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Tactilon® Dabat

Smart. Strong. Secure.

For more information, see www.dabat.com or please contact

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AIRBUS

Tactilon® Dabat

World's first smartphone
and TETRA radio in one device



Tactilon Dabat is the world's first smartphone with a TETRA radio inside. This represents a huge leap in TETRA evolution.

Tactilon Dabat may look like a regular fully rugged smartphone, but it is ground-breaking: it also offers the special multi-purpose push-to-talk buttons familiar from Airbus TETRA radios. It is therefore comfortable, even in prolonged use.

The large touch-screen is ideal for sending messages and it is designed also for gloved touch. A real push-to-talk button makes it easy for the user to talk to TETRA groups.

Tactilon Dabat offers the functionality once found only on TETRA radios so that it can operate on any standard TETRA network on the 380–430 MHz frequency band.

Tactilon Dabat is powered by a 4600 mAh changeable, long-lasting and rechargeable battery. This rugged device is rated both IP65 and IP67.

Audio processing functions let users hear others loud and clear, while mapping apps and GPS ensure that the control room will know the user's position.

Tactilon Dabat has a still and video camera for capturing the action, and TETRA groups for sharing images in a controlled, safe way.

The back side connector lets the device be connected to the dashboard of a vehicle.

Tactilon Dabat Hybrid Roaming performs an extension of the Tetra radio coverage by switching to IP coverage through the Tactilon Agnet 800 solution. This enables a seamless network change extending the Tactilon Dabat's operational coverage. The security of the solution is preserved as all Tactilon Agnet traffic is securely protected via secure VPN client.

See more at www.securelandcommunications.com/hybrid-roaming



Network

- TETRA: 380 – 430 MHz, Compliant EN300392-2 power class 3L
- 2G bands:
 - B3 – 1800 MHz
 - B8 – 900 MHz
- 3G bands:
 - B1 – 2100 MHz
 - B8 – 900 MHz
- LTE bands:
 - B3 – 1800 MHz
 - B7 – 2600 MHz
 - B20 – 800 MHz
 - B28 – 700 MHz
 - B40 – 2300 MHz
- UMTS/HSxPA, HSPA+, DC-HSPA+, LTE
- LTE Cat 4, data transfer up to 150Mbit/s
- WIFI a/b/g/n/ac: 2.4 & 5.0GHz

Body

- Large PTT button
- Emergency key
- 2 x functional buttons
- +/- buttons
- Power on/off
- Weight: 375g (with Antenna and battery)
- Dimensions: ~155 x 79 x 28 mm with a standard battery



Platform

- OS: Android
- Chipset: Qualcomm snapdragon 652
- CPU: Octa-core ARM Cortex up 1,8GHz
- GPU: Adreno 510
- Internal memory: 16 GB Flash, 3 GB RAM
- Card slot: microSD up to 128 GB
- GPS with A-GPS, Glonass, Beidou
- 2 SIM card slots: TETRA and 3GPP network
- Sensors: accelerometer, gyrometer, proximity, compass
- Ambient Light Monitoring

Audio

- Top microphone
- Front- down microphone
- Noise reduction
- Earspeaker
- Loudspeaker, top location (close to ear in shoulder carrying),
- Clear speech output
- High sound pressure

Connectors

- Bluetooth v4.2, HS,EDR, BLE
- NFC for provisioning
- Micro USB: full/high, OTG, v2.0
- 3.5mm audio jack (four connectors, CTIA standard)
- Backside connector: Data, Charge, Mount

Security

- Airbus Android hardening
- Secure boot
- Trusted execution environment
- VPN always on
- Enforced content encryption for internal memory and SD card
- Accessory whitelisting
- Wifi network whitelisting
- Dedicated HW for TETRA voice and messaging
- TETRA air Interface Encryption (AIE) security classes:
 - Class 1: Clear
 - Class 2: SCK
 - Class 3: DCK/CCK
- Application control and signing
- Temporary disable/enable (Stun)
- Permanent disable (Kill)
- TETRA end to end encryption with smart card (option)

Display

- Capacitive, multi-touch
- Gloves usage enabled
- Usable in wet environment
- Resolution: 720 x 1280 pixels
- Colors: 16.7 M
- Bright display: up to 480cd/m²
- Optimized readability in daylight

Camera

- Back camera: 16 MP, LED Flash
- Front camera: 5 MP

Durability

- IP65 and IP67 certified
- Withstands drops from a height of 150cm according to MIL STD 810G standard
- Tested in 200 consecutive 1m tumbles
- Operating temperature: -20°C to +55°C*
- Storage temperature: -40°C to +85°C
- Robust touch panel
- Protected for humidity, salt, vibration, ESD, Solar radiation, liquids, heat cycles, mechanical pressure

Safety

- Man down alarm
- Emergency key
- Textiled buttons for eyes-free operations
- PTT, functional buttons, volume accessible by one hand

* Performance may be impacted at temperature extremes



Smart backside connector enables data transmission, charging and mounting in vehicle.

Software

- Android platform applications including browser, email, camera, video player and gallery
- TETRA status
- TETRA phone
- TETRA talk groups, up to 3000 in 200 folders
- TETRA contacts, up to 700
- TETRA messaging
- TETRA settings
- UI Indications for Signal strength, Network availability, Missed calls, unread messages and E2EE status
- Alert for out of network coverage, messaging and incoming calls
- Configuration managed by TAQTO® tool
- Tactilon Agnet (Option)
- Support for mobile device and application management (option)
- Industry leading apps certified with the product

TETRA voice

- Talking group selection
- Making and receiving group calls
- Making and receiving individual calls
- Making and receiving express calls
- Making and receiving emergency calls
- Making and receiving direct mode calls
- Priority scanning
- Late entry

TETRA messaging

- Sending and receiving status messages
- Sending and receiving SDS text messages
- Sending and receiving Flash messages
- Sending and receiving SDS and status messages also in direct mode

TETRA network

- Direct mode
- Trunk mode
- Sharing location over SDS/LIP
- Call log view
- Priority scanning
- Voice override in group calls (pre-emption)

Accessories

- Micro USB charger
- Standard capacity battery
- High capacity battery
- Vehicle mounting and charging system
- Belt carrying case
- Shoulder carrying case
- Strap
- Industry leading accessories for
 - Headsets
 - Loudspeakers
 - External microphones
 - External PTT

Battery

- Standard : Li-Po 4600 mAh
- High capacity: Li-Po 6900 mAh
- Changeable battery
- Estimated time with standard battery (TETRA 10/30/60): 16h
- Estimated stand by time: 36h

See information about Tactilon Dabat application developer programme at www.securelandcommunications.com/smartwisp