

THR9 TETRA Handportable Radio



The robust and modern THR9 TETRA handportable radio delivers high performance and utmost usability and security in mission critical voice and data communication. With the large QVGA display, high battery autonomy and DMO repeater functionality, the THR9 provides a solid communication tool for most demanding operational duties.

The customisable features, Java™ application platform and extensive accessory offering make THR9 radio adapt to diverse applications and varying user needs, from basic voice communication to advanced end to end solutions. The sharp display, largest in TETRA, makes the THR9 suited for navigation and sharing users' positions, helping to improve situation awareness. The automatic position sending during emergency call enhance user safety.

The compact-size THR9 is easy to carry on users' lapel or on the belt, equipped with rugged or light-weight audio accessories upon need. The accessory range also includes two battery alternatives, several chargers and a car kit with automatic connection to external antenna.

THR9 TETRA Handportable radio

THR9 radio fulfils the following specifications for TETRA radio equipment in the temperature range of -20 °C to +55°C:

EN 300 392 V+D Air Interface

EN 300 394 V+D Conformance testing

Frequency Bands

380-430 MHz

Power Class

EN300392-2 compliant, power class 4

Receiver class A

RF power control, 4 steps of 5dB

Size

Weight: 270 g

Dimensions: 133 x 58 x 31 mm

Durability

Water, dust, and shock resistant according to IP55 classification

Display

Full-colour QVGA display

Up to 262144 colors with 240 x 320 pixels

Display texts in more than 20 languages

Support for Latin, Arabic, Greek, Chinese and Korean

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

Sensitivity -152 dBm

Cold start accuracy (open sky)*

- 5 meters (50% confidence level)

- 10 meters (95% confidence level)

*measured at -130 dBm

GPS activity indicator

Automatic position saving

Position information sending on request or on triggers (time, distance, status message)

Position sending during red key calls and public emergency calls

Waypoints, waypoint guidance

NMEA routing to serial port

Support for ETSI location information protocol for TETRA (phase 2)

Call Types

Phone calls TETRA network

Phone calls to public network

Express and group calls in TETRA networks

TETRA emergency calls

Public emergency calls (e.g. to 112)

Group Communication

Up to 3000 talk groups

Up to 200 talk group folders

Up to 400 groups per folder

Dynamic Group Number Assignment (up to 24 DGNA groups)

Up to 10 background groups

Priority scanning

Scanning list up to 59 talk groups

Voice override in group calls (pre-emption)

Late entry

Direct Mode Features

Up to 1024 DMO groups

60 DMO channels

DMO gateway and repeater support

Scanning

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

ETSI TETRA type 1A DMO repeater operation

Re-broadcast of group and emergency group calls on configured DMO groups

Messaging

Status and text messages

Flash messages

Predictive text input (T9)

Unit alert (selective alert)

Security

Authentication

Security classes:

Class 1: Clear

Class 2: SCK

Class 3: DCK/CCK

PIN/PUK code

Temporary disable/enable (stun)

Permanent disable (kill)

Alert for out of network coverage

Support for smart card based end-to-end encryption (option)

Wireless Data

IP packet data

WAP 2.0 over TETRA IP Packet Data

AT-command interface for applications

Java MIDP 2.0 platform

XHTML color browser

Other Features

Voice feedback

Configurable main menu and fast menu

Tx Inhibit

Speed dialling (one touch dialing)

Functional number keys

DTMF tone dialing

Any key answer

Vibrating alert

Duplex call barring

Multiple network support

Interfaces

Side connector for audio accessories

Bottom connector for charging, carkit and programming

Internal smart card slot

Connector for external antenna (carkit)

Battery

Lithium-Ion 2000 mAh and 2500 mAh