



Purpose-built for mission-critical comms

Bittium Tough Mobile™ 3 Tactical is a secure and rugged smartphone made for mission-critical communications.

The Android™-based 5G smartphone combines purpose-built tactical features and usability, while offering easy deployment and seamless operation across public and tactical networks. Tough Mobile 3 Tactical can act as an intelligent routing device between military radio networks and sensors, and supports BMS applications for situational awareness.

Together with quantum-safe software it enables absolute security for mitigating ever-increasing cyber threats.

Designed and manufactured in EU.

For more information, please contact:
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Tactical usage

Complete solution for military use with dedicated tactical features, complementary software, and accessories.



Security built in layers

Preventing physical and software attacks for keeping data safe at all times.



Military-grade resilience

Designed to withstand extreme conditions - shock, vibration, water, dust and temperature.



Certified security

Designed for NATO and EU certifications for classified collaboration.



Quantum-safe communications

Bittium SafeMove® Mobile VPN and SafeMove® Comms provide quantum-safe, NATO Restricted-level communications

Operating system

- Android™ 16 (or newer)
- AOSP, without Google applications pre-installed
- Multicontainer

Chipsets

- Qualcomm® Dragonwing™ Q-6690 FP4

Memory

- 12GB/256GB + MicroSD support

Display

- 6.32" FHD+TFT sunlight readable
- Glove and wet usable capacitive touchscreen
- Strengthened cover glass designed to improve drop performance (Corning® Gorilla® Glass Victus® 2)

Tactical features

- USB tactical radio support
- Radio bridge
- Compatible with BMS applications
- Easy deployment to tactical and sliced networks
- Tactical sensor routing
- Radio hardware kill-switch
- Tactical outfit (optional)
- Pocket and glove mode
- Full desktop mode
- Connectivity customization
- Multiple Ethernet support
- USB Tethering with VPN
- Quick access buttons for mission-critical applications
- Add-on battery for doubled battery capacity during missions
- Integration to military hubs

Hardware-based security

- Trusted boot with HW and SW integrity validation
- Hardware Stealth Mode
- Authentication and cryptographic services for applications based on the tamper-proof secure element
- Disk encryption protected by secure element's authentication and security design
- 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
- Two-factor authentication with NFC dongle

Connectivity

- 5G sub-6 with SA/NSA
- Private and public networks
- eSIM
- Bluetooth® 5.4
- Wi-Fi 7 802.11 a/b/g/n/ac/6e/7
- GPS, A-GPS, Glonass, Galileo, Beidou
- USB-C 3.1 with Desktop Mode
- Type C audio
- NFC
- USB tactical radio support
- Radio hardware kill-switch

Interfaces

- 16-pin external accessory connector
- USB-C with OTG and analog audio support
- Displayport via USB-C
- Dual nano-SIM (DSDS) (DSDA) and MicroSD via 3-in-2 combo reader
- Wireless display (Miracast) compliant

Sensors

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

Physical buttons

- Emergency button (programmable)
- PTT/PTV (programmable)
- Power/wake-up (with fingerprint sensor)
- Volume up and down

Cameras

- 50MP Autofocus and 50MP Ultra Wide Autofocus rear cameras
- 32MP front camera
- Laser Autofocus
- Rear-facing dual LED flash + RED LED
- High brightness red LED as torch for night view

Battery

- Embedded 4500 mAh Li-Ion

Mechanical

- Size 165.6 x 77.9 x 11.55 mm
- Weight 270 g
- IP68 and IP69K water and dust resistant
- MIL-STD-810H shock and drop resistant



Temperature range

- -20°C...+55°C (operational)

Certifications

- Designed for NATO and EU certifications

Complementary software

Bittium SafeMove®

- SafeMove Mobile VPN for quantum-safe, always-on connectivity
- SafeMove EMM for device and application management
- SafeMove Comms for quantum-safe, end-to-end encrypted messages, voice, video, and group calls

More details available in separate datasheets.