





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 Services) 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 (MTM5400/5500), 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

 Next generation 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 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 GPC, GLONASS and BeiDou, as well as Satellite Based Augmentation Systems (SBAS) including WASS, EGNOS, MSASA, GAGAN and QZESS (Japan)

ADVANCED TERMINAL MANAGEMENT

• USB 2.0 interface for fast radio programming via Motorola's Integrated Terminal Management (ITM) solution

FLEXIBLE INSTALLATION OPTIONS

- Fully DIN-A 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 Controls (RDC) protocols

RUGGED DESIGN WITH EXCEPTIONAL RELIABILITY

- Includes IP67 control head option (MTM5200/5400), for exposed and challenging environments
- Front and Rear rugged GCAl connector for reliable connection of audio and data peripheral equipment
- Mobile radio and accessories are performance matched for enhanced reliability

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^{*} Assuming the appropriate audio accessory is used ** Model specific



The **MTM5200** is the base model in the MTM5000 Series of TETRA radios. It shares the enhanced audio and receiver sensitivity, as well as being TEDS-ready for high speed data service which will enhance operation.



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 control head either the Remote Ethernet Control Head (ReCH) or the TSCH. The ability to control multiple radios is essential for multiple agency, joint operations or bilateral cross border operations.





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.

MTM5200 AND MTM5400

EXPANSION HEAD OPTIONS



EXPANSION HEADSINGLE STD CONNECTION



EXPANSION HEAD ENHANCED STD AND AUXILARY 25 PIN AND RS232

CONTROL HEAD OPTIONS



STANDARD CONTROL HEAD



REMOTE CONTROL HEAD



IP67 CONTROL

INSTALLATION OPTIONS



DASH MOUNT CAR, TRUCK



DESK MOUNT CONTROL CENTRE



MTM5500

EXPANSION HEAD OPTIONS



ETHERNET EXPANSION HEAD

 $2\mathsf{X}\,\mathsf{STD},\mathsf{ETHERNET}\,\mathsf{TYPE},\mathsf{ETHERNET}\,\mathsf{SIM}\,\mathsf{READER}\,\mathsf{AND}\,\mathsf{RS}232$

CONTROL HEAD OPTIONS



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



TELEPHONE STYLE CONTROL HEAD

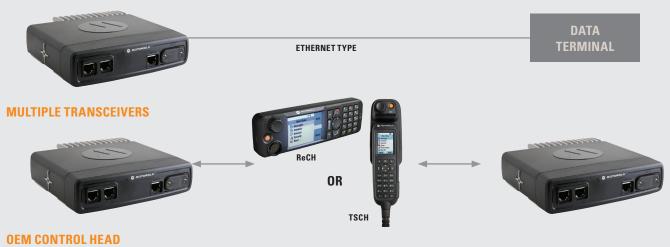
SUPPORTS EXTERNAL ACCESSORIES

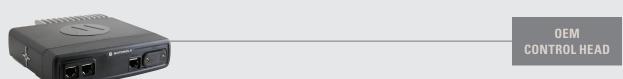
INSTALLATION OPTIONS

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



DATA ONLY





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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 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.





ANTENNAS



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

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MOBILE MICROPHONES



RMINI5054 SMART VISOR MIC Requires external PTT such as RLN5926A



RIMN5107 COMPACT MOBILE MICROPHONE



MDHLN7016* IMPRES TELEPHONE STYLE HANDSET KIT



RMN5111 HEAVY DUTY MICROPHONE



RMN5106 DESKTOP MICROPHONE



PMMN4087 VISOR MICROPHONE

INSTALLATION ACCESSORIES



PMLN4912 REMOTE MOUNT TRUNNION KIT



GLN7818 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

MTM5000 SERIES SPECIFICATIONS







MODELS - COMPLIANT WITH DIN 75490 (ISO 7736)				
	MTM5200	MTM5400	MTM5500	
Dash	Compact radio for fa	st vehicle installation	N.A.	
Desk	Compact radio, fo Optional range of accessories such as	N.A.		
MICL B O . III	N.	Radio with multiple remote mount control head capability.		
Multiple Remote Control Head	N.A.		Range of installation options enable use in cars, vans and other vehicles	
Multiple Transceiver or Control	N.A. Radio with multiple remote mount control head capability.		Range of installation optionsenable use in cars, vans andother vehicles	
Motorcycle	Environmentally enhanced rac Suitable for demanding environments such as m	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)	Dimensions HxWxD (mm)	Weight Typical (g)
Dash and Desk models (transceiver + control head)	60x188x198	1300	60x188x198	1300	N.A	١.
Transceiver only	45x170x169	1070	45x170x169	1070	45x170x169	1070
Standard control head	60x188x31	230	60x188x31	230	N.A	١.
Remote control head	60x188x39	300	60x188x39	300	60x188x39	300
Motorcycle control head	60x188x39	320	60x188x39	320	N.A.	

Buttons & Keypad Navigation		VGA - 640x480 pixels Transflective TFT, 65,000 colours		
Backlight Font sizes SCH Numeric International k Programmable Navigation Emergency Shortcuts Dual Function LED Tones Standard Opti User defined Menu Contacts Management Contact List Multiple Dialling Methods ast/Flexible Call Response Multiple Dialling Tones Message Manager Fext message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		VUA - D4VX4OU DIXEIS ITALISHECLIVE TET, DD.UUU CUIQUIS		
Font sizes Font sizes SCH Numeric International k Programmable Navigation Emergency Shortcuts Dual Function LED Tones Standard Opti User defined Menu Contacts Management Contacts Management Contact List Multiple Dialling Methods Fast/Flexible Call Response Multiple Ping Tones Message Manager fext message list ntelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		Variable backlight, User configurable		
Buttons & Keypad Buttons & Forgammable Avigation Emergency Shortcuts Dual Function LED Tones Standard Opti User defined Menu Contacts Management Contact List Multiple Dialling Methods East/Flexible Call Response Multiple Ring Tones Message Ring Tones Message Manager Fext message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		Standard & Zoom mode (90 pixels, 4.5mm high) characters		
International k Programmable Navigation Emergency Shortcuts Rotary Dual Function Indication Indication User Interface Languages User Interface Languages User defined Menu Contacts Management Contact List Multiple Dialling Methods Fast/Flexible Call Response Multiple Ring Tones Message Manager Text message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		N.A. Available as option*		
Buttons & Keypad Programmable Navigation Emergency Shortcuts Oual Function Indication User Interface Languages User defined Menu Contacts Management Contact List Multiple Dialling Methods Fast/Flexible Call Response Multiple Ring Tones Message Manager Text message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		Integral backlit numeric keypad of 12 keys, with keypad lock option		
Buttons & Keypad Programmable Navigation Emergency Shortcuts Oual Function LED Tones User Interface Languages Wenu Contacts Management Contact List Multiple Dialling Methods Fast/Flexible Call Response Multiple Ring Tones Message Manager Lext message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver	keypad versions	Roman, Arabic, Cyrillic, Korean, Chinese, Taiwanese characters		
Auvigation Emergency Shortcuts Dual Function Indication Auvigation Emergency Shortcuts Dual Function Tones Standard Opti User defined Wenu Contacts Management Contact List Multiple Dialling Methods Fast/Flexible Call Response Multiple Ring Tones Message Manager Fext message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver	le function keys	3 programmable function keys (plus 10 programmable numeric keys)		
Emergency Shortcuts Poul Function Action Ac	,	4-way navigation key, menu and soft keys		
Rotary Dual Function Rotary Dual Function LED Tones Standard Opti Len User defined Menu Contacts Management Contact List Multiple Dialling Methods Fast/Flexible Call Response Multiple Ring Tones Message Manager Fext message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		Emergency button with backlight		
ILED Tones Jer Interface Languages Standard Opti User defined Menu Contacts Management Contact List Multiple Dialling Methods Fast/Flexible Call Response Multiple Ring Tones Message Manager Flext message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		User configurable shortcuts to menus and common features using "One-Touch-Button" feature		
Indication Jose Interface anguages Jer Interface Juser defined Wenu Contacts Management Contact List Multiple Dialling Methods Fast/Flexible Call Response Multiple Ring Tones Message Manager Text message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver	n	Talkgroup and volume change with lock option		
User Interface Languages Standard Opti User defined Menu Contacts Management Contact List Multiple Dialling Methods Fast/Flexible Call Response Multiple Ring Tones Message Manager Text message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		Tri-colour LED		
Anguages User defined Menu Contacts Management Contact List Multiple Dialling Methods Fast/Flexible Call Response Multiple Ring Tones Message Manager Text message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		Configurable notification tones		
Menu Contacts Management Contact List Multiple Dialling Methods Fast/Flexible Call Response Multiple Ring Tones Message Manager Text message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver	tions	Arabic, Chinese Simplified, Chinese Traditional, Croatian, Danish, Dutch, English, French, German, Greek, Hebrew, Hungarian, Italian, Korean, Lithus Macedonian, Mongolian, Norwegian, Portuguese, Russian, Spanish, Swedish		
Contacts Management Contact List Multiple Dialling Methods Fast/Flexible Call Response Multiple Ring Tones Message Manager Text message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		User programmable, using ISO 8859-1 character		
Contacts Management Contact List Multiple Dialling Methods Fast/Flexible Call Response Multiple Ring Tones Message Manager Fext message list ntelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		Tailored to user needs		
Contact List Multiple Dialling Methods Fast/Flexible Call Response Multiple Ring Tones Message Manager Text message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		Menu Shortcuts		
Contact List Multiple Dialling Methods Faat/Flexible Call Response Multiple Ring Tones Message Manager fext message list ntelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		Menu Configuration		
Multiple Dialling Methods Fast/Flexible Call Response Multiple Ring Tones Message Manager Text message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		Cellular Type		
Multiple Dialling Methods Fast/Flexible Call Response Multiple Ring Tones Message Manager Fext message list ntelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		Up to 1000 contacts		
Fast/Flexible Call Response Multiple Ring Tones Message Manager Fext message list intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		Up to 6 numbers per contact, Max 2000 numbers		
Multiple Ring Tones Message Manager Text message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		User selects how to dial		
Message Manager Text message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		Private Call Response to a Group Call via One Touch Button		
Text message list Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		Configurable with CPS		
Intelligent Keypad Text Input Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		Cellular Type		
Status list Country/Network Code List Scan lists Discrete Mode Screen Saver		20		
Country/Network Code List Scan lists Discrete Mode Screen Saver		All Control Heads		
Scan lists Discrete Mode Screen Saver		400		
Discrete Mode Screen Saver		100		
Screen Saver		40 lists of 20 groups		
		All Control Heads		
Injugraal Time Dienlay		gif image & text (any user's selection)		
Universal Time Display		All Control Heads		
Keypad Lock		All Control Heads		
Follower Foldoro		Dual layer folder structure (folder/subfolder)		
Talkgroup Folders		256 folders		

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^{*} Please refer to the separate specification sheet
** For availability of other language keypads please contact your local MSI representative

ENVIRONMENTAL SI	PECIFICATIONS				
Operating Temperature (°C)			-30 to +60		
Storage Temperature (°C)	ETSI 300 019-1-1 CLASS 1.3		-40 to +85		
Not in use - Storage Not in use - Transportation	ETSI 300 019-1-1 CLASS 1.3 ETSI 300 019-1-2 CLASS 2.3		Non-Weather Protected Storage Locations Public Transportation		
Stationary use - Weather			·		
Protected Locations Mobile use - Ground Vehicle	ETSI 300 019-1-3 CLASS 3.2	Partly Temperature Controlled Locations			
nstallation	ETSI 300 019-1-5 CLASS 5.2	Climatic Tests			
Mobile use - Ground Vehicle	ETSI 300 019-1-5 CLASS 5M3	Mechanical Tests			
Installation Rail Certification		Mechanical lests			
Environmental	EN50155:2007 and IEC60571 ED.3.0		Environmental		
MIL STD	810 C/D/E/F/G Specifications		All 11 categories met (or exceeded)		
Dust and Water Ingress	IP54 (dust cat. 2)		Dash/Desk/Remote models		
Protection	IP67	Motorcycle model (only c	ntrol head is IP67; transceiver is IP54)	MTM5500 TSCH IP55	
LECTRICAL SPECIFIC	CATIONS				
/oltage Range		MTM5200	MTM5400 10.8 to 15.6 V DC	MTM5500	
ortage riarige	Idle / Rx / Tx @ 10W	N.A.		.2 (TX 3.4A Peak)	
	Idle / Rx / Tx @ 3W	1400 %	0.5 / 1.0 / .9 (TX 2.2A Peak)	,	
Current Consumption (A, typ.)	Tx - Multi Slot PD (4 slots) @ 5.6W		I.A. (3W only)	2.7	
	Tx - TEDS @ 3W		2.3		
	Using USB host		Adds 0.5A		
RF SPECIFICATIONS					
requency Bands (MHz)	TETRA Release 1		350 - 390, 380 - 430, 410 - 470, 806 - 870	10/4/ 01 0.41 + 14000	
Fransmitter RF Power	TETRA Release 1 TETRA Release 2 (TEDS)		I.A. (3W only) 3W, Class 3	10W, Class 2 Note: MSPD	
RF Power Control	6 Power Step Levels (steps of 5 dBm)		Starting at 15 dBm; finishing at 40 dBm		
Receiver Class	5. Swor Grop Edvoid (stops of 3 doff)		A & B		
Receiver Static Sensitivity (dBn	n)		-114 minimum, -116 typical (ETSI 300-392-2)		
Receiver Static Sensitivity (dBin)			-105 minimum, -107 typical (ETSI 300-392-2)		
GPS SPECIFICATIONS	3				
Simultaneous Satellite Systems	S		GPS plus one other GNSS, eg GLONASS, BeiDo	u	
Mode of Operation		Concurrent tracking, SBAS capable, 72 channel			
GNSS Antenna		Supports active antenna (5V, 25mA supply) -163 dBm			
Autonomous Acquisition Sensitivity Tracking Sensitivity		- 163 dBm			
Location Protocols	,		ETSI Location Information Protocol (LIP)		
20041011110101010			Motorola LRRP		
VOICE SERVICES			10.000 TMAC 2000 DMAC		
Falkgroups Phone book entries		1000 nor	10,000 TMO, 2000 DMO ons. Up to 6 numbers per entry (mobile, office etc).	Max 2000 entries	
Can lists		Tood per	40 lists of 20 talkgroups	IVIAN ZUUU GIILIITS	
	Group call		Late Entry, TMO/DMO Mapping		
	Private call		Half / Full Duplex		
Trunked Mode (TMO) Services	Telephony		Full Duplex		
	(PABX, PSTN, MS-ISDN)		<u> </u>		
	DGNA Scanning	A++aal	Up to 10,000 groups	ant/detachment	
	Scalling	Attachment signalling, supports SWMI initiated attachment/detachment Group call			
Direct Mode (DMO) Services			Private call		
	Tactical		Emergency Group Call to ATTACHED talkgrou	лр	
	Non-Tactical		Emergency Group Call to DEDICATED talkgro		
	Individual		Emergency Call to PREDEFINED party (half/full d		
mergency (tailored by users)	Smart emergency		TMO/DMO/DMO to TMO automatic switching o		
	Hot Mic Location	(onfigurable timers for automatic open mic (talk wit Location (GPS) sent with emergency	uiout FTT)	
	Target Address		Sent to individual or group address (selected or de	dicated)	
	Alarm (status message)	Emergency Status (or other pre-defined status)			
DATA SERVICES					
	Alias messages		400 Entries		
Status	Options		Can be sent via One-Touch or via menu		
	Inbox	200 Entries	(short messages), 40 Entries (long messages of up	to 1000 characters)	
Short Data Service (SDS)	T		Cellular style iTAP predictive text entry	P. A. B.	
,	Target Address		Sent to individual or group address (selected or dec		
	Voice Call Interaction Multi-slot PD		SDS messages can be sent and received during a vor ransmission with up to 4 slots supporting up to 28.		
acket Data (PD)	TETRA Enhanced Data Service			•	
	(TEDS) (via software upgrade)		d 50kHz channel bandwidths and enabling practical	<u> </u>	
			AM Channels: 25 kHz and 50 kHz (but not D8PSK c	hannels)	
EDS (capable)		4	QAM modulation/coding modes: QAM R1/2, 16-QAM R1/2, 64-QAM R1/2, and 64-Q	IAM R2/3	
	Integrated WAP browser		Integrated Openwave browser		
WAP	Integrated WAP browser (including WAP-PUSH)			0	
			WAP 1.2.x and WAP 2.0 compatibility for UDP/IP		
Perinheral Equipment Interface	(PFI) Interface Protocol	AT Commands - Full Set ETSI Mandatory Compliant AT Multiplexer - 4 Virtual Physical Port (simultaneous PD, SDS, AT commands and Air Tracer SESSIONS)			
Peripheral Equipment Interface (PEI) Interface Protocol		AT Multiplexer - 4 Virtual Physical Port (simultaneous PD, SDS, AT commands and Air Tracer SESSIUNS) TNP1; enables simultaneous PD and SDS sessions			
		Programmable via Motorola Integrated Terminal Management (iTM) solution			
erminal Management		Program	nable via Motorola Integrated Terminal Manageme	nt (iTM) solution	

^{*} Future software release

MTM5000 SERIES SPECIFICATIONS

GATEWAY SERVICES				
	MTM5200	MTM5400	MTM5500	
	N.A.	Group voice calls from DMO to TMO		
	N.A.	Group voice calls from TMO to DMO		
	N.A.	Emergency group call from DMO to TMO		
	N.A.	Emergency group call from TMO to DMO		
DMO/TMO C-+	N.A.	Call Pre-emption (in either direction)		
DMO/TMO Gateway	N.A.	SDS messaging from DMO to TMO (including GPS) or from TMO to DMO*		
	N.A.	Configurable routing of SDS messages to console or PEI*		
	N.A.	Intelligent handling of point to point calls and S	SDS messages whilst operating as a Gateway*	

REPEATER SERVICES				
		N.A.	Repeats DMO voice calls on selected talkgroup	
		N.A.	Repeats SDS and Status messaging on selected talkgroup*	
		N.A.	ETSI type 1A DMO Repeater for channel efficient operation	
		N.A.	Transmission of Repeater Presence Signal	
DMO Repeater		N.A.	Priority Call	
		N.A.	Emergency Call (Pre-emptive Priority Call)	
			E2EE Encrypted DMO traffic	
		N.A.	Monitoring of and participation in calls whilst in Repeater mode	
		N.A.	Configurable Repeater Power Levels	
INTERFACES				
RS232		Four Virtual Ports via AT Multiplexer e	enable PC applications to run simultaneously Packet Data, AT Commands, SDS, SCOUT	
USB		USB 2.0 support for PEI (Two Virtual Ports via standard Windows drivers enable PC applications to run simultaneously Packet Data and AT Commands)		
		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)		GCAI - Motorola accessory and ancillary interface for connection of accessories, data terminals and programming		
Conoral Durages Input/Output	Digital I/O	7 (4 on remote and motorcycle control head, 3 on transceiver)		
General Purpose Input/Output	Analog input	4 (1 on remote and motorcycle control head, with 4 levels)		

thms ity Classes ntication	TEA1, TEA2, TEA3 Class 1 (Clear), Class 2 (SCK), Class 3G
1	
ntication	
	Infrastructure initiated and made mutual by terminal
	Secure provisioning tool via Key Variable Loader (KVL)
	PIN/PUK code access
e Profile Selection for Radio Assignment / Radio User Identity RUI) Operation	Based on login credentials, a radio user can be limited to only those radio capabilities defined in pre-installed service profiles, selected by the infrastructure
	Packet Data user authentication
E2EE	Enhanced End to End Encryption with OTAR supported through
t Data E2EE	Universal Crypto Module (UCM) and SIM (via integrated card slot) and or
Data (SDS) E2EE	Cryptr 2 Broadband IP unit.
RL E2	signment / Radio User Identity JI) Operation 2EE Data E2EE

REGULATORY COMPLIANCE	
	EN 303 035-1
Radio (R&TTE Article 3.2)	EN 303 035-2
ndulu (natte Atticle 3.2)	ETSI EN 300-394-1
	ETSI EN 300-392-2
EMC (R&TTE Article 3.1.b)	EN 301 489-1 V1.3.1
	EN 301 489-18 V1.3.1
Floatrical Cafaty (DOTTE Article 2.1 a)	EN 60950-1 (2001)
Electrical Safety (R&TTE Article 3.1.a)	EN50360:2001 EME
Environmental	Directive 2002/96/EC WEEE
Environmental	EN50155:2007 (IEC 60571 ED. 3.0)
Automotive	E-mark, Automotive EMC Directive 95/54/EC
Rail Certification EMC	EN50121-3-2:2006 (IEC 62236-3-2 Ed.2.0)

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^{*} Future software release



For more information on the MTM5000 Series radios, please visit us on the web at: www.motorolasolutions.com/MTM5000

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