



# MTM800 Motorola Tetra Mobile Terminal 806-870 Mz



**General Specifications**

|                     |   |
|---------------------|---|
| Dimensions HxWxD mm | 49x170x155 (radio only)<br>72x185x53 (standard control head)<br>58x185x58 (Motorcycle control head) |
| Weight g            | 1370 (radio only)<br>1670 (radio with control head)<br>448 (Motorcycle control head only)           |
| Display             | 2 lines<br>14 character backlit dot-matrix  |
| Talkgroups – TMO    | 2048  |
| Phone book entries  | 1000  |
| Text message list   | 20  |
| Status list         | 100   |
| Scan List           | 20 lists of 20 groups   |

**Environmental**

|                           |  |
|---------------------------|--|
| Operating Temperature °C  | -30 to +60   |
| Storage Temperature °C    | -40 to +85   |
| Humidity                  | ETS 300 019-1-5 class 5.1 and 5.2<br>EIA/TIA 603 (95%) |
| Dust and Water –          | IP54 (cat.2)<br>Standard control head                  |
| Shock, drop and vibration | ETS 300 019-1-5 class 5M2 and 5M3<br>MIL 810 C/D/E/F   |

**RF Specifications**

|                                 |   |                        |
|---------------------------------|---|------------------------|
| Frequency Band                  | MHz   | 806-870                |
| Transmit Band                   | MHz   | 806-825                |
| Receive Band                    | MHz   | 851-870                |
| DMO Band                        | MHz   | 851-870                |
| RF Channel Bandwidth            | kHz   | 25                     |
| Switching Bandwidth (TMO)       | MHz   | 19 (851-870)           |
| Switching Bandwidth (DMO)       | MHz   | 19 (851-870)           |
| Transmitter/Receiver Separation | MHz   | 45 (806-870)           |
| Transmitter RF Power            | Watt  | 3 (806-870)<br>Class 3 |
| RF Power Control                | 4 Steps of 5 dB   |                        |
| RF Power Level Accuracy +/-     | db  | 2                      |
| Receiver Class                  | A and B   |                        |
| Receiver Static Sensitivity     | dBm   |                        |
| Receiver Dynamic Sensitivity    | dBm   |                        |
| <b>GPS Specifications</b>       |   |                        |
| Mode of operation               | Autonomous  |                        |
| GPS antenna                     | lead with FME connector for standard<br>GPS antennae (5V,25mA Supply)         |                        |
| Sensitivity                     | -152 dbm/-182dbW  |                        |
| Accuracy                        | 5 meter (50% probable)<br>10 meter (95% probable) †<br>† Measured at -137 dbm |                        |

† Measured under specific controlled environment

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

- Please note all product features are subject to infrastructure support
- Selected features are subject to optional software upgrade
- The availability of accessories included in this document are subject to change without notice

Accelerated Life Testing  
Stringent Motorola Accelerated Life Testing simulating five years of hard use in real life, EIA RS-316B in Shock, Vibration, Dust, Humidity, IP54 for Sealing.

MIL-STD 810C, D and E  
Stamp of approval from the U.S. Military for use in rough environments.

ISO 9001 Standard Compliance with ISO 9001 Standard—an international quality system assurance on design, development, production, installation and servicing of a product.



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TETRA Spec.01.AUS.Feb09  
BTB MA465



# MTP850 Motorola Portable 806-870 Mhz

**General Specifications**

|                                |   |
|--------------------------------|---|
| Dimensions HxWxD mm            | 125 x 50 x 33.5 (standard capacity battery)                       |
|                                | 125 x 50 x 37.5 (ultra high capacity battery)                     |
| Weight g                       | 189 (radio only)  |
|                                | 230 (with standard capacity battery)                              |
|                                | 243 (with ultra high capacity battery)                            |
| Battery Performance            | Standard capacity Li Ion Ultra high capacity Li Ion               |
|                                | (950 mAh) (1850 mAh)  |
| Duty Cycle (5/5/90)*           | > 10 hours > 20 hours   |
| Colour Display                 | 130x130 pixel screen size with 65,536 vivid colours               |
|                                | Flip screen and large text options                                |
|                                | Standard Mode: 4 lines  |
|                                | Zoom Mode: 5 lines  |
| Talk GroupsTMO                 | 2048  |
| Address book                   | 1000 Persons (up to 6 numbers per entry – max total 2000 entries) |
| Text Message List              | 20  |
| Status List                    | 100   |
| Country code/Network code list | 100   |
| Scan list                      | 40 scan lists of 20 talk groups each                              |

**Environmental**

|                           |  |
|---------------------------|--|
| Operating Temperature °C  | -25 to +60                                       |
| Storage Temperature °C    | -40 to +85                                       |
| Humidity                  | ETS300 019-1-7 class 7.3E, up to 95% for 8 hours |
| Dust and Water            | IP54 (cat.2) - EC529 class                       |
| Shock, drop and vibration | ETS 300 019-1-7 class 5M3<br>MIL-STD 810 D/E/F   |

**RF Specifications**

|                                  |              |
|----------------------------------|--------------|
| Frequency Bands MHz              | 806 - 870    |
| RF Channel Bandwidth kHz         | 25           |
| Transmitted RF Power Watt        | 1            |
| RF Power of Accuracy +/-db       | 2            |
| Receiver Class                   | A and B      |
| Receiver Static Sensitivity dBm  | -115 typical |
| Receiver Dynamic Sensitivity dBm | -107 typical |

**Integrated GPS Specifications**

|             |                            |
|-------------|----------------------------|
| GPS antenna | Helical integrated antenna |
| Sensitivity | 152dbm/-182dbW             |
| Accuracy    | 5 - 10 meter*              |

\* Measured under specific controlled environment

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