be sent via One-Touch or via menu 200 Entries (short messages), 40 Entries (long messages of up to 1000 characters) Cellular style iTAP predictive text entry Sent to individual or group address (selected or dedicated)	
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racking Sensitivity ccuracy ocation Protocols  /OICE SERVICES alkgroups hone book entries can lists	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning  Tactical Non-Tactical Individual Smart emergency Hot Mic Location Target Address Alarm (status message)  Alias messages Options Inbox  Target Address Voice Call Interaction Multi-slot PD TETRA Enhanced Data Service (TEDS) (via software upgrade)	2 meter (50% probable) @-130dBm 2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP) Motorola LRRP  10,000 TMO, 2000 DMO 1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex Full Duplex Up to 10,000 groups Attachment signalling, supports SWMI initiated attachment/detachment Group call Private call Emergency Group Call to ATACHED talkgroup Emergency Group Call to DEDICATED talkgroup Emergency Group Call to DEDICATED talkgroup Emergency Group Call to TADENED party (halff-full duplex) TMO/DMO/DMO to TMO automatic switching options Configurable timers for automatic open mic (talk without PTT) Location (GPS) sent with emergency Sent to individual or group address (selected or dedicated) Emergency Status (or other pre-defined status)  400 Entries Can be sent via One-Touch or via menu 200 Entries (short messages), 40 Entries (long messages of up to 1000 characters) Cellular style iTAP predictive text entry Sent to individual or group address (selected or dedicated) SDS messages can be sent and received during a voice call Data transmission with up to 4 slots supporting up to 28.8 kbit/s gross Supporting 25kHz and 50kHz channel bandwidths and enabling practical data rates of up to 80kbit/s QAM Modulation/coding modes: 4-0AM R1/2, 16-0AM R1/2, 64-0AM R1/2, and 64-0AM R2/3 Integrated Openwave browser	
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## **MTM5000 SERIES SPECIFICATIONS**

GATEWAY SERVICES			
		MTM5400	MTM5500
		Group voice calls fro	m DMO to TMO
		Group voice calls from TMO to DMO	
		Emergency group call from DMO to TMO	
		Emergency group call t	
DMO/TMO Gateway		Call Pre-emption (in either direction)	
		SDS messaging from DMO to TMO (including GPS)	
		or from TMO to DMO*	
		Configurable routing of SDS messages to console or PEI*	
		Intelligent handling of point to point calls and SDS messages whilst operating as a Gateway*	
REPEATER SERVICES			
		Repeats DMO voice calls on selected talkgroup	
		Repeats SDS and Status messa	· ·
		ETSI type 1A DMO Repeater for	
		Transmission of Repea	
OMO Repeater		Priority	•
		Emergency Call (Pre-er	
		E2EE Encrypted	
		Monitoring of and participation in	
		Configurable Repea	
NTERFACES			
RS232		Four Virtual Ports via AT Multiplexer enable PC applications to r	un simultaneously Packet Data AT Commands SDS SCOLE
10202		USB 2.0 support for PEI (Two Virtual Ports v	
		applications to run simultaneously	
JSB		USB 2.0 support for PEI (Four Virtual Ports via AT Multiplexer enable PC applications to run simultaneously Packet Data, AT Commands, SDS, SCOUT); rapid programming	
		USB On-The-Go (host & slave) capability for intelligent PEI applications	
		USB 1.1 support (Host Mode) to manage USB Slave Devices (e.g. SIM CARD READER)	
Rugged Accessory Connector (GCAI	1	GCAI - Motorola accessory and ancillary interface for conn	
lugged Accessory Connector (dCA)			
General Purpose Input/Output	Digital I/O	7 (4 on remote and motorcycle co	
	Analog input	4 (1 on remote and motorcycle control head, with 4 levels)	
SECURITY FEATURES			
	Algorithms	TEA1, TEA	2, TEA3
Air Interface Encryption	Security Classes	Class 1 (Clear), Class	2 (SCK), Class 3G
	Authentication	Infrastructure initiated and r	made mutual by terminal
Provisioning		Secure provisioning tool via I	Key Variable Loader (KVL)
		PIN/PUK cod	e access
User Access Control	Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/RUI) Operation	Based on login credentials, a radio use capabilities defined in pre-installed service	
Data	. , , , , , , , , , , , , , , , , , , ,	Packet Data user	authentication
	Voice E2EE	Enhanced End to End Encryption	
End to End Encryption (EtEE)	Packet Data E2EE Short Data (SDS) E2EE	Universal Crypto Module (UCM) and S Cryptr 2 Broadt	IM (via integrated card slot) and or
	Short Data (SDS) EZEE	стури 2 втоаи.	idinu ir uilit.
REGULATORY COMPLIA	NCE		
Radio (RED Article 3.2)		EN 302 561	
EMC (R&TTE Article 3.1.b)		EN 301 489-1	
		EN 301 489-18	
Electrical Safety (R&TTE Article 3.1	al	EN 609	
incomoun datety (Hox112 Article 3.1	.uj	EN50360 EME	
Environmental		WEEE Directive	
		EN50155 (IEC 60	
Automotive		E-mark, ECE Regulation No.10 for El	
Rail Certification EMC		EN50121-3-2 (IEC 62236-3-2 Ed.2.0)	

<sup>\*</sup> Future software release

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

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