

TH9 TETRA radio

Power on hand

The TH9 is a ruggedized TETRA radio with IP65 protection class. Its high output power provides extended coverage. Excellent usability for mission-critical voice and data makes TH9 a powerful communication tool for heavy duty users.

The audio design of TH9 offers clear sound and excellent audibility for voice calls. A large QVGA display shows all critical information and visual icons clearly and sharply. User-friendly Night vision mode optimises the display for dark conditions.

The easy-to-use and intuitive user interface with the unique voice feedback provides extra user comfort. Java[™] support enables usage of customer specific applications. Bluetooth[®] wireless technology integrated in TH9 enables users to free themselves from wires when using accessories.

Additionally TH9 has two robust connectors: side connector for audio and data accessories and bottom connector for charging, data and programming.

The advanced Work alone and Lifeguard solution (man down) are for better user safety. When Lifeguard is activated and 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. Global Navigation Satellite System (GNSS) positioning chip inside TH9 brings extra benefits for the users. These include faster time-to-fix, more accurate and more reliable location information. This is achieved by increased sensitivity and simultaneous usage of two satellite systems (A-GPS, Glonass, BeiDou or Galileo).

In critical situations it is important to know if additional resources are nearby. The '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.



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Frequency bands

- 380 430 MHz
- 806 825 MHz, 851 870 MHz

Power class

Compliant EN300392-2 power class 3L (Power class 3L as an option)

- Receiver class A and B
- RF power control: 4 steps of 5 dB, and 1 step of 2,5 dB (option)

Size

- Weight: 284 g
- Dimensions: 133 x 58 x 31 mm

Durability

- Water, dust, according to IP65 class
- Free fall IEC 60068-2-32 Ed (2m)
- Vibration resistant IEC-60068-2-6, IEC 60068-2-64, Fh broad-band
- Solar radiation resistant IEC-60068-2-5
- Solar radiation resistant IEC-00068-2-3
 Temperature changes IEC-60068-2-14 Na
- Exposure to UV-C radiation

Display

- Transflective 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
- 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

GNSS receiver

- Inbuilt GNSS (A-GPS, Glonass, BeiDou/ Galileo) receiver with internal memory
- GPS, Galileo, Glonass/ BeiDou positioning and position information sending to infrastructure and other users
- 1-3 satellite system simultaneously in use
- Simultaneous satellites up to 32
- 72 channels receiver
- Sensitivity -167 dBm
- Accuracy 2,0 m meters CEP
- Cold start TTFF, 26 seconds
- SBAS augmentation systems (WAAS, EGNOS, MSAS, GAGAN)

GNSS features

- Automatic position saving
- Position information sending on request or on triggers (time, distance, status)
- Support for ETSI location information protocol for TETRA (LIP)
- Waypoints, waypoint guidance

Call types

- Phone calls in TETRA & public networks
- Express and group calls in TETRA network
- TETRA emergency calls

AIRBUS

• Public emergency calls (e.g. to 112)

Network features

- Multiple network support
- ISI support
- Clock synchronisation with network and/or GNSS time
- Transmission barring (Tx inhibit)
- Load Directed Roaming (LDR)
- Alert for out of network coverage

Direct mode features

- Up to 1500 DMO groups
- 500 DMO channels
- TMO-DMO via Gateway communications support, but not as a Gateway itself
- DMO repeater type 1A and 1B communications support, and acting itself as type 1A repeater (optional)
- 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 message, also during a call and even via Repeater/Gateway
- DMO SDS messages
- Network monitoring while in DMO

Group communication

- Up to 3 000 groups
 9999 group selection shortcuts
- Up to 200 group folders
- Up to 400 groups per folder
- Up to 200 talk group sub folders with 3 layersDynamic Group Number Assignment
- (DGNA), up to 200 DGNA groups • Up to 20 background groups
- Up to 20 background gr
- Priority scanning
- Scanning list up to 60 groups
- Voice override in group calls (pre-emption)Late entry

Messaging

- Status messages
- Text messages with concatenation
- Situation indicators to a predefined address
- Flash messages
- Call-out
- Predictive text input T9 for most languagesUnit alert (Selective alert)
- Unit alert (Selectivity)
 SDS3 polling

Personal Safety

- Lifeguard an advanced man down alarm
 Where are you? Showing caller's distance
- and direction during a call
- Work Alone
- Position sending during red key calls and public emergency calls
- Configurable emergency button
- Night vision mode

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Security

For more information please contact

e-mail: marketing@securelandcommunications.com

- Authentication and Mutual authentication
- Air Interface Encryption (AIE) security classes:

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- Class 1: Clear
- Class 2: SCKClass 3: DCK/CCK

· Phone and Security code

Permanent disable (Kill)

TETRA SIM support (option)

encryption (option)

Wireless data

IP packet data

WAP 2.0 over TETRA

XHTML color browser

and data (option)

Interfaces

and data

USB flashing

Usability

Java™ MIDP 2.0 platform

• Bluetooth® v2.1 EDR for audio

Bottom connector for charging,

carkit, programming and data

Interface for automatic carrying

Internal smart card slot

• 500 phone book entries

with 2 500 unique numbers

Headset and MonophoneAliasing - call routing service

Configurable function keys

Speed dialing (one-touch dialing,

· Remote control through SDS or status

(2000 mAh, 3000 mAh and 5500 mAh)

BLN-17L 3000mAh

28h

24h

36h

Note: GPS/Vibra/Lifeguard usage affects the times

mentioned above. Variation in operation times will

occur depending on network settings and usage.

BLN-6L

46h

40h

60h

• Secondary Control Channel (SCCH)

• Three battery options Li-Ion

BLN-5i 2000mAb

19h

16,5h

25h

Voice feedback

locations 2-9)

Energy economy

Any key answer

Vibration alert

Battery

Battery/ Usage

5/5/90

10/30/60

Standby

Duplex call barring

DTMF tone dialing

• 8 profiles: General, Silent, Meeting,

Configurable main menu and fast menu

Outdoor, Pager, Active holder,

mode recognition

• Temporary disable/enable (Stun)

Class 3G: (requires TETRA SIM card)

· Support for smart card based end-to-end

TSIM card with subscriber identification

information (ITSI and authentication key K)

Easy to move subscriber information with

TSIM card from one radio to another

AT-command interface for applications

· Side connector for audio accessories