

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		Onti			r use in the office. desk tray with integr	atod loudenoakor		N.A.		
		Ори	onal range of acces	N.		атса тойизрейког		Radio with multiple remote mount 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 o	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 o	demanding environm	ents such as m	otorcycle, fire appliand	ce and marine installa			N.A.	
Expansion head "Data	box"		Radi	o without a co	ntrol head, for data	applications, or cust	omised applic	ation development		
GENERAL			D: :	147 : 1 .		D: : !!	144 : 1 :		D:	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	1,300		N.A.	
Dash / Desk Mount	,									
Dadii / Deak Would	Dash / Desk Control Head	FASS	60 x 188 x 31	230		60 x 188 x 31	1,070			
								N.A.		
										T
	Transceiver & Expansion		45 x 170 x 185	1117		45 x 170 x 185	230	San	45 x 170 x 196	1330
	Head	(9)	45 X 170 X 165	1117	(9)	45 X 170 X 165	230		45 X 170 X 150	1330
	Remote Control Head		60 x 188 x 39	300		60 x 188 x 39	300	10 - 18	60 x 188 x 39	330
D . M .										
Remote Mount		Por								
	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.		Made 15	220 x 65 x 75	(excluding cable)
										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	No.	45 x 170 x 196	1330
Databux	Head	1000	45 X 170 X 154	1201	TO COL	43 X 170 X 134	1201		45 X 170 X 150	1330
USER INTERFA	CE & DISPLAY									
	Diagonal dimension					2.8"				
Display	Туре	VGA - 640x480 pixels, 65,000 colours								
Біоріаў	Backlight	Variable backlight, User configurable Standard & Zoom mode (90 pixels, 4.5mm high) characters								
TSCH	Font sizes			St N.		e (90 pixels, 4.5mm	high) charact		nilable as option	
13011	Numeric					vpad of 12 kevs, wit	h kevpad lock		iliable 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 Vounad	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 notification tones Arabic, Chinese Simplified, Chinese Traditional, Croatian, Danish, Dutch, English, French, German, Greek, Hebrew, Hungarian, Italian, Korean, Lithuanian,							thuanian	
User Interface Languages	Standard Options	Macedonian, Mongolian, Norwegian, Portuguese, Russian, Spanish, Swedish								
	User defined	User programmable, using ISO 8859-1 character								
Monu		Tailored to user needs								
Menu		Menu Shortcuts Menu Configuration								
Contacts Managemen	t					Cellular Type				
Contact List						to 1,000 contacts	00			
Multiple Dialling Meth	hnds					er contact, Max 2,0 selects how to dial	uu numbers			
Fast/Flexible Call Resp				Pr	ivate Call Response t		ne Touch But	ton		
Multiple Ring Tones		Configurable with CPS								
Message Manager		Cellular Type								
Text message list		20								
Intelligent Keypad Text Input		All Control Heads								
Status list Country/Network Code List		400								
Country/Network Code List Scan lists					40 1	ists of 20 groups				
Discrete Mode					Al	l Control Heads				
Screen Saver						text (any user's sele	ction)			
Universal Time Display		All Control Heads All Control Heads								
Keypad Lock						r structure (folder/s	ubfolder)			
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 -								
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	Cillidate tests						
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 VOICE SERVICE Talkgroups Phone book entries Scan lists	Group call Private call		head is IP67; transceiver is IP54) 10,000 TM0, 2,000 DM0 1s. Up to 6 numbers per entry (mobile, office 40 lists of 20 talkgroups Late Entry, TM0/DM0 Mapping Half / Full Duplex	etc). Max 2,000 entries	MTM5500 TSCH IP55			
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ngress Protection VOICE SERVICE Talkgroups Phone book entries Scan lists Trunked Mode (TMO)	Group call Private call Telephony		head is IP67; transceiver is IP54) 10,000 TM0, 2,000 DM0 1s. Up to 6 numbers per entry (mobile, office 40 lists of 20 talkgroups Late Entry, TM0/DM0 Mapping Half / Full Duplex	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	Group call Private call Telephony (PABX, PSTN, MS-ISDN) DGNA Scanning rvices Tactical	1,000 perso	head is IP67; transceiver is IP54) 10,000 TM0, 2,000 DM0 15. 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	e etc). Max 2,000 entries	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				
runked Mode (TMO) Services Con lists Con l	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	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 Group Call to DEDICATED ta Emergency Gall to PREDEFINED party (half/ 10 to DMO and DMO to TMO automatic swi figurable timers for automatic open mic (ta Location (GPS) sent with emergen ent to individual or group address (selected Emergency Status (or other pre-defined 400 Entries Can be sent via One-Touch or via m Up to 200 Entries for Outbox (long mess At least 10 Entries for Inbox (long mess Cellular style iTAP predictive text er ent to individual or group address (selected DS messages can be sent and received durir ansmission with up to 4 slots supporting up Integrated Openwave browser WAP 1.2.x and WAP 2.0 compatibility for UI AT Commands - Full Set ETSI Mandatory (II Physical Port (simultaneous PD, SDS, AT of	cetc). Max 2,000 entries chment/detachment lkgroup lkgroup ffull duplex) tetching options lk without PTT) cy or dedicated) status) enu s) ssages)² sages)² trty or dedicated) ng a voice call to 28.8 kbit/s gross DP/IP Stack Compliant ommands and Air Tracer				
Ingress Protection VOICE SERVICE Falkgroups Phone book entries Frunked Mode (TMO) Fervices Frunked Mode (DMO) Se Forest Mode	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-PUSH) Interface Protocol	Attachn TI Co S AT Multiplexer - 4 Virtu	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 lkgroup full duplex) itching options lk without PTT) cy or dedicated) status) enu s) ssages)² sages)² ntry or dedicated) g a voice call to 28.8 kbit/s gross DP/IP Stack Compliant ommands and Air Tracer sessions				

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				
		N.A.	Group voice calls from TMO to DMO					
DMO/TMO Gateway		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. SDS messaging through the gateway from DM0 to TM0 or TM0 to DM0					
		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 Emergency Call (Pre-emptive Priority Call)					
		N.A.						
		N.A.	E2EE Encrypted DMO traffic					
		N.A.		in calls whilst in Repeater mode				
NITEDEAGEO		N.A.	Configurable Repe	eater 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 Conr	nector (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 nput/Output	Analog input		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						
End to End Encryption E2EE)	Packet Data E2EE	Universal Crypto Module (UCM) and SIM (via integrated card slot) and or Cryptr 2 Broadband IP unit.						
	Short Data (SDS) E2EE							
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						
2.22.22. 00.00, (1.00.1.27.0000.1.0)		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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