

# TH1n pocket-fit TETRA radio Small size, big performer

The TH1n TETRA radio offers all the best elements of a PMR handset in a slim design that makes it easy to carry. Yet it still packs a full set of features, being robust and delivering a loud and clear voice quality to satisfy even the most demanding users.

TH1n is the first in a completely new class of pocket-sized TETRA radios. Its classy, elegant design, featuring a metallic finish and well-formed, rubber-coated sides, sets it apart from conventional professional mobile radios. The large, bright colour display, familiar from many other Airbus Defence and Space radio models, makes critical information available in a clear, easy-to-read format. TH1n is ideal for different users, even those who had difficulties to find a small and light enough radio, and those who wear business clothes or light uniforms rather than weatherproof gear.

The TH1n form-factor allows it to be carried in new ways. Slipped into a neck carrying case, pocket clip holder or shoulder holder, it can also be carried in belt and lapel-mounted holsters. When placed in carrying case with a magnetic sensor, the radio' automatically changes to carrying mode – by setting both the loudspeaker and the top microphone.

Equipped with appropriate accessories, the slim-line TH1n is also great for covert use. Lightweight TH1n is a fullyfeatured professional radio, for anyone who needs the most functional and robust tool. IP65 protection guarantees reliable performance in demanding environments and the class 3L output power (1,8 W) provides extra reach when network coverage is at its limit or when direct mode operation (DMO) is used. The repeater feature in DMO enables teams to build a voice connection between users who might otherwise be out of reach of each other.

And despite its slim profile, the TH1n's two batteries provide use times comparable with any other TETRA radio on the market.



# TH1n TETRA radio



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

#### Power class

Compliant EN300392-2 power class 3L

Receiver class A

 $\bullet$  RF power control, 4 steps of 5 dB, and 1 step of 2,5 dB

# Size

- Weight: 160 g
- Dimensions: 116 x 55 x 19 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
- Nightvision mode
- · Grid menu as default at power-on

### Keypad / controls

- Alphanumeric keypad
- 4 navigation keys, 3 selection keys
- Combined Duty key HI/LO key

• Power-on key, red function key, fast menu key, combined volume control and group selector with back key

#### **GPS** receiver

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- A-GPS receiver 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 , time to first fix (open sky)\*
   < 30 seconds</li>
- \* 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)

For more information please contact

#### Call types

• Phone calls in TETRA & public networks

Wireless data

Interfaces

recognition

Other features

Voice feedback

DTMF tone dialing

Duplex call barring

· Energy economy

Vibration alert

Multiple network support

· Clock synchronisation with network and/or

· Remote control through SDS or status

Secondary Control Channel (SCCH)

Premium Battery BLN-10, Lithium-Ion

1590 mAh (included in sales packages)

3180 mAh (as an accessory)

- Up to 15,5 h (5/5/90)

- Up to 13 h (10/30/60)

- Up to 20 h (standby)

- Up to 27 h (5/5/90)

- Up to 22 h (10/30/60)

- Up to 36 h (standby)

operation times.

Heavy Duty Battery BLN-11, Lithium-Ion

· Estimated values for 1590 mAh battery:

· Estimated values for 3180 mAh battery:

Charging time 2-3 h (ACP-12, power off)

and usage. Energy economy increases

Note: GPS/Vibra/Lifeguard usage affects the

above mentioned times. Variation in operation

times will occur depending on network settings

Any key answer

Aliasing

GPS time

Battery

· IP packet data

• WAP 2.0 over TETRA

XHTML color browser

Java<sup>™</sup> MIDP 2.0 platform

AT-command interface for applications

· Side connector for audio and data

· Bottom connector for charging

· Connector for external antenna

· Internal smart card slot

· Configurable main menu

Configurable fast menu

Configurable function keys

Speed dialing (locations 2-9)

accessories, programming and carkit

· Interface for automatic carrying mode

- · Express and group calls in TETRA
- 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

encryption (option)

- Class 3: DCK/CCK
- 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

Airbus Defence and Space / Landshuter Str.26 / 85716 Unterschleissheim / Germany / T: +49 (0) 89.3179-0 / F: +49 (0) 3179-4640 Airbus Defence and Space / MetaPole / 1, bld Jean Moulin / CS 40001 / 78996 Elancourt Cedex / France / T: +33 (0)1 61 38 50 00 Airbus Defence and Space / Hiomotie 32 / 00380 Helsinki / Finland / T: +358 10 4080 000 / e-mail: securenetworks@cassidian.com