MTP850
TETRA HANDPORTABLE TERMINAL
VERSATILE AND ADAPTABLE VOICE AND
DATA COMMUNICATIONS

MOTOROLA

Seamless access to voice and data when and where it's needed most

The MTP850 is Motorola's latest TETRA portable terminal for mission critical mobile voice and data communications. By delivering fully integrated voice and data services it ensures users have access to up to date intelligence, enabling them to make truly informed decisions.

At the core of Motorola's Seamless Mobility vision is a simple idea; and organisation benefits when it provides tools to its workers that empower them to be more productive. Motorola's TETRA solutions start this process by seamlessly linking voice and data, allowing users to find the people and information they need, when and where it is needed.
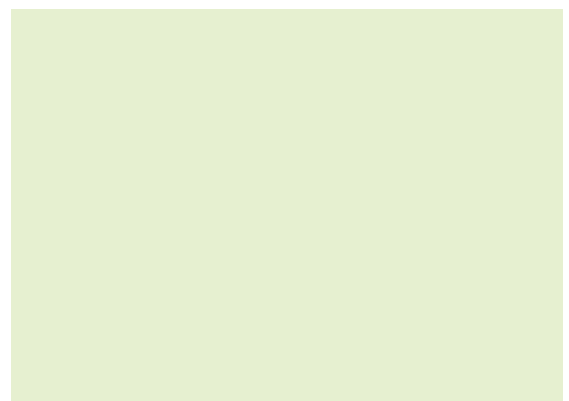
Improved productivity through:
- Instant access to information databases through integrated WAP browser - make decisions based on the latest information.
- Update your availability and situation using Status Messaging - monitor the progress of job assignments, or call for support when needed.

Improved resource management through:
- Ability to locate resources - with state of the art integrated GPS receiver.
- Knowing where your resources are enables you to allocate tasks based on up to date information.

Improved security through:
- Hitting the emergency button not only alerts colleagues to critical situations, but sends and updates your location, so help is sent when and where it is needed.
- Secure communications, whether inherent protection from TETRA digital signalling or encrypted communications. The MTP850 supports both TETRA Air Interface Encryption and for those with enhanced security needs, End to End Encryption solutions.

Innovation through design

DESIGNED TO DELIVER - DESIGNED FOR THE FUTURE

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

PERSONAL SAFETY

Protecting your staff is vital. The MTP850 helps you achieve this, with its high quality voice calls, backed up by emergency calls with automatic location updates.

TRUE COLOUR - TRULY ORIGINAL

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

SECURE COMMUNICATIONS

Maintaining private and secure communications is increasingly important, with potentially sensitive information flowing through voice or data. The MTP850 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.

RELIABLE AND ROBUST

Every Motorola TETRA radio is designed to pass an Accelerated Life Test simulating over 5 years use; these tests ensure the MTP850 will stand up to the toughest conditions.

Performance Matched Accessories

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

AUDIO ACCESSORIES

From covert survaillance 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 from you MTP850

CHARGING & VEHICLE SOLUTIONS

Whether on your desk or in your vehicle, Motorola charging solutions maximize battery life

SPECIFICATIONS

General

Dimensions HxWxD mm	125 x 50 x 33.5 (with slim battery)	
	125 x 50 x 37.5 (with standard battery)	
Weight (g)	170 (radio only)	
	225 (with slim battery)	
	240 (with standard battery)	
Battery Performance	Slim Li Ion	Standard Li Ion
	(950 mAh)	(1850 mAh)
Duty Cycle (5/5/90)	> 12.5 hours	> 23 hours
Duty Cycle (5/35/60)	> 9 hours	> 18 hours
Talk Time	1.9 hours	3.5 hours

User Interface

Colour Display	130x130 pixel screen with 65,536 vivid colours
	Flip screen and large text options
Address Books & List Capacities	
Talk Groups – TMO	2048
Talk Groups – DMO	1024
Contact List	1000 Persons
	Up to 6 numbers per entry, max 2000 numbers
Text message list	20
Status list	100
Country code/Network code list	100
Scan list	40 lists of 20 groups

Environmental

Operating Temperature °C	-30 to +60
Storage Temperature °C	-40 to +85
Humidity	ETS 300 019-1-7 class 7.3E, up to 95% for 8 hours
Dust and Water Ingress	IP54 (cat.2) IEC 529 class
Shock, drop and vibration	ETS 300-019 1-7 class 7.3E (- 30 to +60)
	Between 5-95% relative humidity, no condensation

RF Specifications

Frequency Bands MHz	380-430
	806-870
RF Channel Bandwidth kHz	25
Transmitter/Receiver Separation MHz	10 (380-400 and 410-430)
	45 (806-870)
Switching Bandwidth TMO MHz	19 (806-825, 851-870)
	40 (380-400 and 410-430)
Switching Bandwidth DMO MHz	19 (851-870)
	40 (380-400 and 410-430)
RF Power Control	3 steps of 5dB
Transmitter RF Power Watt	1
RF Power Level Accuracy +/- dB	2
Receiver Class	A and B
Receiver Static Sensitivity dBm	-112 minimum (-115 typical)
Receiver Dynamic Sensitivity dBm	-103 minimum (-107 typical)

Integrated GPS Specifications

Simultaneous Satellites	12
GPS antenna	Helical integrated into TETRA antenna
Sensitivity	-152 dbm / -182 dbW
Accuracy	5 meter (50% probable)*
	10 meter (95% probable)*

* Measured at -135 dBm at component level

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

• Product features may be subject to infrastructure support

• Selected features are subject to optional or future software upgrade

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