

# Bittium

## Bittium Tough Mobile 2

### New Standard for Ultra Secure Mobile Communications



**Bittium Tough Mobile™ 2** has been built for professionals with the highest cyber security requirements.

The unique multilayered software and hardware based security is complemented with the latest commercial features and modern smartphone usability. With the Multicontainer feature both professional and personal use is secure, isolated, and easy.

Bittium Tough Mobile™ 2 is specifically designed for maximizing security without compromising usability.

FOR MORE INFORMATION, PLEASE CONTACT:

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One device

for professional and personal use.



Unique multilayered security

keeping data safe at all times.



Secure platform

for partners with own cyber security applications and solutions.



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.



Can be certified

to RESTRICTED, CONFIDENTIAL and beyond (national/EU/NATO).



## Operating System

- Android™ 9 Pie
- Google apps pre-installed

## Chipsets

- Qualcomm® Snapdragon™ 670
- Powerful 64bit 8-core CPU
- Qualcomm® Adreno™ 615 high-performance GPU
- 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

## 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
- 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
- Trusted design and manufacturing in Finland
- Two-factor authentication (optional)

## Bittium Secure Suite™ (optional)

- Bittium SafeMove® Device Management
- Bittium SafeMove® Mobile VPN
- Remote attestation of HW and SW integrity
- Secure push service for apps to reach devices without risks of public clouds
- Enterprise App Library for making available precisely the apps your workforce needs
- Log server for collecting an undeniable audit trail from your devices and server components
- OTA firmware updates

## Professional Communication

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

## LTE and Bands

- 3GPP Rel12
- FDD/TDD Cat13/5, DL 400Mbit/s, UL 75 Mbit/s
- IMS, VoLTE, CA
- DSDS LTE+LTE in idle
- FDD: 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 20, 25, 26, 28, 29, 30, 66
- TDD: 38, 39 (34, 40, 41 optional)

## UMTS/HSPA and Bands

- 3GPP rel8, HSPA+, DL 42 Mbit/s, UL 5.76 Mbit/s
- Band configuration: B1, B2, B4, B5, B8

## GSM/GPRS/EDGE Bands

- 850/900/1800/1900 MHz

## Complementary Radios

- Wi-Fi 802.11 a/b/g/n/ac (2.4 Ghz and 5 Ghz)
- BT 5.0, NFC

## Physical Buttons

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

## Positioning

- aGPS/Glonass/Galileo
- iZat™ positioning framework

## 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 dual LED flash
- 4K and Full HD video

## Audio

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

## Interfaces

- 3.5mm audio connector
- USB-C
- Displayport via USB-C
- Dual nano-SIM (DSDS) and MicroSD via 3-in-2 combo reader
- Wireless display (Miracast) compliant

## Battery

- Embedded 3000mAh Li-Ion

## Mechanical

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

## Inbox Accessories

- Stereo headset
- Charger
- USB-C cable
- SIM tray tool
- User guide

## Temperature Range

- -20°C...+55°C (operational)

## Certifications

- CE, FCC, ISED, GCF
- Security certifications possible