

(/en\_xu.html)

HOME (/EN\_XU.HTML) \ PRODUCTS & SERVICES (/EN\_XU/PRODUCTS.HTML) \ TETRA (/EN\_XU/PRODUCTS/TETRA.HTML)  
\ TETRA RADIO TERMINALS (/EN\_XU/PRODUCTS/TETRA/TERMINALS.HTML) \ DISCONTINUED (/EN\_XU/PRODUCTS/TETRA/TERMINALS/DISCONTINUED.HTML)  
\ MTH800 TETRA GPS PORTABLE TERMINAL FOR PUBLIC SECTOR AND MILITARY COMMUNICATIONS

# MTH800 TETRA PORTABLE RADIO (DISCONTINUED)



The MTH800 boasts the very latest technological advances – developed in response to a myriad of real-world requirements.

From public sector users such as the emergency services and military, to commercial enterprises in industries as diverse as utilities, retailing, construction, logistics and transport – the need for greater security has never been more important. From the end-to-end encryption to the integrated GPS location system, the MTH800 offers an unrivalled set of tools for personal safety and security. Available only in the 450-470MHz frequency band.

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[FEATURES](#)

[PERFORMANCE CHARACTERISTICS](#)

[RADIO FEATURES](#)

[USER ENVIRONMENT](#)

[VOICE SERVICES](#)

[Change Privacy Settings](#)

(/en\_xu/ser...

DMO SERVICES

EMERGENCY VOICE SERVICES

DATA SERVICES

SECURITY FEATURES

GPS SPECIFICATIONS

## Features

### GPS Location Service

Enhance user safety and efficiency with the MTH800. Incorporating the latest semiconductor technology, it includes a highly sensitive, low power consumption GPS receiver. The MTH800 uses a new patented antenna combining TETRA and GPS signal to help ensure optimal positioning of the antenna for GPS coverage. The solution includes a full terminal resident software application providing control of all GPS parameters over the air – no need to touch programmed terminals when changes are required.

### Performance

The MTH800 comes packed with power, a new processor and Digital Signalling Processor (DSP) to ensure applications such as WAP, Multi Slot Packet Data (MSPD), imaging etc will run smoothly and take advantage of the 16MB byte flash memory.

### Audio

While MTH800 includes many exciting new features it is important to not forget the basics – audio quality! To that effect MTH800 has two major improvements; a new larger and more effective 1 Watt speaker as well as a new 1 Watt class D audio amplifier, all together providing exceptional clarity of audio with minimal distortion, even at high audio levels (user customisable sound level).

### Colour Display

Display technologies are moving fast. Motorola now has a 65,000 colour display included in the MTH800 for ease of use to differentiate display information to the user. The 130 x 130 pixel display provides the ability to view high resolution pictures e.g. missing persons, suspects etc.

### User Interface

To harness the power of MTH800 a new easy-to-use graphical user interface is included with assignable shortcuts to menu items, more than 3,000 Talk Groups as well as a unified contact book with 2,000 entries – enough to satisfy even the demanding user.

## Performance Characteristics

### Battery capacity

800 mAh (standard), 1500 mAh (hi-capacity)

### • Battery life - standard (based on a 05 05 90 duty cycle)

12 (800 mAh), 20 (1500 mAh)

### Frequency bands

450-470 MHz

### • Channel spacing

25

### Power

1W

### • RF power control

3 steps of 5 dB

### OTAR

Yes

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## Radio Features

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### Switching bandwidth

50 (380-430), 20 (450-470) MHz

### Receiver class

A & B

### Receiver dynamic sensitivity

-103 minimum, -107 typical

### • RF power level accuracy

+/- db 2

### • Receiver static sensitivity

-112 minimum, -115 typical

### • Scan types

Talkgroup

## User Environment

### Operating temperature

-20°C to +60°C

### Humidity

ETS 300 019-1-5 Class 5.1 and 5.2

### Shock, drop and vibration

ETS 300 019-1-5 Class 5M2

### • Storage temperature

-40°C to +85°C

### • Dust and water

IP64 (Cat 2) <sup>1</sup>

### • IP Standards

IP64

## Voice Services

### Talkgroups

2048 (TMO) & 1024 (DMO)

### Scan lists

40 lists, 20 talkgroups / lists

### Transmit inhibit

Yes

### • Phone book

1000 entries

### • Ambience listening

Yes

## TMO Services

### Telephony

Full duplex

### • DGNA

Up to 2047 groups

## DMO Services

### Group call

Late entry

### • Private call

Half / full duplex

### Compatibility with

Gateway and repeater

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## Emergency Voice Services

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### Smart emergency

DMO / TMO / DMO to TMO

### Location

Send on emergency

### Alarm

Emergency status

- **Hot mic**

Configurable timers

- **Emergency target address**

Individual or group

## Data Services

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### Battery life - extended (based on a 5 35 60 duty cycle)

8 (800 mAh), 16 (1500 mAh)

### Short data service (SDS)

20 message inbox, individual or group addresses, send/receive during calls

### Browser

Integrated Openwave browser

- **Status messaging**

100 alias messages

- **Packet data (PD)**

7.2kbps - 28.8 kbps gross (single or multi-slot)

- **PEI**

AT commands

## Security Features

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### Air interface encryption algorithms

TEA1, TEA2, TEA3

### Key provisioning

"Secure provisioning tool (key variable loader KVL)  
Over the Air Re-keying (OTAR) for SCK and Class 3 (CCK & GCK)"

### Authentication

Infrastructure initiated and made mutual by terminal

- **Air interface encryption security classes**

Class1 (clear), Class2 (SCK), Class3 (DCK, CCK & GCK)

- **Network access**

Temporary enable disable (Stun), Permanent enable disable (Kill)

## GPS Specifications

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### Simultaneous satellites

12

### GPS antenna

Integrated in TETRA antenna

### GPS accuracy

5 meter (50% probable), 10 meter (95% probable)

- **Mode of operation**

Autonomous or assisted (A-GPS)

- **GPS sensitivity**

-152 dBm / -182 dBw

- **Location protocols**

ETSI LIP, Motorola LRRP [Change Privacy Settings](#)

<sup>1</sup>As part of Motorola's continual improvement process, all radios manufactured from July 2010 meet an improved IP55 rating (previously was IP54). To identify which revision meets the TANAPA label by removing the battery, this label has a manufacturing model of structure PMUExxxxY, where x is a number. The last character, Y, indicates the model revision. For model PMUE3615, revision B meets IP55. For all other models revision C (or later) meets IP55. For further information contact your local Motorola office or distributor.

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