

MTM5000 SERIES TETRA TWO-WAY MOBILE RADIO

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

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

MTM5000 SERIES BENEFITS

- Extended Operational Range
- Superior Audio Performance
- Low User Migration Costs
- Enhanced End-to-End Encryption Options
- Location Services
- Advanced Terminal Management
- Flexible Installation Options
- Rugged Design with Exceptional Reliability





MTM5000 SERIES SPECIFICATIONS







			MTM5200			MTM5400			MTM5500	
MODELS - COM	1PLIANT WITH DIN 75	490 (ISO 7736)								
Dash					st vehicle installation	1			N.A.	
Desk		Compact radio, for use in the office. Optional range of accessories such as desk tray with integrated loudspeaker					N.A.			
		Орг	onarrange or acces	N.		атса тойизрейког		Radio with multiple remote mount control		t control
Multiple Remote Control Head				IV.	A.			head capability		
		N.A.					Range of installation options enable use in cars vans and other vehicles		use in cars,	
Multiple Transceiver or Control Head		N.A. Radio with multiple remote					Range of installation optionsenable use in cars,			
<u> </u>			Environmentally	enhanced rac	lio meeting IP67 spec	ontrol head capabili cification	ty	vans	andother vehicles	
Motorcycle		Suitable for	demanding environm	ents such as m	otorcycle, fire appliand	ce and marine installa			N.A.	
Expansion head "Data	box"		Radi	io without a co	ntrol head, for data	applications, or cust	tomised appli	cation development		
GENERAL			D: :	M/ : 1 .		D: : !!	147 : 1 :		B: : !!	M : 1 :
		MTM5200	Dimensions H x W x D (mm)	Weight Typical (g)	MTM5400	Dimensions H x W x D (mm)	Weight Typical (g)	MTM5500	Dimensions H x W x D (mm)	Weight Typical (g)
	Transceiver & Control Headhead)		60 x 188 x 198	1,500	16 18	60 x 188 x 198	1,500		N.A.	
Dash / Desk Mount	,									
Daoiry Dook Would		TAREE.	60 x 188 x 31	230		60 x 188 x 31	230			
	Dash / Desk Control Head							N.A.		
	Transceiver & Expansion		45 x 170 x 185	1117		45 x 170 x 185	1117	Control of the Contro	45 x 170 x 196	1330
	Head		45 X 170 X 165	1117	(9	45 X 170 X 165	1117		45 X 170 X 150	1330
	Remote Control Head		60 x 188 x 39	300		60 x 188 x 39	300	10 HALL	60 x 188 x 39	330
D . M .										
Remote Mount		FOR								
	IP67 Control Head		60 x 188 x 39	320		60 x 188 x 39	320		N.A.	
	Telephone Style									450
	Control Head		N.A.			N.A.			220 x 65 x 75	(excluding cable)
							1			Cabicy
Databox	Transceiver & Expansion	135	45 x 170 x 194	1201	A STATE OF THE PARTY OF THE PAR	45 x 170 x 194	1201		45 x 170 x 196	1330
Databux	Head	TO COL	45 X 170 X 154	1201	TO COL	43 X 170 X 134	1201	[0 0 0C	45 X 170 X 150	1330
USER INTERFA	CE & DISPLAY									
	Diagonal dimension					2.8"				
Display	Туре	VGA - 640x480 pixels, 65,000 colours								
Біоріцу	Backlight	Variable backlight, User configurable Standard & Zoom mode (90 pixels, 4.5mm high) characters								
TSCH	Font sizes			N.		e (90 pixels, 4.5mm	high) charact		ailable as option	
13011	Numeric					vpad of 12 kevs, wit	h kevpad lock		anable as option	
	International keypad versions ¹	Integral backlit numeric keypad of 12 keys, with keypad lock option Roman, Arabic, Cyrillic, Korean, Chinese, Taiwanese characters								
Duttono 9 Vouned	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								
Indication	LED Tones	Tri-colour LED Configurable potification tones								
		Configurable notification tones Arabic, Chinese Simplified, Chinese Traditional, Croatian, Danish, Dutch, English, French, German, Greek, Hebrew, Hungarian, Italian, Korean, Lithuanian,								
User Interface Languages	Standard Options	Macedonian, Mongolian, Norwegian, Portuguese, Russian, Spanish, Swedish								
Languages	User defined	User programmable, using ISO 8859-1 character								
Menu		Tailored to user needs Menu Shortcuts								
IVICIIU		Menu Shortcuts Menu Configuration								
Contacts Managemen	t					Cellular Type				
Contact List						to 1,000 contacts er contact, Max 2,0	00 numboro			
Multiple Dialling Metl	hods					selects how to dial	oo numbers			
Fast/Flexible Call Res				Pr	ivate Call Response t		ne Touch But	ton		
Multiple Ring Tones		Configurable with CPS								
Message Manager						Cellular Type				
Text message list		20 All Control Hondo								
Intelligent Keypad Text Input		All Control Heads								
Status list Country/Network Code List		400								
Scan lists		40 lists of 20 groups								
Discrete Mode					Al	l Control Heads				
Screen Saver						text (any user's sele	ection)			
Universal Time Display Keypad Lock		All Control Heads All Control Heads								
						er structure (folder/s	subfolder)			
Talkgroup Folders						256 folders				
Favourite Folders					Up to 3 (to sto	ore any favourite tal	kgroup)			

 $^{^{\}rm 1}\,{\rm For\,availability\,of\,other\,language\,keypads\,please\,contact\,your\,local\,Motorola\,Solutions\,representative}$

MTM5000 SERIES SPECIFICATIONS

		MTM5200	MTM5400		MTM5500			
LECTRICAL SP	ECIFICATIONS							
/oltage Range			10.8 to 15.6 V DC					
	Idle / Rx / Tx @ 10W	N.A.		/ 1.0 / 1.2 (TX 3.4A Peak	()			
Current Consumption	Idle / Rx / Tx @ 3W	0.5 / 1.0 / .9 (TX 2.2A Peak)						
٠. 4, typ.)	Tx - Multi Slot PD (4 slots) @ 5.6W	N.A. (3W only) 2.7						
	Using USB host	Adds 0.5A						
RF SPECIFICATI			71000 0:071					
			050 000 000 400 440 470 000	070				
requency Bands (MHz		ALA (0)A/ L)	350 - 390, 380 - 430, 410 - 470, 806 -		0)			
ransmitter RF Power	TETRA Release 1 6 Power Step Levels	N.A. (3W only) 10W (Class 2) and 3W (Class 3)						
RF Power Control	(steps of 5 dBm)	Starting at 15 dBm; finishing at 40 dBm						
Receiver Class	(stope of o dam)		A & B					
Receiver Static Sensitiv	vity (dBm)		-114 minimum, -116 typical (ETSI 300-	392-2)				
Receiver Dynamic Sens	sitivity (dBm)		-105 minimum, -107 typical (ETSI 300-	392-2)				
GNSS SPECIFIC	ATIONS							
Simultaneous Satellite			GPS plus one other GNSS, eg GLONASS	. BeiDou				
Mode of Operation	7,515.115		Concurrent tracking, SBAS capable, 72					
SNSS Antenna		Supports active antenna (5V, 25mA supply)						
Acquisition Sensitivity		-145 dBm (guaranteed); -146 dBm (typical)						
Fracking Sensitivity			-162 dBm (guaranteed); -163 dBm (ty)	pical)				
Horizontal Accuracy, 20	D		5m (95% probable) @ -130dBm					
ocation Protocols			ETSI Location Information Protocol (LIP)				
.00011011110100018			Motorola LRRP					
NVIRONMENT	TAL SPECIFICATIONS							
Operating Temperature			-30 to +60					
Storage Temperature (°			-40 to +85					
Not in use - Storage	ETSI 300 019-1-1 CLASS 1.3		Non-Weather Protected Storage Loca	ations				
Not in use -			Ü					
Fransportation	ETSI 300 019-1-2 CLASS 2.3		Public Transportation					
Stationary use -								
Neather Protected	ETSI 300 019-1-3 CLASS 3.2		Partly Temperature Controlled Locat	ions				
Locations								
Mobile use - Ground Vehicle	ETSI 300 019-1-5 CLASS 5.2		Climatic Tests					
nstallation	o. ooo oto t o olnoo o.2	Cilliduc lests						
Mobile use -								
Ground Vehicle	ETSI 300 019-1-5 CLASS 5M3	Mechanical Tests						
nstallation								
Rail Certification Environmental	EN50155:2007 and IEC60571 ED.3.0		Environmental					
MIL STD	810 C/D/E/F/G Specifications		All 11 categories met (or exceede	d)				
	010 0/D/L/1/d opcomodions							
Dust and Water	IP54 (dust cat 2)		Dash/Desk/Remote models					
Dust and Water Ingress Protection	IP54 (dust cat. 2) IP67	Motorcycle model (only contro	Dash/Desk/Remote models head is IP67; transceiver is IP54)		MTM5500 TSCH IP55			
ngress Protection	IP67	Motorcycle model (only contro			MTM5500 TSCH IP55			
ngress Protection VOICE SERVICE	IP67	Motorcycle model (only contro	head is IP67; transceiver is IP54)		MTM5500 TSCH IP55			
ngress Protection VOICE SERVICE Talkgroups	IP67		head is IP67; transceiver is IP54) 10,000 TMO, 2,000 DMO		MTM5500 TSCH IP55			
Ingress Protection VOICE SERVICE Talkgroups Phone book entries	IP67		head is IP67; transceiver is IP54) 10,000 TM0, 2,000 DM0 1s. Up to 6 numbers per entry (mobile, office		MTM5500 TSCH IP55			
ngress Protection VOICE SERVICE Falkgroups	IP67		head is IP67; transceiver is IP54) 10,000 TMO, 2,000 DMO	etc). Max 2,000 entries	MTM5500 TSCH IP55			
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ngress Protection /OICE SERVICE falkgroups Phone book entries Scan lists frunked Mode (TMO) Services	Group call Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning	1,000 perso	head is IP67; transceiver is IP54) 10,000 TM0, 2,000 DM0 as. Up to 6 numbers per entry (mobile, office 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex Full Duplex Up to 10,000 groups	e etc). Max 2,000 entries	MTM5500 TSCH IP55			
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ngress Protection /OICE SERVICE falkgroups Phone book entries Scan lists frunked Mode (TMO) Services Direct Mode (DMO) Se	Group call Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning rvices Tactical Non-Tactical Individual	1,000 perso	head is IP67; transceiver is IP54) 10,000 TM0, 2,000 DM0 as. Up to 6 numbers per entry (mobile, office 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex Full Duplex Up to 10,000 groups ent signalling, supports SWMI initiated atta Group call Emergency Group Call to ATTACHED tal Emergency Group Call to DEDICATED ta Emergency Call to PREDEFINED party (half/	e etc). Max 2,000 entries chment/detachment lkgroup lkgroup full duplex)	MTM5500 TSCH IP55			
ngress Protection VOICE SERVICE Falkgroups Phone book entries Frunked Mode (TMO) Services Direct Mode (DMO) Se	Group call Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning rvices Tactical Non-Tactical Individual Smart emergency	1,000 perso	head is IP67; transceiver is IP54) 10,000 TM0, 2,000 DM0 as. Up to 6 numbers per entry (mobile, office 40 lists of 20 talkgroups Late Entry, TMO/DMO Mapping Half / Full Duplex Full Duplex Up to 10,000 groups ent signalling, supports SWMI initiated atta Group call Private call Emergency Group Call to ATTACHED tal Emergency Group Call to DEDICATED ta Emergency Call to PREDEFINED party (half/	e etc). Max 2,000 entries chment/detachment lkgroup lkgroup full duplex) itching options	MTM5500 TSCH IP55			
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ngress Protection VOICE SERVICE Falkgroups Phone book entries Frunked Mode (TMO) Services Direct Mode (DMO) Se	Group call Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning rvices Tactical Non-Tactical Individual Smart emergency Hot Mic Location	Attachn TT	head is IP67; transceiver is IP54) 10,000 TM0, 2,000 DM0 Ins. Up to 6 numbers per entry (mobile, office 40 lists of 20 talkgroups Late Entry, TM0/DM0 Mapping Half / Full Duplex Full Duplex Up to 10,000 groups ent signalling, supports SWMI initiated atta Group call Private call Emergency Group Call to ATTACHED tal Emergency Group Call to DEDICATED ta Emergency Call to PEDEFINED party (half/ 10 to DM0 and DM0 to TM0 automatic swin figurable timers for automatic open mic (tal Location (GPS) sent with emergen	etc). Max 2,000 entries chment/detachment lkgroup full duplex) tiching options lk without PTT) cy	MTM5500 TSCH IP55			
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ngress Protection VOICE SERVICE Falkgroups Phone book entries Scan lists Frunked Mode (TMO) Services Direct Mode (DMO) Se Emergency (tailored by users) DATA SERVICES Status Short Data Service SDS) WAP	Group call Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning rvices 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 Integrated WAP browser	Attachn Ti Co	10,000 TMO, 2,000 DMO 10,000 TMO, 2,000 DMO 10.000 TMO, 2000 DMO 10.000 Mapping 10.000 Groups 10.000 Gro	cetc). Max 2,000 entries chment/detachment lkgroup lkgroup full duplex) ttching options lk without PTT) cy or dedicated) status) enu s) ssages)² sages)² status) enu try or dedicated) ng a voice call to 28.8 kbit/s gross DP/IP Stack Compliant				
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² Long messages of up to 1,000 characters

MTM5000 SERIES SPECIFICATIONS

		MTM5200	MTM5400	MTM5500			
GATEWAY SERV	ICES						
		N.A.	Group voice calls from DMO to TMO				
DMO/TMO Gateway		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				
		N.A.	Call Pre-emption (in either direction)				
		N.A.	• •				
		N.A. Configurable routing of SDS messages to console or PEI ³					
		N.A. Point to point calls and SDS messages whilst operating as a Gateway					
REPEATER SERV	ICES			ger timer speciming or a colorie,			
ILI LATERI OLIV	TOLO	N. A	December DMO veries and	le en entententententen			
		N.A. N.A.	Repeats DMO voice calls on selected talkgroup Repeats SDS and Status messaging on selected talkgroup				
		N.A.					
			ETSI type 1A DMO Repeater for channel efficient operation				
MA Papastar		N.A. N.A.	Transmission of Repeater Presence Signal				
OMO Repeater			Priority Call				
		N.A.	Emergency Call (Pre-emptive Priority Call)				
		N.A.	E2EE Encrypted DMO traffic				
		N.A.		in calls whilst in Repeater mode			
		N.A.	Configurable Repeater Power Levels				
NTERFACES							
RS232			er enable PC applications to run simultaneously Packet				
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 supp	oort (Host Mode) to manage USB Slave Devices (e.g. SIM C	ARD READER)			
Rugged Accessory Connector (GCAI)		GCAI - Motorola accessory and ancillary interface for connection of accessories, data terminals and programming					
	Digital I/O	7 (4 on remote and motorcycle control head, 3 on transceiver)					
General Purpose Digital I/U		4 (1 on remote and motorcycle control head, with 4 levels)					
		-	11 on romoto and motorcycle control nead, With 4 leve				
SECURITY FEAT			TEAA TEA				
Air Interface	Algorithms	TEA1, TEA2, TEA3					
ncryption	Security Classes	Class 1 (Clear), Class 2 (SCK), Class 3G					
	Authentication	Infrastructure initiated and made mutual by terminal					
Provisioning		Secure provisioning tool via Key Variable Loader (KVL)					
	0 : 0 : 0 :		PIN/PUK code access				
User Access Control	Service Profile Selection for Radio User Assignment / Radio User Identity (RUA/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					
Data		Packet Data user authentication					
ind to End Engagetics	Voice E2EE	Enhanced End-to-End Encryption with OTAR supported through Universal Crypto Module (UCM) and SIM (via integrated card slot) and or					
End to End Encryption E2EE)	Packet Data E2EE						
	Short Data (SDS) E2EE	Cryptr 2 Broadband IP unit.					
2EE with SIM Card	Internal SIM Card	Slotted into SIM Card slot on the transceiver					
External SIM Card		Via External SIM Card Reader connected to rear accessory connector on transceivers or to RJ50 Data port on MTM5500 transceiver					
REGULATORY CO	OMPLIANCE						
ladio (RED Article 3.2)			EN 302 561				
EMC (R&TTE Article 3.1.b)		EN 301 489-1					
		EN 301 489-18 EN 60060 1					
Electrical Safety (R&TT	E Article 3.1.a)	EN 60950-1					
		EN50360 EME					
Environmental		WEEE Directive					
Automotivo		EN50155 (IEC 60571 ED. 3.0)					
Automotive		E-mark, ECE Regulation No.10 for Electrical/Electronic-Subassembly					
Rail Certification EMC			EN50121-3-2 (IEC 62236-3-2 Ed.2.0)				

³ Future software release

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

Specifications are subject to change without notice.

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