

## FEATURES

### VOICE SERVICES SUPPORTED – GROUP:

- Group call – TMO/DMO
- Group call – TMO/DMO via a DMO Gateway
- TMO/DMO Programmable Talk Group mapping
- Late Entry – TMO/DMO
- Emergency call – TMO/DMO (including 'Hot Microphone' option)
- Smart emergency call, set up to selected group, pre-defined group, individual or telephone/PABX subscriber
- Announcement Talk Group call
- Hidden Talk Groups
- Dynamic Group Number Assignment (DGNA) – (up to 2047 Groups)
- Local site trunking
- Scanning
- Talking Party Identification
- Priority Monitor
- Site Wide Call

### VOICE SERVICES SUPPORTED – PRIVATE CALL:

- Half duplex/full duplex operation
- Flexible dialling (list scroll, short number dial, direct entry, alphabetic search, last number called)
- Loud/discreet audio mode
- Calling line Identification Presentation
- Busy User Pre-emption (Pre-emption Priority Call – PPC)
- Speakerphone

### VOICE SERVICES SUPPORTED – TELEPHONE CALL (PABX/PSTN):

- Full duplex operation
- Speakerphone
- Flexible dialling (list scroll, direct dial, alphabetic search, speed dial, one-touch dial, last number redial)
- DTMF over dial
- Calling line Identification Presentation
- Busy User Pre-emption (Pre-emption Priority Call – PPC)

### SECURITY SERVICES SUPPORTED:

- Air Interface Encryption:
  - Algorithms
    - TEA1, TEA2, TEA3\*
  - Security Class
    - Class 1: Clear
    - Class 2: Static Cipher Key (SCK)
    - Class 3: Derived Cipher Key (DCK) and Common Cipher Key (CCK)

- Authentication
  - Infrastructure Initiated
  - Made mutual by Terminal
- Secure Key Provisioning Tool for customer use
- User crypto key deletion from keypad
- Radio Stun
- PIN/PUK code access
- Packet data user authentication

### E2E SECURITY SERVICES SUPPORTED\*:

- E2E encryption module with full tamper protection
- Factory or field install (including in-country) of E2E module
- Multiple Algorithm support
  - ETSI / IDEA algorithm supported
  - Support for National algorithm development
- Multiple simultaneous algorithms supported
- Over The Air Keying (OTAK) of encryption keys

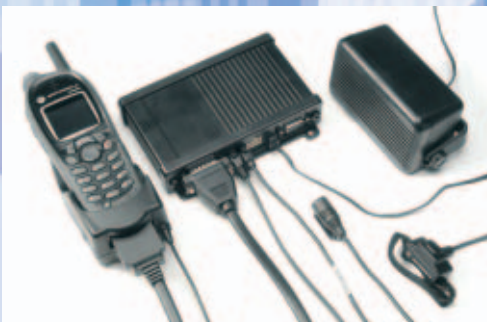
### USER SAFETY:

- Dedicated Emergency button
- New screensaver with customer logo option
- Talk Group lock
- Keypad lock
- Transmit Inhibit (TXI) – enhanced version
- 'Hot' Microphone emergency
- Ambience Listening
- Automatic Microphone Gain adjustment during 'Hot' microphone emergency
- Separate front mounted main loudspeaker and earpiece to prevent Acoustic Shock
- New 1 Watt audio amplifier and speaker
- Site Wide Call

### DATA/MESSAGING SERVICES SUPPORTED:

- Short Data Service (SDS)
- Alphanumeric Text Service (ATS)
- Predictive Text Entry (iTAP)
- Built-in database enquiry templates
- One-touch status messaging
- Packet data service
- Peripheral Equipment Interface (PEI) for external RS232 short and packet data devices
- New text message notification during calls
- Database enquiry during calls
- Ability to read, compose and edit text messages during calls
- Ability to send text message from busy Talk Group
- Automatic status message sent on entering/exiting Transmit Inhibit mode
- WAP support using packet data services via PEI

\*Future software upgrade



# MTH800

THE FUTURE OF TETRA, TODAY



**MOTOROLA**  
intelligence everywhere™

## **USER INTERFACE FEATURES:**

- Top Mounted Talk Group Selector and Volume Control with push function providing options:
  - Combined operation of Talk Group Selection, list navigation and volume control
  - Talk Group Selection only
  - Volume Control only
- Rugged bottom accessory connector
- 2 microphones
  - Top microphone for dispatcher calls
  - Bottom microphone for "one-to-one" calls
- Alphanumeric Talk Group search
- Loud/discreet audio mode toggle
- Keypad tones on/off
- Alert tones on/off
- Backlight options (disabled, automatic and manual)
- Wallpaper
- Multiple network support (100 network codes)
- Scan list edit via keypad
- Address book edit via keypad
- 5 pre-programmed languages (English, French, German, Spanish, Dutch)
- User definable display languages (ISO 8859-1 characters)
- 2 dedicated context sensitive menu softkeys
- 2 dedicated programmable function buttons
- One-touch functions on numeric keypad (10 entries)
- One-touch Phone / Private / PABX / Status / Talk Group / TXI / Database template / Text message template / Display flip
- Full access to menu system during calls
- Call history received/dialled lists
- Display flip (inverts text 180 degrees)
- Fast access to functions using rotary knob
- 2 font sizes (normal, zoom)

## **GPS LOCATION SERVICE:**

- Fully integrated single chip GPS receiver
  - Low current and high sensitivity GPS
  - Autonomous and assisted GPS support
  - Location Request/Response Protocol (LRRP) for positioning data transportation

- Patented Helical GPS antenna integrated into TETRA antenna
- Storage of position data in terminal for post processing etc.
- GPS disable option for special operations
- Authentication of GPS Location Service dispatchers
- Full programmable position update triggers including:
  - On request
  - Delta distance
  - Delta time
  - With status transmission
  - With message transmission
  - With site handover
  - On power-up/power down
  - On group attachment
  - TXI enable/disable
  - DMO/TMO switching
  - Low battery
  - Insertion/removal from vehicle adaptor
  - Full over the air programmability of all GPS Location Service parameters

## **OTHER:**

- Side connector for audio accessories and dock function, IP54
- Dedicated connector for digital car kit, programming, upgrading, packet and short data as well as Remote Speaker Microphone (RSM)
- VibraCall®
- Multiple software upgrade capability
- Programming software automatic logging of logistical information
- Customer Programming Software Codeplug Password enable
- Enhanced Mobility operation (including subscriber classes)
- Modeless Operation
- Favourite Talk Group
- Unified Address Book (contacts)



**Midgårdsvägen 20, S-973 34 LULEÅ**  
**Tel: 0920-22 24 10, Fax: 0920-22 24 20**  
**E-Mail: info@vianetab.se**  
**Gsm: 070-545 14 52, 070-545 17 81**

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 the accessories included in this document are subject to change without notice

MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office.

All other product or service names are the property of their respective owners. © Motorola, Inc. 2004