

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 market¹

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 option²

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 applicat	ions, 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.

USER INTERFA	ACE & DISPLAY			
	Diagonal dimension	2.8"		
Display	Type	640x480 pixels, 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		
Buttons & Keypad	International keypad versions ³	Roman, Arabic, Cyrillic, Korean, Chinese, Taiwanese characters		
	Programmable function keys	3 programmable function keys (plus 10 programmable numeric keys)		
	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		
,	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, Lithuar Macedonian, Mongolian, Norwegian, Portuguese, Russian, Spanish, Swedish		
Languages	User defined	User programmable, using ISO 8859-1 character		
	<u>'</u>	Tailored to user needs		
Menu		Menu Shortcuts		
		Menu Configuration		
Contacts Manageme	ent	Cellular Type		
Contact List		Up to 1000 contacts		
Contact List		Up to 6 numbers per contact, Max 2000 numbers		
Multiple Dialling Me	thods	User selects how to dial		
Fast/Flexible Call Re	sponse	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	ext Input	All Control Heads		
Status list	·	400		
Country/Network Co	de List	100		
Scan lists		40 lists of 20 groups		
Discrete Mode		All Control Heads		
Screen Saver		gif image & text (any user's selection)		
Universal Time Displ	J - J			
Keypad Lock		All Control Heads		
T.II. 5.11		Dual layer folder structure (folder/subfolder)		
Talkgroup Folders		256 folders		
Favourite Folders		Up to 3 (to store any favourite talkgroup)		

MTM5000 SERIES SPECIFICATIONS

	PECIFICATIONS		
Operating Temperature (°C)			30 to +60
Storage Temperature (°C) Not in use - Storage	ETSI 300 019-1-1 CLASS 1.3	-40 to +85 Non-Weather Protected Storage Locations	
Not in use - Storage Not in use - Transportation	ETSI 300 019-1-1 CLASS 1.3	Public Transportation	
Stationary use - Weather	ETSI 300 019-1-3 CLASS 3.2	Partly Temperature Controlled Locations	
Protected Locations Mobile use - Ground Vehicle			
Installation	ETSI 300 019-1-5 CLASS 5.2	Climatic Tests	
Mobile use - Ground Vehicle Installation	ETSI 300 019-1-5 CLASS 5M3	Mechanical Tests	
Rail Certification	EN50155:2007 and IEC60571 ED.3.0	Environmental	
Environmental MIL CTD		All 11 categories met (or exceeded)	
MIL STD Dust and Water Ingress	810 C/D/E/F/G Specifications IP54 (dust cat. 2)	Dash/Desk/Remote models	
Protection	IP67	Motorcycle model (only control head is IP67; transceiver is IP54)	MTM5500 TSCH IP55
ELECTRICAL SPECIFIC	CATIONS	BATTAT 400	BATTA AFFOO
/-lt D		MTM5400	MTM5500
/oltage Range	Idle / Rx / Tx @ 10W		1.2 (TX 3.4A Peak)
	Idle / Rx / Tx @ 3W		/ .9 (TX 2.2A Peak)
Current Consumption (A, typ.)	Tx - Multi Slot PD (4 slots) @ 5.6W	5.07 1.0	2.7
	Tx - TEDS @ 3W		2.3
	Using USB host		Adds 0.5A
RF SPECIFICATIONS			
		250, 200, 200	420 410 470 906 970
requency Bands (MHz)	TETRA Release 1		430, 410 - 470, 806 - 870 ; 2) and 3W, (Class 3)
Fransmitter RF Power	TETRA Release 2 (TEDS)		N, (Class 3)
RF Power Control	6 Power Step Levels (steps of 5 dBm)		IBm; finishing at 40 dBm
Receiver Class			A & B
Receiver Static Sensitivity (dBn			16 typical (ETSI 300-392-2)
Receiver Dynamic Sensitivity (c	ואווו	-105 mınimum, -1	07 typical (ETSI 300-392-2)
GNSS SPECIFICATION	NS .		
Simultaneous Satellite System	S	GPS plus one other	GNSS, eg GLONASS, BeiDou
Mode of Operation			g, SBAS capable, 72 channel
GNSS Antenna			antenna (5V, 25mA supply)
Fracking Sensitivity			6 probable) @-130dBm
Accuracy		2m (50% probable) @-130dBm ETSI Location Information Protocol (LIP)	
Location Protocols			otorola LRRP
VOICE SERVICES			
VUICE SERVICES			
Follograupa		10.000	TMAC 2000 DMAC
			TMO, 2000 DMO
Phone book entries		1000 persons. Up to 6 numbers per	entry (mobile, office etc). Max 2000 entries
Phone book entries	Group call	1000 persons. Up to 6 numbers per 40 lists	•
Phone book entries	Group call Private call	1000 persons. Up to 6 numbers per 40 lists Late Entry,	entry (mobile, office etc). Max 2000 entries of 20 talkgroups
Phone book entries Scan lists	Private call Telephony	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex
Phone book entries Scan lists	Private call Telephony (PABX, PSTN, MS-ISDN)	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex ull Duplex
Phone book entries Scan lists	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex ull Duplex 10,000 groups
Phone book entries Scan lists Frunked Mode (TMO) Services	Private call Telephony (PABX, PSTN, MS-ISDN)	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half F Up to Attachment signalling, supports	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex ull Duplex
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Phone book entries Scan lists Frunked Mode (TMO) Services	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning Tactical	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half Up to Attachment signalling, supports Emergency Group	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex 10,000 groups SWMI initiated attachment/detachment Group call Vrivate call Call to ATTACHED talkgroup
Phone book entries Scan lists Frunked Mode (TMO) Services	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning Tactical Non-Tactical	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half F Up to Attachment signalling, supports Emergency Group Emergency Group	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex ull Duplex 10,000 groups SWMI initiated attachment/detachment Group call trivate call Call to ATTACHED talkgroup Call to DEDICATED talkgroup
Phone book entries Scan lists Frunked Mode (TMO) Services Direct Mode (DMO) Services	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning Tactical Non-Tactical Individual	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half Up to Attachment signalling, supports Emergency Group Emergency Call to PRE	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex ull Duplex 10,000 groups SWMI initiated attachment/detachment Group call trivate call Call to ATTACHED talkgroup JEFINED party (half/full duplex)
Phone book entries Scan lists Frunked Mode (TMO) Services Direct Mode (DMO) Services	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning Tactical Non-Tactical	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half Up to Attachment signalling, supports Emergency Group Emergency Group Emergency Call to PRE TMO/DMO/DMO to TM	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex ull Duplex 10,000 groups SWMI initiated attachment/detachment Group call trivate call Call to ATTACHED talkgroup Call to DEDICATED talkgroup
Phone book entries Scan lists Frunked Mode (TMO) Services Direct Mode (DMO) Services	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning Tactical Non-Tactical Individual Smart emergency	1000 persons. Up to 6 numbers per 40 lists Late Entry, Halt F Up to Attachment signalling, supports Emergency Group Emergency Group (Emergency Call to PRE TMO/DMO/DMO to TI Configurable timers for au	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex Ull Duplex 10,000 groups SWMI initiated attachment/detachment Group call trivate call Call to ATTACHED talkgroup DEFINED party (half/full duplex) #/O automatic switching options
Phone book entries Scan lists Frunked Mode (TMO) Services Direct Mode (DMO) Services	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning Tactical Non-Tactical Individual Smart emergency Hot Mic Location Target Address	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half F Up to Attachment signalling, supports F Emergency Group Emergency Group Emergency Group (Emergency Group (Emergency Group) Configurable timers for au Location (GPS Sent to individual or grou	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex iull Duplex 10,000 groups SWMI initiated attachment/detachment Group call rivate call Call to ATTACHED talkgroup Call to DEDICATED talkgroup DEFINED party (half/full duplex) MO automatic switching options tomatic open mic (talk without PTT) s) sent with emergency up address (selected or dedicated)
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Phone book entries Scan lists Frunked Mode (TMO) Services Direct Mode (DMO) Services Emergency (tailored by users) DATA SERVICES	Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning Tactical Non-Tactical Individual Smart emergency Hot Mic Location Target Address Alarm (status message)	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half Up to Attachment signalling, supports Emergency Group Emergency Group Emergency Call to PRE TMO/DMO/DMO to Tf Configurable timers for au Location (GPS Sent to individual or group Emergency Status	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex ull Duplex 10,000 groups SWMI initiated attachment/detachment Group call rivate call Call to ATACHED talkgroup Call to DEDICATED talkgroup DEFINED party (half/full duplex) uld outomatic switching options tomatic open mic (talk without PTT) s) sent with emergency up address (selected or dedicated) (or other pre-defined status)
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Phone book entries ican lists Trunked Mode (TMO) Services Direct Mode (DMO) Services Emergency (tailored by users) DATA SERVICES Status	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/Outbox Predictive Text Target Address	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half Up to Attachment signalling, supports Emergency Group Emergency Group Emergency Call to PRE TMO/DMO/DMO to TM Configurable timers for au Location (GPS Sent to individual or group Emergency Status 4 Can be sent via Up to 200 En At least 10 Entries At least 10 Entries Cellular style il Sent to individual or group	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex 10,000 groups SWMI initiated attachment/detachment Group call trivate call Call to ATTACHED talkgroup DEFINED party (half/full duplex) MO automatic switching options tomatic open mic (talk without PTT) 6) sent with emergency up address (selected or dedicated) (or other pre-defined status) 00 Entries 0 One-Touch or via menu tries (short messages) for Outbox (long messages) Touch or via dedicated) (ap address (selected or dedicated) (by paddress (selected or dedicated) (corties (short messages) for Outbox (long messages) TAP predictive text entry up address (selected or dedicated)
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Phone book entries Scan lists Frunked Mode (TMO) Services Direct Mode (DMO) Services Emergency (tailored by users) DATA SERVICES Status Short 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/Outbox Predictive Text Target Address Voice Call Interaction Multi-slot PD TETRA Enhanced Data Service	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half Up to Attachment signalling, supports Emergency Group Emergency Group Emergency Call to PRE TMO/DMO/DMO to TM Configurable timers for au Location (GPS Sent to individual or group Emergency Status 4 Can be sent via Up to 200 En At least 10 Entries At least 10 Entries Cellular style ii Sent to individual or group Emergency Status 4 Can be sent via Up to 200 En At least 10 Entries At least 10 Entries Cellular style ii Sent to individual or group SDS messages can be se Data transmission with up to 4	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex ull Duplex 10,000 groups SWMI initiated attachment/detachment Group call Private call Call to ATTACHED talkgroup DEFINED party (half/full duplex) MO automatic switching options tomatic open mic (talk without PTT) S) sent with emergency up address (selected or dedicated) (or other pre-defined status) 00 Entries 01 entries 02 entries 03 entries 04 entries 05 entries 06 entries 07 entries 08 entries 09 entries 09 entries 09 entries 00
Phone book entries Scan lists Frunked Mode (TMO) Services Direct Mode (DMO) Services Emergency (tailored by users) DATA SERVICES Status Short 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/Outbox Predictive Text Target Address Voice Call Interaction Multi-slot PD	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half Up to Attachment signalling, supports Emergency Group Emergency Group Emergency Call to PRE TMO/DMO/DMO to TM Configurable timers for au Location (GPS Sent to individual or group Emergency Status 4 Can be sent via Up to 200 En At least 20 Entries At least 10 Entries Cellular style if Sent to individual or group Emergency Status 4 Can be sent via Up to 200 En At least 20 Entries At least 20 Entries At least 20 Entries At least 10 Entries Cellular style if Sent to individual or group SDS messages can be see Data transmission with up to 4 Supporting 25kHz and 50kHz channel bandwing	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex ull Duplex 10,000 groups SWMI initiated attachment/detachment Group call rivate call Call to ATTACHED talkgroup DEFINED party (half/full duplex) //O automatic switching options tomatic open mic (talk without PTT) S) sent with emergency up address (selected or dedicated) (or other pre-defined status) 00 Entries One-Touch or via menu tries (short messages) for Outbox (long messages) for Outbox (long messages) 'AP predictive text entry up address (selected or dedicated) nt and received during a voice call slots supporting up to 28.8 kbit/s gross ths and enabling practical data rates of up to 80kbit/s
Phone book entries Scan lists Frunked Mode (TMO) Services Direct Mode (DMO) Services Emergency (tailored by users) DATA SERVICES Status Short 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/Outbox Predictive Text Target Address Voice Call Interaction Multi-slot PD TETRA Enhanced Data Service	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half Up to Attachment signalling, supports Emergency Group Emergency Group Emergency Call to PRE TMO/DMO/DMO to TM Configurable timers for au Location (GPS) Sent to individual or group Emergency Status 4 Can be sent via Up to 200 En At least 20 Entries At least 10 Entries Cellular style in Sent to individual or group Emergency Status 4 Can be sent via Up to 200 En At least 20 Entries At least 10 Entries At least 10 Entries Cellular style in Sent to individual or group SDS messages can be see Data transmission with up to 4 Supporting 25kHz and 50kHz channel bandwice	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex ull Duplex 10,000 groups SWMI initiated attachment/detachment Group call rivate call Call to ATTACHED talkgroup DEFINED party (half/full duplex) //O automatic switching options tomatic open mic (talk without PTT) S) sent with emergency up address (selected or dedicated) (or other pre-defined status) 00 Entries 0.0ne-Touch or via menu tries (short messages) for Outbox (long messages) for Outbox (long messages) /*AP predictive text entry up address (selected or dedicated) nt and received during a voice call slots supporting up to 28.8 kbit/s gross lths and enabling practical data rates of up to 80kbit/s d 50 kHz (but not D8PSK channels)
Phone book entries Scan lists Frunked Mode (TMO) Services Direct Mode (DMO) Services Emergency (tailored by users) DATA SERVICES Status Short 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/Outbox Predictive Text Target Address Voice Call Interaction Multi-slot PD TETRA Enhanced Data Service	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half Up to Attachment signalling, supports Emergency Group Emergency Group Emergency Call to PRE TMO/DMO/DMO to TM Configurable timers for au Location (GPS Sent to individual or group Emergency Status 4 Can be sent via Up to 200 En At least 20 Entries At least 10 Entries At least 10 Entries Cellular style if Sent to individual or group Emergency Status 4 Can be sent via Up to 200 En At least 10 Entries At least 10 Entries At least 10 Entries At least 10 Entries Cellular style if Sent to individual or group SDS messages can be se Data transmission with up to 4 Supporting 25kHz and 50kHz channel bandwice QAM Channels: 25 kHz ar	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex 10,000 groups SWMI initiated attachment/detachment Group call trivate call Call to ATTACHED talkgroup DEFINED party (half/full duplex) MO automatic switching options tomatic open mic (talk without PTT) s) sent with emergency up address (selected or dedicated) (or other pre-defined status) 00 Entries 00 Entries 00 Entries 10 Hose-Touch or via menu tries (short messages) for Outbox (long messages) Tour Inbox (long messages) TAP predictive text entry up address (selected or dedicated) nt and received during a voice call slots supporting up to 28.8 kbit/s gross Iths and enabling practical data rates of up to 80kbit/s d 50 kHz (but not D8PSK channels) ation/coding modes:
Phone book entries Scan lists Frunked Mode (TMO) Services Direct Mode (DMO) Services Emergency (tailored by users) DATA SERVICES Status Short 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/Outbox Predictive Text Target Address Voice Call Interaction Multi-slot PD TETRA Enhanced Data Service	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half Up to Attachment signalling, supports Emergency Group Emergency Group Emergency Call to PRE TMO/DMO/DMO to TR Configurable timers for au Location (GPS) Sent to individual or grou Emergency Status 4 Can be sent via Up to 200 En At least 20 Entries At least 10 Entries Cellular style if Sent to individual or grou SDS messages can be se Data transmission with up to 4 Supporting 25kHz and 50kHz channel bandwir QAM Channels: 25 kHz an QAM modul 4-0AM R1/z, 16-0AM R1/z	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex ull Duplex 10,000 groups SWMI initiated attachment/detachment Sroup call Vivate call Call to ATTACHED talkgroup DEFINED party (half/full duplex) //O automatic switching options tomatic open mic (talk without PTT) S) sent with emergency up address (selected or dedicated) (or other pre-defined status) 00 Entries 1.0 ne-Touch or via menu tries (short messages) for Outbox (long messages) for Outbox (long messages) TAP predictive text entry up address (selected or dedicated) nt and received during a voice call slots supporting up to 28.8 kbit/s gross ths and enabling practical data rates of up to 80kbit/s d 50 kHz (but not D8PSK channels) ation/coding modes: 2, 64-OAM R1/2, and 64-QAM R2/3
Phone book entries Scan lists Trunked Mode (TMO) Services Direct Mode (DMO) Services Emergency (tailored by users) DATA SERVICES Status Short Data Service (SDS) Packet Data (PD) TEDS (capable)	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/Outbox Predictive Text Target Address Voice Call Interaction Multi-slot PD TETRA Enhanced Data Service (TEDS) (via software upgrade)	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half Up to Attachment signalling, supports Emergency Group Emergency Group Emergency Call to PRE TMO/DMO/DMO to TR Configurable timers for au Location (GPS) Sent to individual or grou Emergency Status 4 Can be sent via Up to 200 En At least 20 Entries At least 10 Entries Cellular style if Sent to individual or grou SDS messages can be se Data transmission with up to 4 Supporting 25kHz and 50kHz channel bandwir QAM Channels: 25 kHz an QAM modul 4-0AM R1/z, 16-0AM R1/z	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex 10,000 groups SWMI initiated attachment/detachment Group call trivate call Call to ATTACHED talkgroup DEFINED party (half/full duplex) MO automatic switching options tomatic open mic (talk without PTT) s) sent with emergency up address (selected or dedicated) (or other pre-defined status) 00 Entries 00 Entries 00 Entries 10 Hose-Touch or via menu tries (short messages) for Outbox (long messages) Tour Inbox (long messages) TAP predictive text entry up address (selected or dedicated) nt and received during a voice call slots supporting up to 28.8 kbit/s gross Iths and enabling practical data rates of up to 80kbit/s d 50 kHz (but not D8PSK channels) ation/coding modes:
Phone book entries Scan lists Trunked Mode (TMO) Services Direct Mode (DMO) Services Emergency (tailored by users) DATA SERVICES Status Short Data Service (SDS) Packet Data (PD) TEDS (capable)	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/Outbox Predictive Text Target Address Voice Call Interaction Multi-slot PD TETRA Enhanced Data Service (TEDS) (via software upgrade)	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half Up to Attachment signalling, supports Emergency Group Emergency Group Emergency Call to PRE TMO/DMO/DMO to Tf Configurable timers for au Location (GPS Sent to individual or group Emergency Status 4 Can be sent via Up to 200 En At least 20 Entries At least 10 Entries Cellular style if Sent to individual or group SDS messages can be se Data transmission with up to 4 Supporting 25kHz and 50kHz channel bandwire QAM Channels: 25 kHz ar QAM modul 4-QAM R1/2, 16-QAM R1/	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex ull Duplex 10,000 groups SWMI initiated attachment/detachment Sroup call Vivate call Call to ATTACHED talkgroup DEFINED party (half/full duplex) //O automatic switching options tomatic open mic (talk without PTT) S) sent with emergency up address (selected or dedicated) (or other pre-defined status) 00 Entries 1.0 ne-Touch or via menu tries (short messages) for Outbox (long messages) for Outbox (long messages) TAP predictive text entry up address (selected or dedicated) nt and received during a voice call slots supporting up to 28.8 kbit/s gross ths and enabling practical data rates of up to 80kbit/s d 50 kHz (but not D8PSK channels) ation/coding modes: 2, 64-OAM R1/2, and 64-QAM R2/3
Talkgroups Phone book entries Scan lists Trunked Mode (TMO) Services Direct Mode (DMO) Services Emergency (tailored by users) DATA SERVICES Status Short Data Service (SDS) Packet Data (PD) TEDS (capable) WAP	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/Outbox Predictive Text Target Address Voice Call Interaction Multi-slot PD TETRA Enhanced Data Service (TEDS) (via software upgrade)	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half Up to Attachment signalling, supports Emergency Group Emergency Group Emergency Call to PRE TMO/DMO/DMO to TM Configurable timers for au Location (GPS Sent to individual or group Emergency Status 4 Can be sent via Up to 200 En At least 10 Entries At least 10 Entries Cellular style if Sent to individual or group SDS messages can be se Data transmission with up to 4 Supporting 25kHz and 50kHz channel bandwid QAM Channels: 25 kHz an QAM modul 4-QAM R1/2, 16-QAM R1/ Integrated WAP 1.2.x and WAP 2. AT Commands - Full S	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex ull Duplex 10,000 groups SWMI initiated attachment/detachment Group call Virvate call Call to ATTACHED talkgroup DEFINED party (half/full duplex) MO automatic switching options tomatic open mic (talk without PTT) S) sent with emergency up address (selected or dedicated) (or other pre-defined status) 00 Entries 0 noe-Touch or via menu tries (short messages) for Outbox (long messages) For Inbox (long messages) For Predictive text entry up address (selected or dedicated) and received during a voice call slots supporting up to 28.8 kbit/s gross dths and enabling practical data rates of up to 80kbit/s d 50 kHz (but not D8PSK channels) ation/coding modes: 2, 64-QAM R1/2, and 64-QAM R2/3 Openwave browser
Phone book entries Scan lists Frunked Mode (TMO) Services Direct Mode (DMO) Services Emergency (tailored by users) DATA SERVICES Status Short Data Service (SDS) Packet Data (PD)	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/Outbox Predictive Text Target Address Voice Call Interaction Multi-slot PD TETRA Enhanced Data Service (TEDS) (via software upgrade) Integrated WAP browser (including WAP-PUSH)	1000 persons. Up to 6 numbers per 40 lists Late Entry, Half F Up to Attachment signalling, supports Emergency Group Emergency Group Emergency Group Emergency Call to PRE TM0/DM0/DM0 to TT Configurable timers for au Location (GPS Sent to individual or group Emergency Status Can be sent via Up to 200 En At least 20 Entries At least 10 Entries At least 10 Entries Cellular style it Sent to individual or group Emergency Status At least 20 Entries At least 20 Entries At least 10 Entries Cellular style it Sent to individual or group SDS messages can be see Data transmission with up to 4 Supporting 25kHz and 50kHz channel bandwire QAM Channels: 25 kHz an QAM modul 4-QAM R1/z, 16-QAM R1/ Integrated WAP 1.2.x and WAP 2. AT Commands - Full S AT Multiplexer - 4 Virtual Physical Port (simulta	entry (mobile, office etc). Max 2000 entries of 20 talkgroups TMO/DMO Mapping / Full Duplex ull Duplex 10,000 groups SWMI initiated attachment/detachment Group call trivate call Call to ATTACHED talkgroup DEFINED party (half/full duplex) //O automatic switching options tomatic open mic (talk without PTT) S) sent with emergency up address (selected or dedicated) (or other pre-defined status) 00 Entries One-Touch or via menu tries (short messages) for Outbox (long messages) for Outbox (long messages) **AP predictive text entry up address (selected or dedicated) ent and received during a voice call slots supporting up to 28.8 kbit/s gross lths and enabling practical data rates of up to 80kbit/s d 50 kHz (but not D8PSK channels) ation/coding modes: 2, 64-QAM R1/2, and 64-QAM R2/3 Openwave browser

MTM5000 SERIES SPECIFICATIONS

		<u> </u>	
		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 from TMO to DMO	
DM0/TM0 Gateway		Call Pre-emption (in either direction)	
		SDS messaging through the gateway from DMO to TMO	
		or TMO to DMO	
		Configurable routing of SDS messages to console or PEI ⁵	
		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 Repeat	
OMO Repeater		Priority	
		Emergency Call (Pre-en	
		E2EE Encrypted	
		Monitoring of and participation in	
		Configurable Repeat	
NTERFACES			
RS232		Four Virtual Ports via AT Multiplexer enable PC applications to re	un simultaneously Packet Data, AT Commands, SDS, SCOUT
10202		USB 2.0 support for PEI (Two Virtual Ports v	
		applications to run simultaneously f	
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	, , , , , , , , , , , , , , , , , , , ,
D A C		11	
Rugged Accessory Connector (GCAI)		GCAI - Motorola accessory and ancillary interface for conne	
General Purpose Input/Output	Digital I/O	7 (4 on remote and motorcycle co	ontrol head, 3 on transceiver)
	Analog input	4 (1 on remote and motorcycle	control head, with 4 levels)
SECURITY FEATURES			
	Algorithms	TEA1, TEA2	2, TEA3
Air Interface Encryption	Security Classes	Class 1 (Clear), Class	•
.'	Authentication	Infrastructure initiated and r	
Provisioning		Secure provisioning tool via k	
•		PIN/PUK cod	
	Service Profile Selection for Radio		1. 19. 25. 15. 1. 1. 11. 11.
Jser Access Control	User Assignment / Radio User Identity	Based on login credentials, a radio use capabilities defined in pre-installed service	
		capabilities defined in pre-installed service	profiles, selected by the infrastructure
User Access Control Data	User Assignment / Radio User Identity (RUA/RUI) Operation	capabilities defined in pre-installed service Packet Data user a	profiles, selected by the infrastructure authentication
Data	User Assignment / Radio User Identity (RUA/RUI) Operation	capabilities defined in pre-installed service Packet Data user : Enhanced End to End Encryption v	profiles, selected by the infrastructure authentication with OTAR supported through
Data	User Assignment / Radio User Identity (RUA/RUI) Operation	capabilities defined in pre-installed service Packet Data user a	profiles, selected by the infrastructure authentication with OTAR supported through M (via integrated card slot) and or
Oata and to End Encryption (EtEE)	User Assignment / Radio User Identity (RUA/RUI) Operation Voice E2EE Packet Data E2EE Short Data (SDS) E2EE	capabilities defined in pre-installed service Packet Data user a Enhanced End to End Encryption o Universal Crypto Module (UCM) and SI	profiles, selected by the infrastructure authentication with OTAR supported through M (via integrated card slot) and or
Data Ind to End Encryption (EtEE) REGULATORY COMPLIA	User Assignment / Radio User Identity (RUA/RUI) Operation Voice E2EE Packet Data E2EE Short Data (SDS) E2EE	capabilities defined in pre-installed service Packet Data user a Enhanced End to End Encryption v Universal Crypto Module (UCM) and SI Cryptr 2 Broadb	profiles, selected by the infrastructure authentication with OTAR supported through M (via integrated card slot) and or and IP unit.
Data End to End Encryption (EtEE) REGULATORY COMPLIA	User Assignment / Radio User Identity (RUA/RUI) Operation Voice E2EE Packet Data E2EE Short Data (SDS) E2EE	capabilities defined in pre-installed service Packet Data user a Enhanced End to End Encryption v Universal Crypto Module (UCM) and SI Cryptr 2 Broadb	profiles, selected by the infrastructure authentication with OTAR supported through M (via integrated card slot) and or and IP unit.
Data End to End Encryption (EEEE) REGULATORY COMPLIAN Radio (RED Article 3.2)	User Assignment / Radio User Identity (RUA/RUI) Operation Voice E2EE Packet Data E2EE Short Data (SDS) E2EE	capabilities defined in pre-installed service Packet Data user a Enhanced End to End Encryption v Universal Crypto Module (UCM) and SI Cryptr 2 Broadb	profiles, selected by the infrastructure authentication with OTAR supported through M (via integrated card slot) and or and IP unit.
Data End to End Encryption (EtEE) REGULATORY COMPLIAN Radio (RED Article 3.2)	User Assignment / Radio User Identity (RUA/RUI) Operation Voice E2EE Packet Data E2EE Short Data (SDS) E2EE	capabilities defined in pre-installed service Packet Data user a Enhanced End to End Encryption v Universal Crypto Module (UCM) and SI Cryptr 2 Broadb EN 302 EN 301 4 EN 301 4	profiles, selected by the infrastructure authentication with OTAR supported through M (via integrated card slot) and or and IP unit. 561 89-1 39-18
	User Assignment / Radio User Identity (RUA/RUI) Operation Voice E2EE Packet Data E2EE Short Data (SDS) E2EE	capabilities defined in pre-installed service Packet Data user a Enhanced End to End Encryption v Universal Crypto Module (UCM) and Si Cryptr 2 Broadb EN 302 EN 301 4 EN 6098	profiles, selected by the infrastructure authentication with OTAR supported through M (via integrated card slot) and or and IP unit. 561 89-1 39-18 60-1
Data End to End Encryption (EtEE) REGULATORY COMPLIAN Radio (RED Article 3.2) EMC (R&TTE Article 3.1.b)	User Assignment / Radio User Identity (RUA/RUI) Operation Voice E2EE Packet Data E2EE Short Data (SDS) E2EE	capabilities defined in pre-installed service Packet Data user a Enhanced End to End Encryption v Universal Crypto Module (UCM) and SI Cryptr 2 Broadb EN 302 EN 301 4 EN 301 4 EN 6095 EN50360	profiles, selected by the infrastructure authentication with OTAR supported through M (via integrated card slot) and or and IP unit. 561 89-1 39-18 50-1 EME
Data End to End Encryption (EtEE) REGULATORY COMPLIAN Radio (RED Article 3.2) EMC (R&TTE Article 3.1.b) Electrical Safety (R&TTE Article 3.1.	User Assignment / Radio User Identity (RUA/RUI) Operation Voice E2EE Packet Data E2EE Short Data (SDS) E2EE	capabilities defined in pre-installed service Packet Data user a Enhanced End to End Encryption of Universal Crypto Module (UCM) and SI Cryptr 2 Broadb EN 302 EN 302 EN 301 4 EN 3014 EN 6095 EN50360 WEEE Dir	profiles, selected by the infrastructure authentication with OTAR supported through M (via integrated card slot) and or and IP unit. 561 89-1 89-18 50-1 EME ective
Data End to End Encryption (EtEE) REGULATORY COMPLIAN Radio (RED Article 3.2) EMC (R&TTE Article 3.1.b)	User Assignment / Radio User Identity (RUA/RUI) Operation Voice E2EE Packet Data E2EE Short Data (SDS) E2EE	capabilities defined in pre-installed service Packet Data user a Enhanced End to End Encryption v Universal Crypto Module (UCM) and SI Cryptr 2 Broadb EN 302 EN 301 4 EN 301 4 EN 6095 EN50360	profiles, selected by the infrastructure authentication with OTAR supported through M (via integrated card slot) and or and IP unit. 561 889-1 899-18 50-1 EME ective 1571 ED. 3.0)

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

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 $^{{}^{\}scriptscriptstyle 1}\!Assuming$ the appropriate audio accessory is used

²Model specific

³For availability of other language keypads please contact your local Motorola Solutions representative

⁴Long messages of up to 1,000 characters

⁵Future software release