



**ENABLING CURRENT AND FUTURE CRITICAL COMMUNICATIONS** 





### DATA IS GROWING IN IMPORTANCE

When it was introduced the dominant use of TETRA was for voice communications, but the use of TETRA as a data bearer has steadily increased. Beginning with the use of status messaging and text, data over TETRA has evolved into the use of picture messaging, WAP, and data-base access. TETRA is also being used for machine to machine communication in industries such as power distribution.

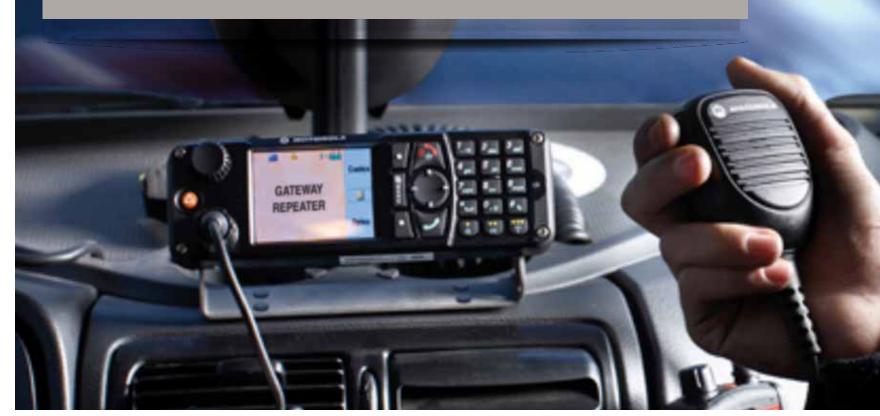
TEDS will enrich the data experience for all types of users. For example data base access will be faster, and additional data can be accessed such as pictures. Uploads can also be enlarged to include fingerprints, pictures and small video clips.

# TRENDS IN TETRA CORE NEEDS

TETRA Systems continue to be deployed in more and more countries supporting Public Safety and Mission Critical operations with secure, reliable, and resilient communications. Motorola has shipped over 2 million TETRA radios to customers around the world.

### Users of TETRA require:

- Rapid and reliable call connections
- Rugged terminals to withstand all weather conditions and rough handling
- Secure communications to prevent unauthorised reception or interception
- Resilient systems to withstand sabotage or natural events, and separation from public systems which become overloaded
- User location for safety and efficiency
- Data services, with a migration path to broadband in the future





# **SOFTWARE FEATURES**TO CUSTOMISE THE MTM5000

The Motorola mobile radio family has been deployed by many public safety and industrial users. Special applications have been developed to meet the particular needs of these customers which are available for all users. These are just some examples.

**Messaging Applications**. Special messaging applications are available to increase the speed of communicating with teams. For example, Disaster Alert which is an emergency pre-emptive priority call made by a user alerting a single pre-defined group to the presence of a disaster such as an earthquake or major accident.

**Resource Allocation**. Call out is an application to determine quickly which mobile units are available to answer a call and to then allocate them to the task

**Optimising the network**. GPS service inevitably uses some data capacity, LIP throttling limits the impact of GPS traffic when the network is congested. Secondary Control Channel (SCCH) will increase capacity for data traffic in a TETRA network by opening a second channel. This will help to speed-up the flow of GPS and SDS traffic. Network access can be adapted for special needs, either by preventing access for unauthrorised users or providing preferential access for special users.

**Security**. End to End encryption can be enabled on either voice or data services. Stun or Kill will temporarily or permanently disable the radio if stolen from or in the vehicle.

**SDS Remote Control**. Enables control of one or more terminals from a workstation and a controlling TETRA Radio Over the Air using the PEI interface. For example a local fire controller using a field PC and a controlling MS can increase or decrease volume of an individual radio, or change talk groups. Or a Dispatcher or controller can directly request GPS position of an officer who is not responding to a call.

# **READY FOR THE FUTURE, THE EVOLUTION OF TETRA AND CRITICAL COMMUNICATIONS**

TETRA has continued to evolve since it's introduction in 1992 and users have been offered a continuous stream of improvements and enhancements which have increased the functionality, reliability, and value of the TETRA network. During this time the data speeds of TETRA have increased with the introduction of Multi-Slot Packet Data. Now with the introduction of TETRA Enhanced Data Service (TEDS) a further significant increase is enabled. This has come at a time when many users are experiencing the benefits of mobile data using public carriers and PDAs and Smartphones. TEDS will support the migration of many applications across to TETRA networks with the attendant benefits of security and resilience.



# MTM5000 SERIES TETRA MOBILE RADIOS

The Motorola MTM5400 Mobile TETRA radio has been joined by two new models to give a choice of specifications to match end user profiles and needs.

## **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 TELEPHONE STYLE CONTROL HEAD

## **FASTER**

- BE READY FOR TEDS FOR FASTER DATA COMMUNICATIONS TO IMPROVE EFFICIENCY AND SAFETY
- LINK TO DATA DEVICES FOR FLEXIBILITY AND POWERFUL APPLICATIONS

#### FOR AREAS WHERE COVERAGE IS RESTRICTED

#### SINGLE CONTROL HEAD INSTALLATION

The **MTM5200** is the base model sharing the enhanced audio and receiver sensitivity of the current MTM5400, as well as being TEDS-ready.

The **MTM5400** includes high power modes and the Gateway Repeater functionality features required by end users in areas of limited coverage.











#### MULTIPLE CONTROL HEAD INSTALLATION



Combining class leading robustness with a sleek ergonomic design, the discreet **Telephone** - **Style Control Head (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.

## 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 user interface as market proven MTM800 Enhanced mobile radios
- Re-use of MTM800 Enhanced accessories using GCAI connector

## ENHANCED END TO END ENCRYPTION OPTIONS

- Integrated hardware for SIM based end to end encryption
- Universal Crypto Module option\*\*

## ADVANCED TERMINAL MANAGEMENT

 USB 2.0 interface for fast radio programming via Motorola's integrated Terminal Management 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

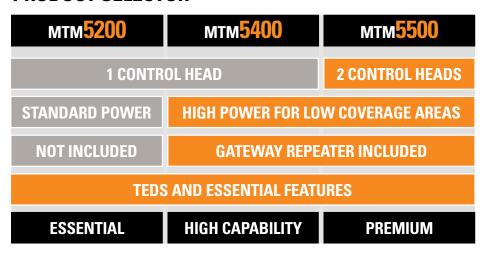
## RUGGED DESIGN WITH EXCEPTIONAL RELIABILITY

- Includes IP67 control head option (MTM5200/5400), 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
- MTM5500 ethernet style connections enable up to 40m separation to either the new eCH Control Head or the Telephone Style Control Head

# MTM5000 SERIES **SOLUTIONS**

The MTM5000 Series brings an ever wider range of installation options to the operator, with multiple control and expansion head options together with the option of multiple control head installation options up to 40m from the radio, with either the new eCH or the TSCH.

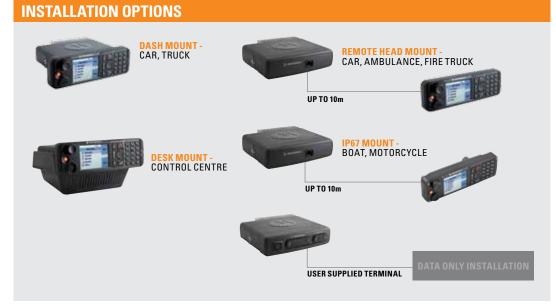
### PRODUCT SELECTOR



### MTM5200 AND MTM5400



CONTROL HEAD



# MTM5000 SERIES **ACCESSORIES**

### MTM5500





FLEXIBLE EXPANSION HEAD (ETHERNET READY) 2X STD ETHERNET TYPE, ETHERNET SIM READER AND RS232

### **CONTROL HEAD OPTIONS**





### **INSTALLATION OPTIONS**

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



TOTAL 80m

**USER SUPPLIED TERMINAL** 





**AUDIO** - VISOR MICROPHONE



**AUDIO** - MOBILE MICROPHONE



**AUDIO** - MOBILE MICROPHONE



**AUDIO** - MOBILE MICROPHONE



AUDIO - MOBILE MICROPHONE



**AUDIO** - MOBILE MICROPHONE



**AUDIO** - LOUDSPEAKER



**MOUNT** - DASH OR FLOOR BRACKET



**ANTENNAS** 



**ANTENNAS** 



**ANTENNAS** 



**ANTENNAS** 



**ANTENNAS** 



CONTROL STATION



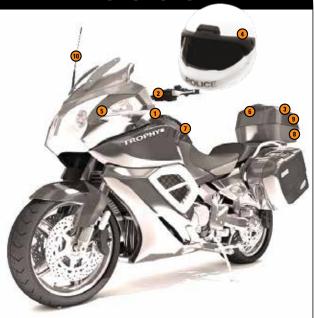
CONTROL STATION POWER SUPPLY



**ALARMS, SWITCHES & CABLES** 

# MTM5000 SERIES INSTALLATION OPTIONS

## **MOTORCYCLE\***



- 1 Remote Mount Fixtures
- 2 Handlebar Controls (PTT Talk Group)
- 3 Headset Interface QD (Quick Disconnect)
- 4 Headset (Helmet)
- 5 Remote Control Head IP67
- 6 Loudspeaker (External or Internal)
- 8 Standard Control Head
- 9 Alternate Microphone (In rear box)
- 10 Antenna and/or GPS Combination

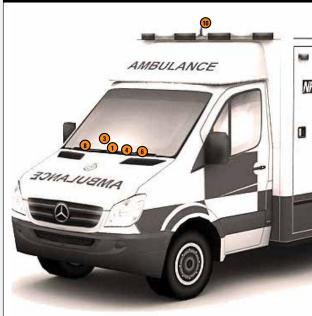
\*For information on Covert Motorcycle Installations please contact your local Motorola representative

## **POLICE CAR**



- 1 Dash or Remote Mount Fixtures
- 2 Loudspeaker
- 3 Visor Mic
- 4 PTT (Dash)
- 5 ALT Microphone (Fist or Handset)
- 6 Antenna: Wide Range, Roof Mount, Glass, Low Profile Combi
- 7 Antenna: Mag Mount





- 1 Dual Control Head Fixtures (Front)
- 2 Dual Control Head Fixtures (Back)
- 3 Visor Mic
- 4 PTT (Front)
- 5 PTT (Rear)
- 6 ALT Microphone (Handset) (Dash)
- 7 ALT Microphone (Handset) (Rear)
- B Loudspeaker (Dash)
- 9 Loudspeaker (Rear)
- 10 Antenna Low Profile

These illustrations show how the radio can be installed in four typical vehicles.

In addition there are kits to fit the radio into a wide variety of cars, trucks, trams, control vehicles, control rooms, covert cars and motorcycles, and even boats.





- **Dual Control Head Fixtures**
- Pump Bay Solution
- Visor Mic
- PTT (Dash)
- PTT (Pump Bay)
- ALT Microphone (Dash)
- ALT Microphone (Rear)
- Fist Microphone
- Speakers
- Antenna

#### Front & Rear Setup (optional)









- **Dual Control Head**
- Cab Radio
- Visor Mic (Gooseneck) (Front)
- Visor Mic (Gooseneck) (Back)
- 5 PTT (Front)
- PTT (Rear)
- Multi Purpose Handset (Multi Function Intercom/Standard Intercom) (Passenger Emergencies)
- Loudspeaker
- Radio
- Antenna (Roof)

MODELS - COMPLIANT WITH DIN 75490 (ISO 7736)				
	MTM5200	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 Persons Control Head	N.A.		Radio with multiple remote mount control head capability.	
Multiple Remote Control Head	N.	Α.	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 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.
Transceiver only	45x170x169	1070	45x170x169	1070	45x170x169	1070
Standard control head	60x188x31	230	60x188x31	230	N	.A.
Remote control head	60x188x39	300	60x188x39	300	60x188x39	300
Motorcycle control head	60x188x39	320	60x188x39	320	N	.A.

USER INTERF	ACE & DISPLAY				
	Diagonal dimension	2.8"			
Display	Туре	VGA - 640x480 pixels Transflective T	VGA - 640x480 pixels Transflective TFT, 65,000 colours		
Display	Backlight	Variable backlight, User cor	nfigurable		
	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		
	International keypad versions	Roman, Arabic, Cyrillic, Korean, Chinese,	Taiwanese characters		
	Programmable function keys	3 programmable function keys (plus 10 programmable function keys (	grammable numeric keys)		
Buttons & Keypad	Navigation	4-way navigation key, menu a	nd soft keys		
	Emergency	Emergency button with ba	acklight		
	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	Tri-colour LED			
IIIUICALIUII	Tones	Configurable notification	tones		
User Interface	Standard Options	Arabic, Chinese Simplified, Chinese Traditional, Croatian, Danish, Dutch, English, French, German, Greek, Hebre Hungarian, Italian, Korean, Lithuanian, Macedonian, Mongolian, Norwegian, Portuguese, Russian, Spanish, Swe			
Languages	User defined	User programmable, using ISO 88	359-1 character		
		Tailored to user needs			
Menu		Menu Shortcuts			
		Menu Configuratio	Menu Configuration		
Contacts Management		Cellular Type	Cellular Type		
Contact List		Up to 1000 contact	s		
CUITACT FIST		Up to 6 numbers per contact, Max	Up to 6 numbers per contact, Max 2000 numbers		
Multiple Dialling Met	hods	User selects how to d	lial		

	MTM5200	MTM5400	MTM5500	
Fast/Flexible Call Response	Private Cal	l Response to a Group Call via One	e Touch Button	
Multiple Ring Tones		Configurable with CPS		
Message Manager		Cellular Type		
Text message list		20		
Intelligent Keypad Text Input		All Control Heads		
Status list		100		
Country/Network Code 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 Display		All Control Heads		
Keypad Lock		All Control Heads		
Talkgroup Folders	Dua	Dual layer folder structure (folder/subfolder)		
Talkyroup Foluers		256 folders		
Favourite Folders	U	Up to 3 (to store any favourite talkgroup)		

<b>ENVIRONMENTAL S</b>	PECIFICATIONS		
Operating Temperature (°C)		-30 to +60	
Storage Temperature (°C)		-40 to +85	
Not in use - Storage	ETSI 300 019-1-1 CLASS 1.3	Non-Weather Protected Storage Loc	cations
Not in use - Transportation	ETSI 300 019-1-2 CLASS 2.3	Public Transportation	
Stationary use - Weather Protected Locations	ETSI 300 019-1-3 CLASS 3.2	Partly Temperature Controlled 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 Environmental	EN50155:2007 and IEC60571 ED. 3.0	Environmental	
MIL STD	810 C/D/E/F Specifications	All 11 categories met (or exceeded)	
Dust and Water Ingress	IP54 (dust cat. 2)	Dash/Desk/Remote models	
Protection Protection	IP67	Motorcycle model (only control head is IP67; transceiver is IP54)	MTM5500 TSCH IP55

<b>ELECTRICAL SPECIFI</b>	CATIONS			
Voltage Range		10.8 to 15.6 V DC		
Idle / Rx / Tx @ 10W		N.A.	0.5 / 1.0 / 1.2 ( TX 3.4A Peak)	
	Idle / Rx / Tx @ 3W	0.5 / 1.0 / .9 (TX 2.2A Peak)		
Current Consumption (A, typ.)	Tx - Multi Slot PD (4 slots) @ 5.6W	/ N.A. (3W only) 2.7		
	Tx - TEDS @ 3W	2.3		
Using USB host		Adds 0.5A		

RF SPECIFICATIONS				
		MTM5200	MTM5400	MTM5500
Frequency Bands (MHz)		350 - 390, 380 - 430, 410 - 470, 806 - 870 380 - 430, 410 - 470		380 - 430, 410 - 470, 806 - 870
Transmitter RF Power	TETRA Release 1	N.A. (3W only) 10W, Class 2 Note: MSPD		Note: MSPD
IIdiisiiillei nr ruwei	TETRA Release 2 (TEDS)	3W, Class 3		
RF Power Control	6 Power Step Levels (steps of 5 dBm)	Starting at 15 dBm; finishing at 40 dBm		m
Receiver Class		A & B		
Receiver Static Sensitivity (dBm)		-114 minimum, -116 typical (ETSI 300-392-2)		
Receiver Dynamic Sensitivity (dB	lm)	-105 minimum, -107 typical (ETSI 300-392-2)		32-2)

<sup>\*</sup> Please refer to the separate specification sheet \*\* For availability of other language keypads please contact your local MSI representative

GPS SPECIFICATIONS	
Simultaneous Satellites	12
Mode of Operation	Autonomous or assisted (A-GPS)
GPS Antenna	Supports active antenna (5V, 25mA supply)
Autonomous Acquisition Sensitivity	-143 dBm / -173 dBW
Tracking Sensitivity	-159 dBm / -189 dBW
Accuracy	<5m (50% probable) <10m (95% probable)
TTFF (HOT Start - Autonomous)	<1s
TTFF (WARM Start - Autonomous)	<11s
TTFF (COLD Start - Autonomous)	<36s
Location Protocols	ETSI Location Information Protocol (LIP)
LUCATION FIOLOCOIS	Motorola LRRP

<b>VOICE SERVICES</b>				
Talkgroups		2048 (TMO) & 1024 (DMO)		
Phone book entries		1000 persons. Up to 6 numbers per entry (mobile, office etc). Max 2000 entries		
Scan lists		40 lists of 20 talkgroups		
	Group call	Late Entry, TMO/DMO Mapping		
	Private call	Half / Full Duplex		
Trunked Mode (TMO) Services	Telephony (PABX, PSTN, MS-ISDN)	Full Duplex		
	DGNA	Up to 2047 groups		
	Scanning	Attachment signalling, supports SWMI initiated attachment/detachment		
Direct Mode (DMO) Services		Group call		
Direct Mode (DIMO) Services		Private call		
	Tactical	Emergency Group Call to ATTACHED talkgroup		
	Non-Tactical	Emergency Group Call to DEDICATED talkgroup		
	Individual	Emergency Call to PREDEFINED party (half/full duplex)		
\\\\\\\	Smart emergency	TMO/DMO/DMO to TMO automatic switching options		
Emergency (tailored by users)	Hot Mic	Configurable timers for automatic open mic (talk without PTT)		
	Location	Location (GPS) sent with emergency		
	Target Address	Sent to individual or group address (selected or dedicated)		
	Alarm (status message)	Emergency Status (or other pre-defined status)		

DATA SERVICES		
Status	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)		Cellular style iTAP predictive text entry
SHOLL Data SELVICE (SDS)	Target Address	Sent to individual or group address (selected or dedicated)
	Voice Call Interaction	SDS messages can be sent and received during a voice call
	Multi-slot PD	Data transmission with up to 4 slots supporting up to 28.8 kbit/s gross
Packet Data (PD)	TETRA Enhanced Data Service (TEDS) (via software upgrade)	Supporting 25kHz and 50kHz channel bandwidths and enabling practical data rates of up to 80kbit/s
		QAM Channels: 25 kHz and 50 kHz (but not D8PSK channels)
TEDS (capable)		QAM modulation/coding modes: $4-QAM\ R1/2$ , $16-QAM\ R1/2$ , $64-QAM\ R1/2$ , and $64-QAM\ R2/3$
Integrated WAP browser (including WAP-PUSH)		Integrated Openwave browser
		WAP 1.2.x and WAP 2.0 compatibility for UDP/IP Stack
D : 1	Interface Protocol	AT Commands - Full Set ETSI Mandatory Compliant
Peripheral Equipment Interface (PEI)		AT Multiplexer - 4 Virtual Physical Port (simultaneous PD, SDS, AT commands and Air Tracer SESSIONS)
Interface (i Li)		TNP1; enables simultaneous PD and SDS sessions
		Programmable via Motorola Integrated Terminal Management (iTM) solution
Terminal Management	Over-The-Air Programming (OTAP) Mode* Capable	Background Mode Programming (BMP) capable* - while radio is operational (providing TETRA services) it is being programmed/configured.  * Planned features with software upgrade

<b>GATEWAY SEI</b>	RVICES			
		MTM5200	MTM5400	MTM5500
		N.A.	Group voice	calls from DMO to TMO
		N.A.	Group voice	calls from TMO to DMO
		N.A.		up call from DMO to TMO
		N.A.	Emergency gro	up call from TMO to DMO
DMO/TMO Gatew	10.1	N.A.	Transmission of	f Gateway Presence Signal
DIVIO/ TIVIO datev	<i>r</i> ay	N.A.	Automatic detection and r	management of co-located Gateways
		N.A.		otion (in either direction)
		N.A.		TMO (including GPS) or from TMO to DMO*
		N.A.		f SDS messages to console or PEI
		N.A.	Intelligent handling of point to point calls	s and SDS messages whilst operating as a Gatew
REPEATER SE	RVICES			
		N.A.	Repeats DMO void	ce calls on selected talkgroup
		N.A.	Repeats SDS and Status	messaging on selected talkgroup*
		N.A.	ETSI type 1A DMO Repe	ater for channel efficient operation
		N.A.	Transmission of	Repeater Presence Signal
DMO Repeater		N.A.		Priority Call
		N.A.		(Pre-emptive Priority Call)
		N.A.	E2EE End	crypted DMO traffic
		N.A.	Monitoring of and participa	ation in calls whilst in Repeater mode
		N.A.	Configurable	Repeater Power Levels
INTERFACES				
RS232		For PEI (Four Virtual		olications to run simultaneously Packet Data,
nozoz		1100 0 6	AT Commands, SDS, 3	
			simultaneously Packet Data an	
USB			Data, AT Commands, SDS, SCOUT);	
			On-The-Go (host & slave) capability for	
Rugged Accessory Cor	anactor (CCAI)		support (Host Mode) to manage USB Slave	e Devices (e.g. Silvi CAND NEADEN) i of accessories, data terminals and programming
	Digital I/O		7 (4 on remote and motorcycle control	
General Purpose Input/Output	Analog input		4 (1 on remote and motorcycle control	
SECURITY FEA				
Air Interface	Algorithms		TEA1, TEA2, TEA	
Encryption	Security Classes		Class 1 (Clear), Class 2 (SC	
	Authentication		Infrastructure initiated and made	
Provisioning			Secure provisioning tool via Key V	
			PIN/PUK code acc	cess
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 pre-installed service profiles, selected by the infrastructure		
Data			Packet Data user authe	entication
Ford to Ford	Voice E2EE			Name and Address of the Control of t
End to End Encryption (EtEE)	Packet Data E2EE		nced End to End Encryption with OTAR e (UCM) and SIM (via integrated card s	
Eneryption (ELEE)	Short Data (SDS) E2EE	Grypto ividuali	e (oow) and onvi (via integrated Card S	orot, and or Grypti z brodubdilu IF utilit.
RECIII ATORY	COMPLIANCE			
MEGOLATONY	COMIT EIANGE		EN 303 035-1	
			EN 303 035-2	
Dadia (DOTTE Astiala 1	3.2)		ETSI EN 300-394	
naulo (no l le Article a			ETSI EN 300-392	
naulu (no i i e Article s				
			FN 301 489-1 V1	
	1.b)		EN 301 489-1 V1. FN 301 489-18 V1	
EMC (R&TTE Article 3			EN 301 489-18 V1	.3.1
EMC (R&TTE Article 3			EN 301 489-18 V1 EN 60950-1 (200	.3.1 01)
EMC (R&TTE Article 3 Electrical Safety (R&T			EN 301 489-18 V1 EN 60950-1 (200 EN50360:2001 EN	.3.1 )1) ME
EMC (R&TTE Article 3 Electrical Safety (R&T			EN 301 489-18 V1 EN 60950-1 (200 EN50360:2001 EN Directive 2002/96/EC	.3.1 )1) ME ; WEEE
Radio (R&TTE Article 3  EMC (R&TTE Article 3  Electrical Safety (R&T  Environmental  Automotive			EN 301 489-18 V1 EN 60950-1 (200 EN50360:2001 EN	.3.1 11) ME WEEE 71 ED. 3.0)

<sup>\*</sup> Future software release MTM5000 SERIES BROCHURE PAGE 11



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

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