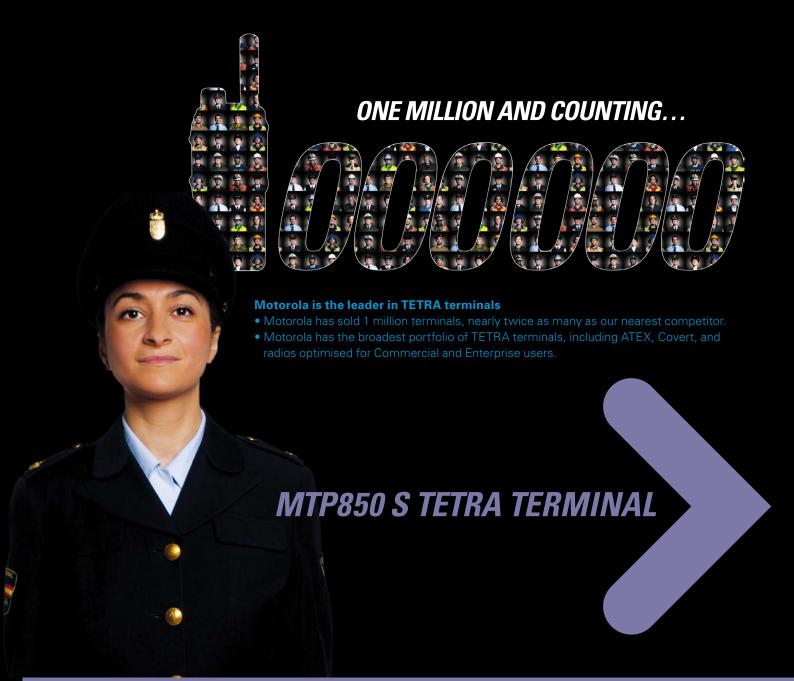


MTP850 S TETRA Portable Terminal

Rugged and safe, the radio you want by your side for Mission Critical Communications





We test our terminals in our labs, not on our Customers

Motorola has been designing Mission Critical Communications for over 70 years and if there's one thing we've learned it's that Public Safety is a tough place to be.

Not just in the obvious places, like the fires or the major incidents, but it's a tough place every single day.

It's that experience that has taught us that all of our products need to be tough, 'every single day' tough.









That's why we came up with our Accelerated Life Testing

Our ALTTM and other programmes test our radios to simulate a full five years of hard use. Five years worth of being dropped, bashed, shaken, heated, frozen, shocked, and soaked; And that's not just five 'consumer' years, but five 'mission critical' years of hard use.

Durability is only one half of the story, we test for toughness too. Here are a couple of examples of standard tests that all, not just our rugged ones, terminals have to exceed;

• Thermal Shock Test

- Frozen to -57°C for two hours, them heated to +80°C in less than fifteen seconds and kept there for a further two hours. This is then repeated a further five • Drop Test - Dropped from a height of 1.2 meters on each of the six faces of the radio onto a smooth concrete or steel surface. This is repeated and only passes if the terminal continues to function throughout the test and this includes the battery not falling off and providing continuous power to the terminal.



THE ULTIMATE IN SAFETY, DURABILITY AND PERFORMANCE.

The MTP850 S is Motorola's new TETRA portable terminal for mission critical communications. Incorporating all of the features of the MTP850, this terminal includes an advanced Man Down sensor for exceptional user safety together with a new side connector for increased ruggedness.

Providing higher power will increase range and in-building performance, and so Motorola has added Class 3L (1.8W) power output option. Taken together with high receive sensitivity the MTP850 S has the capability for maintain communications in the most demanding situations.



Improved operational effectiveness through:

- Access to information databases through integrated WAP browser - make decisions based on the latest information.
- Update your availability and situation using Status Messaging - monitor the progress of job assignments, or call for support when needed.
- Integrated GPS. Knowing where your resources are enables you to allocate tasks based on up to date information.



- Improved coverage in DMO operations.
 This will ensure that users can communicate over a wider area or in buildings or built-up areas.
- Man down feature will send an alert to the console operator if the radio does not move in a given period of time or if the radio tilts more than the programmed angle.
- Silent emergency, hitting the emergency button alerts colleagues to critical situations but sends and updates your location, without showing any indication on the terminal screen.
- Rugged side connector. This new side connector with the range of available accessories ensures that connection is maintained even in the most violent of situations.



Terminal Services -Ensuring Maximum Performance to Meet your Mission Critical Requirements

- Service Centre Excellence: We deliver. With our proven same day repair capability, you can be sure your equipment is expertly repaired and back in your end users' hands quickly. Using the latest tools and with strict adherence to Motorola engineering procedures, our European Radio Support Centre's expert technicians diagnose and repair units to original manufacturing specifications.
- Technical Expertise: Get answers to your technical questions, reduce downtime and improve issue resolution times.

 Experienced technical support engineers work with you to diagnose and resolve hardware and software problems resulting in swift resolution of issues for your end users.
- Customer Service: A single source for support delivered through our new state of the art call centre, available 24x7 to track customer issues and 8x5 for technical support. Ready to assist by telephone, e-mail or fax.
- Certified solutions: All our services are fully certified to comply with ISO, ATEX/ FM and CENELEC thereby providing the peace of mind that can only come from an experienced and trusted supplier.
- Defined Service Level Agreements (SLAs): All Motorola services are offered to committed SLAs including turnaround times.

SAFETY AND EFFECTIVENESS THROUGH



1 Class 3L Transmit Power and High Receiver Sensitivity

The MTP850 S has been upgraded with a more powerful transmit power option. This will benefit the user with greater DMO range and in building coverage.

2 Designed to Deliver - Designed for the Future

The MTP850 S comes with processing power to ensure users can take advantage of applications such as WAP and Multi Slot Packet Data.

3 Personal Safety

Protecting your staff is vital. The MTP850 S incorporates the Man-Down feature to send alerts if the user is at risk. Emergency calls are sent with automatic location updates.

4 True Colour - Truly Original

The MTP850 S has a 130 x 130 pixel display capable of displaying over 65,000 colours - ideal for viewing high resolution images via your WAP browser.

(5) Secure Communications

Maintaining private and secure communications is increasingly important, with potentially sensitive information flowing through voice or data. The MTP850 S provides security, from inherent protection of a digital system to the highest levels of security using Air Interface Encryption or an integrated End-to-End encryption module.

6 Robust Side Connector

The Rugged Side connector ensures that the accessory will remain connected at all times even during a violent situation.

PERFORMANCE MATCHED ACCESSORIES

Professional radio users operate in varied and demanding conditions. Enhance your MTP850 S with a wide range of Motorola Genuine.



Audio Accessories

From covert surveillance to high noise environments Motorola offers solutions to meet your needs



Carry Options

Carrying accessories in various forms and materials. Coupled with audio accessories, a Motorola solution offers convenience and hands free mobility.



Batteries

Genuine Motorola batteries designed to deliver optimum performance



Charging & Vehicle Solutions

Whether on your desk or in your vehicle, Motorola charging solutions maximise

Specification sheet

		TETTIA I OLIADIE TETTIIIIAI
GENERAL		
	405 50 00	
Dimensions HxWxD mm Weight	125 x 59 x 36 174 g	(with standard battery) (radio only)
vveignt	234g	(with standard battery)
Battery Performance	Class 4 (1W)	Class 3L (1.8W)
Battery Performance Duty Cycle (5/5/90)	> 23 hours	> 20.5 hours
Duty Cycle (5/35/60)	> 17 hours	> 15.5 hours
Talk Time	3.5 hours	2.5 hours
RF SPECIFICATIONS		
Frequency Bands	380-430 MHz	
Transmitter RF Power	Class 3L (1.8W) & Class 4 (1W)	
RF Power Level Accuracy	2 dB	
Adaptive Power Control	A and B	
Receiver Class	A and B -112 dBm minimum (-115 dBm typical)	
Receiver Static Sensitivity Receiver Dynamic Sensitivity	-112 dBm minimum (-115 d -103 dBm minimum (-107 d	IBM typical)
Heceivei Dynamic Sensitivity	-103 dbiii iiiiiiiiiiiiiiiii (-107 c	iom typical)
ENVIRONMENTAL SPECIFICATIONS		
Operating Temperature °C	-30 to +60	
Storage Temperature °C	-40 to +85	
Humidity	ETSI 300 019-1-7 class 7.3E	
Dust and Water Ingress Protection	IP54 per IEC 60529	
Shock, drop and vibration	ETSI 300-019 1-7 class 5M	3
LICENSES/OPTIONS	ACCESSORIES	
Call-Out License GPS License	Antennas (stubby, whip) Ratteny (Li Jon 1850 mAh)	
Multi-Slot Packet Data License	Battery (Li lon 1850 mAh) Various carrying solutions	
WAP Browser License	Battery Chargers & Vehicle Adapters	
Enhanced Security License		
Permanent Disable License	Remote Speaker Microphones	
Temporary Disable License	Earpieces	
RUA/RUI License	In-Vehicle Solutions Serial & USB Programming/Data Cables	
Language & Keypad Options Air Interface Encryption Options	Seriai & USB Programming	/Data Cables
End to End Encryption Options		
Man-Down Feature Option		
Class 3L (1.8W) License		
SECURITY SERVICES		
Authentication (Mutual) Class 1, 2, and 3		
Air Interface Encryption (CESG Baseline)		
E2E Encryption (CESG Enhanced)		
BSI SIM Card Encryption		
MAIN DATA CEDIVICE		
MAIN DATA SERVICES Packet Data	M/AP Browser /Image-Brow	veingl
Tacket Data	WAP Browser (Image Brow Multi-Slot Packet Data	vsing)
Short Data	STATUS Messaging in TMC	D & DMO
	SDS Messaging in TMO &	
TNP1	Short Data Applications	Packet Data and Short Data Services
TIME	over a common Perinberal	Packet Data and Short Data Services Equipment Interface (PEI)
AT Commands	Full Set of AT Commands (i	including Voice Control)
iTM	Fleet Management (Remot	e Programming)
LOCATION SERVICES		
LOCATION SERVICES		
Simultaneous Satellites	12	
GPS antenna	Helical integrated into TETF	
Sensitivity Accuracy	-152 dbm / -182 dbW	
	5 meter (50% probable)* 10 meter (95% probable)* ETSI LIP & Motorola LRRP	
Protocols	ETSI LIP & Motorola LRRP	

USER INTERFACE			
Colour Display	130x130 pixel screen with 65,536 vivid colours		
		Flip screen and large/x-large text & icon options Backlight	
Screen Saver	gif image & text (any use	gif image & text (any user's selection)	
Universal Time Display			
Multiple Languages			
Keypad Lock			
Talkgroup Management	User friendly, flexible, efficient, fast		
Talkgroups – TMO	2048		
Talkgroups – DMO	1024		
Talkgroup Folders	Dual layer folder structure (folder/subfolder) 256 folders		
Favourite Folders		Up to 3 (to store any favourite talkgroup)	
Menu	Tailored to user needs		
	Menu Shortcuts		
	Menu Configuration		
Contacts Management		Cellular Type (Rapid Search)	
Contact List		up to 1000 contacts	
	up to 6 numbers per cont	act, max 2000 numbers	
Multiple Dialling Methods	user selects how to dial		
Fast/Flexible Call Response	Private Call Response to a Group Call via One Touch Button		
Vibrator & Multiple Ring Tones			
Message Manager	Cellular Type (Flexible)		
Text message list	20		
Intelligent Keypad Text Input			
Status list Country/Network Code List	100		
	100		
Scan lists	40 lists of 20 groups		
User Controls			
Multi-function Rotary Knob	Volume, List Scroll, and/or Talkgroup Selection		
One touch Buttons & Keys	each button key can be p	each button key can be programmed with one	
	of the multiple functions	available	
Adaptive Audio Control	Best audio profile for a given working environment		
Covert Mode			
MAIN VOICE SERVICES			
Full Duplex	TMO	Private, PABX, PSTN, Emergency	
Half Duplex	TMO	Private, Group, Emergency	
THE STATE OF THE S	DMO	Private, Group, Emergency	
		Inter-MNI, Gateway, Repeater	
Dialling		Direct, Scroll, Speed, One touch	
		button/key,	
		Alpha Search, Call History Redial	
Emergency	Tactical	Emergency Group Call to ATTACHED	
		talkgroup	
(tailored by users)	Non-Tactical	Emergency Group Call to DEDICATED	
(tallored by abers)	Non idelical	talkgroup	
	Individual	Emergency Call to PREDEFINED party	
	marviadai	(half/full duplex)	
	HOT MIC	talk without need to PTT (user enabled)	
	Status Msg	sent to dispatch console (user enabled)	
	DMO to TMO	enter DMO emergency (with/without	
	DIVIO TO TIVIO	gateway) or enter TMO emergency	
Preemptive Priority Calls		gateway) or enter 11110 emergency	
Call Out			
PTT Double Push			
T T Dodbie T doll			

The information contained in this brochure may be subject to change without further notice

- Product features may be subject to infrastructure suppor
- Selected features are subject to optional or future software upgrade

For more information please contact your local Motorola Authorised Dealer or Distributor

