

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





			MTM5400			MTM5500				
	MODELS - COMPLIA	ANT WITH DIN 75	490 (ISO 7736)							
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		Radio with multiple remote mount control head capability Environmentally enhanced radio meeting IP67 specification			Range of installation optionsenable use in cars, vans andother vehicles					
Motorcycle		Suitable for demanding environments such as motorcycle, fire appliance and marine installations			N.A.					
Expansion head "Data	Bbox" GENERAL		Radio without a contr	ol head, for data applica	ations, or customised app	lication development				
	GENEKAL	A ATA AT A OO	D: : II W D/)	M(:1.T : 1/)	A ATA AFFOO	D: : II W D/)	M . L. T			
		MTM5400	Dimensions H x W x D (mm)	Weight Typical (g)	MTM5500	Dimensions H x W x D (mm)	Weight Typical (g			
Dash / Desk Mount	Transceiver & Control Head		60 x 188 x 198	1,500		N.A.				
	Dash / Desk Control Head		60 x 188 x 31	230		N.A.				
Remote Mount	Transceiver & Expansion Head		45 x 170 x 185	1117		45 x 170 x 196	1330			
	Remote Control Head		60 x 188 x 39	300	S I CAR	60 x 188 x 39	330			
	IP67 Control Head		60 x 188 x 39	320		N.A.				
	Telephone Style Control Head		N.A.			220 x 65 x 75	450 (excluding cable)			
Databox	Transceiver & Expansion Head	TOCOC	45 x 170 x 194	1201		45 x 170 x 196	1330			
USER INTERFA	CE & DISPLAY									
	Diagonal dimension	2.8"								
Display	Туре	VGA - 640x480 pixels, 65,000 colours Variable backlight, User configurable								
' '	Backlight			Standard & Zoom mode (90 pixels, 4.5mm high) characters						
. ,	Backlight Font sizes					cters				
	Font sizes		N.A.	lard & Zoom mode (90 p	oixels, 4.5mm high) chara	Available as option				
	Font sizes Numeric		N.A. Integral b	lard & Zoom mode (90 p	oixels, 4.5mm high) chara f 12 keys, with keypad lo	Available as option ck option				
	Numeric International keypad versions¹		N.A. Integral b	lard & Zoom mode (90 p	oixels, 4.5mm high) chara	Available as option ck option				
rsch	Font sizes Numeric International keypad versions! Programmable function		N.A. Integral b Roman	lard & Zoom mode (90 p acklit numeric keypad o , Arabic, Cyrillic, Korean,	oixels, 4.5mm high) chara f 12 keys, with keypad lo	Available as option ck option acters				
TSCH TSCH	Numeric International keypad versions¹		N.A. Integral b Roman	lard & Zoom mode (90 p acklit numeric keypad o n, Arabic, Cyrillic, Korean, mable function keys (plu	ixels, 4.5mm high) chara f 12 keys, with keypad lo Chinese, Taiwanese char	Available as option ck option acters				
TSCH TSCH	Font sizes Numeric International keypad versions¹ Programmable function keys Navigation Emergency		N.A. Integral b Roman 3 program	lard & Zoom mode (90 p acklit numeric keypad o , Arabic, Cyrillic, Korean, mable function keys (plu 4-way navigation key Emergency butter	ixels, 4.5mm high) chara f 12 keys, with keypad lo Chinese, Taiwanese char us 10 programmable num y, menu and soft keys on with backlight	Available as option ck option acters eric keys)				
SCH Buttons & Keypad	Font sizes Numeric International keypad versions¹ Programmable function keys Navigation Emergency Shortcuts		N.A. Integral b Roman 3 program	lard & Zoom mode (90 p acklit numeric keypad o , Arabic, Cyrillic, Korean, mable function keys (plu 4-way navigation key Emergency butto cuts to menus and com	ixels, 4.5mm high) chara f 12 keys, with keypad lo Chinese, Taiwanese char us 10 programmable num y, menu and soft keys on with backlight mon features using "One	Available as option ck option acters eric keys)				
Suttons & Keypad	Font sizes Numeric International keypad versions¹ Programmable function keys Navigation Emergency Shortcuts Dual Function		N.A. Integral b Roman 3 program	lard & Zoom mode (90 p acklit numeric keypad o , Arabic, Cyrillic, Korean, mable function keys (plu 4-way navigation key Emergency buttle cuts to menus and com Talkgroup and volume	ixels, 4.5mm high) chara f 12 keys, with keypad lo Chinese, Taiwanese char us 10 programmable num y, menu and soft keys on with backlight mon features using "One change with lock option	Available as option ck option acters eric keys)				
Suttons & Keypad	Font sizes Numeric International keypad versions¹ Programmable function keys Navigation Emergency Shortcuts Dual Function LED		N.A. Integral b Roman 3 program	lard & Zoom mode (90 p acklit numeric keypad o , Arabic, Cyrillic, Korean, mable function keys (plu 4-way navigation ker Emergency butto cuts to menus and comu Talkgroup and volume o Tri-cole	pixels, 4.5mm high) chara f 12 keys, with keypad lo Chinese, Taiwanese char us 10 programmable num y, menu and soft keys on with backlight mon features using "One change with lock option our LED	Available as option ck option acters eric keys)				
Suttons & Keypad Rotary Indication User Interface	Font sizes Numeric International keypad versions! Programmable function keys Navigation Emergency Shortcuts Dual Function LED Tones Standard Options	Arabic, Chinese Simp	N.A. Integral b Roman 3 program User configurable short lified, Chinese Traditional, Croa	lard & Zoom mode (90 p acklit numeric keypad o , Arabic, Cyrillic, Korean, mable function keys (pli 4-way navigation ket Emergency buttc cuts to menus and com Tri-colt Configurable no tian, Danish, Dutch, Eng Aongolian, Norvegian, I	ixels, 4.5mm high) chara f 12 keys, with keypad lo Chinese, Taiwanese char us 10 programmable num y, menu and soft keys on with backlight mon features using "One change with lock option our LED otification tones llish, French, German, Gr Portuguese, Russian, Spa	Available as option ck option acters eric keys) -Touch-Button" feature	, Korean, Lithuanian,			
Buttons & Keypad Rotary Indication Jser Interface Languages	Font sizes Numeric International keypad versions¹ Programmable function keys Navigation Emergency Shortcuts Dual Function LED Tones	Arabic, Chinese Simp	N.A. Integral b Roman 3 program User configurable short lified, Chinese Traditional, Croa	lard & Zoom mode (90 p acklit numeric keypad o packlit numeric keypad o packlit, Cyrillic, Korean, mable function keys (plu 4-way navigation key Emergency buttr cuts to menus and com Tri-cole Configurable nu tian, Danish, Dutch, Eng dongolian, Norwegian, l User programmable, usi Tailored to Menu S	ixels, 4.5mm high) chara f 12 keys, with keypad lo . Chinese, Taiwanese char us 10 programmable num y, menu and soft keys on with backlight mon features using "One- change with lock option but LED butification tones plish, French, German, Gn- Portuguese, Russian, Spa ng ISO 8859-1 character user needs hortcuts	Available as option ck option acters eric keys) -Touch-Button" feature	, Korean, Lithuanian,			
Buttons & Keypad Rotary Indication Jser Interface Languages	Numeric International keypad versions¹ Programmable function keys Navigation Emergency Shortcuts Dual Function LED Tones Standard Options User defined	Arabic, Chinese Simp	N.A. Integral b Roman 3 program User configurable short lified, Chinese Traditional, Croa	lard & Zoom mode (90 p acklit numeric keypad o , Arabic, Cyrillic, Korean, mable function keys (pli 4-way navigation key Emergency butt cuts to menus and com Talkgroup and volume Configurable no tian, Danish, Dutch, Eng Mongolian, Norwegian, User programmable, usi Tailored to Menu S	ixels, 4.5mm high) chara f 12 keys, with keypad lo Chinese, Taiwanese char us 10 programmable num y, menu and soft keys on with backlight mon features using "One- change with lock option out LED otification tones llish, French, German, Gn Portuguese, Russian, Spa ng ISO 8859-1 character user needs hortcuts ofiguration	Available as option ck option acters eric keys) -Touch-Button" feature	, Korean, Lithuanian,			
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 $^{^1\,\}text{For availability of other language keypads please contact your local Motorola Solutions representative}$

MTM5000 SERIES SPECIFICATIONS

		MTM5400	MTM5500			
ELECTRICAL SP	ECIFICATIONS					
Voltage Range		10.8 to 15.	S V DC			
	Idle / Rx / Tx @ 10W	0.5 / 1.0 / 1.2 (TX 3.4A Peak)				
Current Consumption	Idle / Rx / Tx @ 3W	0.5 / 1.0 / .9 (TX	0.5 / 1.0 / .9 (TX 2.2A Peak)			
A, typ.)	Tx - Multi Slot PD (4 slots) @ 5.6W	2.7				
	Using USB host	Adds 0.5A				
RF SPECIFICATION						
requency Bands (MHz)		2E0 200 290 420 4	0 470 900 970			
ransmitter RF Power	TETRA Release 1	350 - 390, 380 - 430, 410 - 470, 806 - 870 10W (Class 2) and 3W (Class 3)				
	6 Power Step Levels					
RF Power Control	(steps of 5 dBm)	Starting at 15 dBm; fir				
Receiver Class		A & B				
leceiver Static Sensitiv		-114 minimum, -116 typi				
eceiver Dynamic Sens		-105 minimum, -107 typi	cal (ETSI 300-392-2)			
INSS SPECIFIC	ATIONS					
	ultaneous Satellite Systems GPS plus one other GNSS, eg GLONASS, BeiDou					
Node of Operation		Concurrent tracking, SBAS				
INSS Antenna		Supports active antenna				
cquisition Sensitivity		-145 dBm (guaranteed);				
racking Sensitivity		-162 dBm (guaranteed);				
orizontal Accuracy, 2D	J	5m (95% probable				
ocation Protocols		ETSI Location Informa				
NIVIDONIMENT	AL CDECUEICATIONS	Motorola	Linir			
	AL SPECIFICATIONS					
perating Temperature		-30 to +				
torage Temperature (°		-40 to +	წ ნ			
Not in use - Storage	ETSI 300 019-1-1 CLASS 1.3	Non-Weather Protected	Storage Locations			
Not in use -	ETSI 300 019-1-2					
ransportation	CLASS 2.3	Public Transp	ortation			
Stationary use -						
Veather Protected	ETSI 300 019-1-3 CLASS 3.2	Partly Temperature Co	ntrolled Locations			
ocations	02 100 0.2					
Mobile use - Bround Vehicle	ETSI 300 019-1-5	Climatic	-contro			
nstallation	CLASS 5.2	Cilliatic	6515			
Nobile use -						
Ground Vehicle	ETSI 300 019-1-5 CLASS	Mechanica	Tests			
nstallation	5M3					
Rail Certification	EN50155:2007 and	Environm	ental			
Environmental	IEC60571 ED.3.0					
MIL STD	810 C/D/E/F/G Specifications	All 11 categories me	et (or exceeded)			
Oust and Water	IP54 (dust cat. 2)	Dash/Desk/Rem	nte models			
ngress Protection	IP67	Motorcycle model (only control head is IP67; transceiver is IP54)	MTM5500 TSCH IP55			
OICE SERVICES	S					
alkgroups		10.000 TMO, 2	NNN DMN			
hone book entries		1,000 persons. Up to 6 numbers per entry				
Scan lists		40 lists of 20 t				
	Group call	Late Entry, TMO/DMO Mapping				
	Private call	Half / Full I	11 0			
runked Mode (TMO)	Telephony	FUD	lov			
Services	(PABX, PSTN, MS-ISDN)	Full Dup	IUA			
	DGNA	Up to 10,000	groups			
	Scanning	Attachment signalling, supports SWM	initiated attachment/detachment			
Direct Mode (DMO) Ser	rvices	Group o				
JOE WOOD (DIVID) 381		Private				
	Tactical	Emergency Group Call to				
	Non-Tactical	Emergency Group Call to	* '			
	Individual	Emergency Call to PREDEFINE				
mergency (tailored	Smart emergency	TM0 to DM0 and DM0 to TM0	0 1			
y users)	Hot Mic	Configurable timers for automatic open mic (talk without PTT)				
	Location	Location (GPS) sent				
	Target Address	Sent to individual or group addr				
ATA OFPINATO	Alarm (status message)	Emergency Status (or other	ar pre-ueillieu status)			
ATA SERVICES						
tatus	Alias messages	400 Ent				
Clatus	Options	Can be sent via One-Touch or via menu				
	Inbox/Outbox	Up to 200 Entries (short messages) At least 20 Entries for Outbox (long messages) ²				
Chart Data Cardes	IIIDUX/ UULDUX					
Short Data Service SDS)	Predictive Text	At least 10 Entries for Inbox (long messages) ² Cellular style iTAP predictive text entry				
J. 31	Target Address	Sent to individual or group address (selected or dedicated)				
	Voice Call Interaction	SDS messages can be sent and				
acket Data (PD)	Multi-slot PD	Data transmission with up to 4 slots s	upporting up to 28.8 kbit/s gross			
	Integrated WAP browser	Integrated Openv				
VAP	(including WAP-PUSH)	WAP 1.2.x and WAP 2.0 comp				
Jorinharal Faul		AT Commands - Full Set ETS				
Peripheral Equipment	Interface Protocol	AT Multiplexer - 4 Virtual Physical Port (simultaneous				
nterface (PEI) erminal Management		TNP1; enables simultaneou Programmable via Motorola Integrated T				

 $^{^{\}rm 2}\, {\rm Long}$ messages of up to 1,000 characters

MTM5000 SERIES SPECIFICATIONS

		MTM5400	MTM5500		
GATEWAY SERV	/ICES				
		Group voice calls from DMO to TMO			
		Group voice calls from TMO to DMO			
		Emergency group call from DMO to TMO			
DMO/TMO Gateway		0 70 1	Emergency group call from TMO to DMO		
DIVIO/ TIVIO dateway		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 ³			
		Point to point calls and SDS message	es whilst operating as a Gateway		
REPEATER SERV	/ICES				
		Repeats DMO voice calls on selected talkgroup			
		Repeats SDS and Status messaging on selected talkgroup			
		ETSI type 1A DMO Repeater for channel efficient operation			
D140 D		Transmission of Repeater Presence Signal			
DM0 Repeater		Priority			
		Emergency Call (Pre-ei			
		E2EE Encrypted Monitoring of and participation in			
		Configurable Repea			
INTERFACES		Configurable nepea	ter Fower Levers		
RS232		Four Virtual Ports via AT Multiplexer enable PC applications to r	TUDOS 200 200 ammenda CDC CCOUT		
nozoz					
		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		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) capabi	lity for intelligent PEI applications		
		USB 1.1 support (Host Mode) to manage USB	3 Slave Devices (e.g. SIM CARD READER)		
Rugged Accessory Con	nector (GCAI)	GCAI - Motorola accessory and ancillary interface for conn	ection of accessories, data terminals and programming		
General Purpose	Digital I/O	7 (4 on remote and motorcycle c	ontrol head, 3 on transceiver)		
Input / Output	Analog input	4 (1 on remote and motorcycle	control head, with 4 levels)		
SECURITY FEAT	URES				
	Algorithms	TEA1, TEA	2, TEA3		
Air Interface	Security Classes	Class 1 (Clear), Class	2 (SCK), Class 3G		
Encryption	Authentication	Infrastructure initiated and	made mutual by terminal		
Provisioning		Secure provisioning tool via	Key Variable Loader (KVL)		
		PIN/PUK coo	de 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		
End to End Encryption (E2EE)	Voice E2EE	Enhanced End-to-End Encryption with OTAR supported through			
	Packet Data E2EE	Universal Crypto Module (UCM) and S Cryptr 2 Broadl			
	Short Data (SDS) E2EE	Стурті 2 втоди	oanu ir unit.		
REGULATORY C					
Radio (RED Article 3.2)		EN 302 561			
EMC (R&TTE Article 3.1.b) Electrical Safety (R&TTE Article 3.1.a)		EN 301 489-1			
		EN 301 489-18 EN 60950-1			
		EN 60950-1 EN 50360 EME			
Environmental		WEEE Directive 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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