



## THR9i TETRA radio

### Safe and secure on the field

The THR9i TETRA handheld radio delivers high performance and usability for mission-critical voice and data communication. With IP65 protection, large QVGA display and high battery autonomy the THR9i is a solid and easy to use .

The THR9i offers clear sound and excellent audibility for voice calls. The enhanced user interface with the unique voice feedback provide extra user comfort. On the large display all critical information can be seen at a glance. For example, it shows if you are working in direct or network mode, alerts on low battery capacity, or network coverage is diminishing.

The large display also enables to view sharp images, as well as presenting mobile applications

in a clear visual format. Thanks to its enhanced memory and Java™ support, the THR9i can host customised applications.

The compact THR9i is easy to carry on a lapel or belt with a solid belt clip or a carrying case.

With an easy and reliable battery connection mechanism and two battery options, one with an extended capacity, the radio can keep even the heaviest radio user in contact throughout his shift.

The robust side connector is dedicated to audio accessories such as lightweight headsets or a robust speaker microphone, as well as for data. The radio's bottom connector is used for charging, for data connection and programming.

In critical situations it is important to know if additional resources are nearby. The GPS based 'Where are you?' feature shows on the radio display during a call how far your team members are. When you press the PTT, they will also see where you are. During emergency call the radio sends its coordinates.

The advanced Lifeguard solution, also known as man down alarm, is for better user safety. If the radio stops moving or remains horizontal for too long, it triggers a local alert. If the user does not respond, the radio automatically activates an alarm and sends its coordinates to a predefined destination .

# THR9i - Your perfect tool

## Frequency bands

- 330 – 360 MHz
- 380 – 430 MHz
- 450 – 470 MHz

## Power class

- Compliant with EN300392-2, power class 4
- Receiver class A
- RF power control, 4 steps of 5 dB

## Size

- Weight: 270 g
- Dimensions: 133 x 58 x 31 mm

## Durability

- Water, dust and shock resistant according to IP65 classification

## Display

- Full-color QVGA display
- Up to 262144 colors, 240 x 320 pixels
- Display backlight off by single key press
- Display reverse (180 degrees by single key press)
- Display texts in more than 25 languages
- Support for Latin, Arabic, Bulgarian, Chinese, Greek, Korean, Macedonian, Russian and Serbian
- Night vision mode

## Keypad / controls

- Alphanumeric keypad
- 4 navigation keys, 3 selection keys
- HI/LO key for loudspeaker control
- Power-on key, volume keys, red function key, duty key, fast menu key, group selector, back key

## GPS receiver

- Inbuilt A-GPS with internal memory
- Power save mode
- GPS activity indicator
- Sensitivity -162 dBm
- Simultaneous satellites up to 12
- Cold start accuracy (open sky)\*
  - 2,5 meters CEP
- Cold start TTFF, time to first fix (open sky)\*
  - < 30 seconds
- \* measured at -130 dBm
- Position information sending on request or on triggers (e.g. time, distance, status message)
- Position information sending during red key calls and public emergency calls
- Waypoints, waypoint guidance
- Showing caller's distance and direction during a call ('Where are you' feature)
- Saving own or caller's waypoint with one key press for Waypoint guidance
- Network-based terminal assisted positioning
- Support for ETSI location information protocol for TETRA (LIP)

## Call types

- Phone calls in TETRA & public networks
- Express and group calls in TETRA network
- TETRA emergency calls
- Public emergency calls (e.g. to 112)

## Group communication

- Up to 3 000 groups
- Up to 200 group folders
- Up to 400 groups per folder
- Dynamic Group Number Assignment (DGNA), up to 200 DGNA groups
- Up to 10 background groups
- Priority scanning
- Scanning list up to 59 groups
- Voice override in group calls (pre-emption)
- Late entry

## Direct mode features

- Up to 1500 DMO groups
- 500 DMO channels
- DMO gateway support
- Support for DMO repeater type 1A & 1B
- Scanning
- DMO individual call
- Red key call to DMO group
- Red key call to TMO within TETRA network coverage
- Public emergency call within TETRA network coverage
- DMO SCK encryption, encryption classes 2A, 2B and 2C
- DMO status messages
- DMO SDS messages
- ETSI TETRA type 1A DMO repeater operation (option)

## Messaging

- Status messages
- Text messages with concatenation
- Situation indicators to a predefined address
- Flash messages
- Call-out
- Predictive text input T9\*\*
- Unit alert (Selective alert)
- \*\*for most languages

## Security

- Lifeguard – an advanced man down alarm
- Authentication and Mutual authentication
- Air Interface Encryption (AIE) security classes:
  - Class 1: Clear
  - Class 2: SCK
  - Class 3: DCK/CCK
  - Class 3G: (requires TETRA SIM card)
- Phone and Security code
- Temporary disable/enable (Stun)
- Permanent disable (Kill)
- Transmission barring (Tx inhibit)
- Alert for out of network coverage
- Support for smart card based end-to-end encryption (option)

## TETRA SIM support (option)

- TSIM card with subscriber identification information (ITSI and authentication key K)
  - Easy to move subscriber information with TSIM card from one radio to another

## Wireless data

- IP packet data
- WAP 2.0 over TETRA
- XHTML color browser
- AT-command interface for applications
- Java™ MIDP 2.0 platform

## Interfaces

- Side connector for audio accessories and data
- Bottom connector for charging, carkit, programming and data
- Internal smart card slot
- Connector for external antenna (for carkit)

## Other features

- 500 phone book entries
- 8 profiles: General, Silent, Meeting, Outdoor, Pager, Active holder, Headset and Monophone
- Voice feedback
- Configurable main menu
- Configurable fast menu
- Configurable function keys
- Speed dialing (one-touch dialing, locations 2-9)
- DTMF tone dialing
- Load Directed Roaming (LDR)
- Energy economy
- Any key answer
- Duplex call barring
- Multiple network support
- Aliasing
- Clock synchronisation with network and/or GPS time
- Vibration alert
- Remote control through SDS or status
- Secondary Control Channel (SCCH)

## Battery

- Li-Ion 1900 mAh (premium battery)
- Li-Ion 4600 mAh (heavy duty battery)
- Estimated values for 1900 mAh battery:
  - Up to 19 h (5/5/90)
  - Up to 16,5 h (10/30/60)
  - Up to 25 h (standby)
- Estimated values for 4600 mAh battery:
  - Up to 36 h (5/5/90)
  - Up to 32,5 h (10/30/60)
  - Up to 48 h (standby)

## Note:

GPS usage affects the above mentioned times.

For more information please contact

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