

THR880i Light

Robust TETRA handportable radio
with superior usability



The EADS THR880i Light is a reliable TETRA handportable radio designed for safe and easy voice and data communication. It combines phone and radio capabilities.

The phone side features a colour display, a convenient keypad and a user-friendly menu for making phone calls and sending messages. With 65,536 colours, the sharp, active, high-resolution display provides information at a glance in varying light conditions. The XHTML colour browser and IP-packet data facility offer easy access to data services.

Heavy duty performance

Designed for use in harsh conditions, the THR880i Light has IP55 class protection, which means that it is capable of surviving splash water, dust and the knocks that are unavoidable in the field. The radio side has a robust group selector that is designed for efficient two-way communication. Voice feedback is used to prompt and confirm operations, making it possible

to use the radio without looking at it and freeing the user to concentrate on the task at hand. The high quality loudspeaker gives dependable audibility – even in noisy environments.

Customized communication

The THR880i Light is fully customisable to suit user- and organisation-specific needs. Both the main menu and fast menu of the radio can be optimised to offer quick and easy access to those operations that the user needs most frequently. Furthermore, the number keys of the radio can be used as shortcuts to certain pre-programmed functions, such as switching to direct mode or sending a status message to a particular destination.

The THR880i Light radio offers the highest level of security and its smart card -based solution enables the smooth introduction of end-to-end encryption, adapting to customers' operational needs and allowing implementation of customer-specific encryption algorithms.

THR880i Light TETRA handportable radio

EADS TETRA terminals fulfill 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

- 380-400 MHz
- 806-825 MHz, 851-870 MHz

Power class

- EN 300392-2 compliant, power class 4
- Receiver class A
- RF power control, 4 steps of 5dB

Size

- Weight: 247 g
- Dimensions: 147 x 57 x 35 mm

Durability

- Water and dust resistant according to IP54 / IP55 classification

Display

- High-resolution, active TFT colour display
- Up to 65,536 colours with 130x130 pixels
- Display texts in more than 15 languages
- Support for Latin, Arabic, Greek, Chinese and Korean

Keypad / controls

- 2-sided user interface
- 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

Call types

- Phone calls in 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 1300 talk groups
- Up to 200 talk group folders
- Up to 48 talk 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 180 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

Messaging

- Status and text messages
- Flash messages
- Unit alert (selective alert)

Security

- Authentication
- Mutual authentication
- Security class:
Class 1: Clear
Class 2: SCK
Class 3: DCK/CCK
- Phone code / PUK code
- Temporary disable/enable (Stun)
- Alert for out of network coverage
- Support for smart card based end-to-end encryption (option)

Wireless data

- IP packet data
- XHTML colour browser (WAP 1.2.1 stack)
- AT command interface for applications

Other features

- Voice feedback
- Configurable main menu
- Configurable fast menu
- Tx inhibit
- Speed dialing (one touch dialing, locations 2-9)
- Functional number keys
- DTMF tone dialing
- Any key answer
- Duplex call barring
- Multiple network support

Battery

- Internal Battery BLN-4D Li-Ion 1880 mAh
- Talk time up to 2 - 4,5h (duplex)
 - Use time up to 11 - 25h (5/5/90), up to 8 - 17 h (10/30/60)
 - Standby time up to 25 - 40h
 - Charging times 2,5 - 3,5h (ACP-12, power off)

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