

Bittium

Bittium Tough Mobile 2 C

Highest Level of
Security for Mobile
Communications



Bittium Tough Mobile™ 2 C provides classified, governmental level security for professionals with the highest security requirements.

The unique multilayered software and hardware based security is complemented with the latest commercial features and modern smartphone usability. With two separated operating systems (dual-OS), both professional and personal use is secure, isolated and easy.

Certified for CONFIDENTIAL level (NCSA-FI, TL III).

FOR MORE INFORMATION, PLEASE CONTACT:
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One device

for professional and personal use.



Dual-OS

Two hardened OS:
• Bittium Secure OS
• Google Android 10



Military grade durability

IP67 and MIL-STD-810G features



Long device lifespan

enabling the integration and certification of governmental services.



Trusted design & manufacturing

Made in Finland. Device and manufacturing audits possible for certification purposes.



Unique multi-layered security

keeping data safe at all times.

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Specifications

Two Operating Systems

- Bittium Secure OS for CONFIDENTIAL level use
- Android™ 11 for Personal use
- Both operating systems support Multicontainer feature

Chipsets

- Qualcomm® Snapdragon™ 670
- Dedicated Secure Element

Memory

- 4GB LPDDR4 RAM
- 64GB eMMC
- MicroSD expansion slot up to 256GB

Display

- 5.2" Full HD (1080 x 1920) sunlight readable display
- Glove and wet usable capacitive touchscreen

Bittium Secure OS

- Dual boot; full data and secure element separation
- Secure data folder for classified documents and other data files. Data available when screen lock is open.
- Excellent usability and quick two-factor authentication with NFC token and admin configurable authentication interval, available in Secure and Personal modes
- Hardened, configurable and restricted cellular network security (call, SMS/MMS, IMS, VoLTE, aGPS, SIM application toolkit)
- Hardened Linux kernel
- Secured local connectivity (Bluetooth/WiFi/NFC/USB)
- Automatic system cleanup of secure data
- Device can be configured to be used only in Bittium Secure OS Confidential mode, using full device storage capacity
- Always on VPN
- Secure shutdown after lost network connectivity based on configurable time

Bittium Secure Suite™ (included)

- Bittium SafeMove® Device Management
- Bittium SafeMove® Mobile VPN
- Secure push service for private networks
- Enterprise App Library
- Log server for collecting audit trail
- Crossnote notifications between Secure and Personal modes

Hardware Based Security

- Trusted boot with HW and SW integrity validation
- Authentication and cryptographic services for applications based on the tamper-proof secure element

- Disk encryption protected by secure element's authentication and security design
- FIPS 140-2 compliant HW cryptography
- Hardware-based privacy mode
 - Microphones, cameras and Bluetooth disabled
 - Reduced sensor accuracy
- User credentials and encryption keys stored to hardware secure element
- Non-rootable device firmware
- Tamper-proofed to prevent data theft and hardware manipulation
- Always-on security monitoring, non-dependent on battery level

Always Up to Date

- Frequent updates throughout the device lifecycle

Professional Communication

- 3GPP Rel12
- QCI classes
- LTE Broadcast (eMBMS)

LTE and Bands

- 3GPP Rel12
- Dual SIM dual VOLTE (DSDV)
- FDD/TDD Cat13/5, DL 400Mbit/s, UL 75 Mbit/s
- IMS, VoLTE, CA
- FDD: 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 20, 25, 26, 28, 29, 30, 66
- TDD: 38, 39, 40 (34, 41 optional)
- 3GPP rel8, HSPA+, DL 42 Mbit/s, UL 5.76 Mbit/s
- Band configuration: B1, B2, B4, B5, B8
- 850/900/1800/1900 MHz

Complementary Radios

- Wi-Fi 802.11 a/b/g/n/ac (2.4 Ghz and 5 Ghz)
- BT5.0, NFC
- *U-NII-3 Wi-Fi channels are not supported

Physical Buttons

- Privacy mode activation
- Emergency button (programmable)
- PTT/PTV (programmable)
- Power/wake-up
- Volume up and down

Positioning (configurable)

- aGPS/Glonass/Galileo/iZat™

Sensors

- 3D gyroscope
- 3D accelerometer
- 3D magnetometer
- Proximity sensor
- Ambient light sensor
- Barometric sensor



Imaging and Video

- 12MP autofocus rear-facing camera
- 5MP front-facing camera
- Rear-facing LED flash
- 4K and Full HD video

Audio

- High-quality front-facing dual speakers (109dB@5cm SPL)
- Multi-microphone active noise cancellation

Interfaces

- 3.5mm audio connector
- USB-C with Displayport, RNDIS and OTG
- Dual nano-SIM (DSDS) and MicroSD
- Wireless display (Miracast) compliant

Battery

- Embedded 3000mAh Li-Ion

Mechanical

- Size 77.5 x 148.3 x 9.65mm
- Weight 194g
- IP67 water and dust resistant
- MIL-STD-810G shock and drop resistant

Accessories

- Specialized accessories available for mission critical and tactical environments

Temperature Range

- -20°C...+55°C (operational)

Certifications

- CE, FCC, ISED, GCF, NOM, NCSA-FI (TL III)

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