

A close-up photograph of a man with short dark hair and glasses, looking down at a walkie-talkie he is holding in his right hand. The background is a plain, light-colored wall. The overall tone is professional and focused.

Tactilon[®] Dabat SC with Super Connectivity

Super Smart. Strong. Secure.

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AIRBUS



Tactilon® Dabat

World's most advanced hybrid smartphone

Tactilon Dabat with Super Connectivity (SC) is the world's most advanced hybrid device. It is a mission critical smartphone and a TETRA radio in one. Public safety and critical enterprise users alike will benefit from this device that works in both narrowband PMR/LMR and broadband LTE networks.

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

Super connectivity

Tactilon Dabat with Super Connectivity is a device capable of roaming in two ways.

Hybrid Roaming means that Tactilon Dabat SC can use a TETRA network and a broadband network. With the Tactilon Agnet 800 app, Tactilon Dabat SC can move from using the TETRA network to using an LTE broadband network or vice versa. Communications over Tactilon Agnet are protected by a secure VPN client.

In other words, users can communicate as long as there is either TETRA or LTE network service available. They are not restricted to stay within TETRA coverage.

Smart Roaming means that the device can use two different broadband networks, for example a private LTE network and a public broadband network. This makes it possible to design a tailored solution for broadband network use, which can bring savings while ensuring the best operational efficiency.

Tactilon Dabat SC is the solution for super connectivity. Users appreciate the trusted availability of secure communication services that Tactilon Dabat SC provides.

Facts and figures

The large touch-screen is ideal for sending messages and it is designed for gloved touch. A real push-to-talk button makes it easy to use group communications.

Tactilon Dabat SC is a mission critical smartphone that also offers the functionality once found only on TETRA radios. It can operate in any standard TETRA network on the 380–430 MHz frequency band and in public and private LTE networks.

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

The Ergo Plugin solution makes Tactilon Dabat SC comfortable to use inside a vehicle or a control room. When the device is set into the Ergo Plugin kit, the user will enjoy a tailored user experience. The device is so easy to use in the kit that the user can focus on important duties and not on handling the device. And when in the kit, Tactilon Dabat SC can function as a LTE router.

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
- Dual SIM/Dual Standby
- 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 Oreo
- 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 for 3GPP network
- 1 micro SIM card slot for TETRA 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
- Voice Feedback

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

- 5 inch 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

- Lifeguard (Man down alarm)
- Emergency key
- Textured buttons for eyes-free operations
- PTT, functional buttons, volume accessible by one hand

* Performance may be impacted at temperature extremes



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