

Bittium

Bittium Tough Mobile Secure and Strong LTE smartphone



Bittium Tough Mobile smartphone is designed and built for Security, Public Safety, and other professional markets. The sleek and rugged Bittium Tough Mobile provides superior security and compliance with carrier-grade feature requirements. Key features include hardware based security, a powerful quad-core LTE-Advanced processor, Android 5.1, configurable button for PTT, military grade mechanics, and support for LTE Band 14. Bittium also provides product customization, solution integration and other services to address unique customer requirements.

FOR MORE INFORMATION, PLEASE CONTACT:

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Secure

World's most secure mobile platform with a hardened Android OS.



Powerful

2.3GHz quad-core processor provides performance for the most demanding applications with low power consumption.



Global

9 LTE frequencies in a single device configuration provides global 4G connectivity.



Robust

Industrial design and mechanical packaging to meet high environmental and durability demands. IP67 water and dust resistance, MIL-STD-810G shock resistance.



Proven

Certified for RESTRICTED level data storage, processing and transmission together with the Bittium Secure Suite.

Bittium Tough Mobile

Specifications

Qualcomm Snapdragon 801

- › Quad-core Krait CPU 2.3 GHz
- › Adreno 330 3D graphics accelerator
- › Hexagon QDSP 600 MHz

Operating System

- › Operating system: Android™ 5.1 Lollipop with upgradeability
- › Available with or without Google Mobile Services

Memory

- › 2 GB LPDDR3 RAM
- › 16 GB eMMC Mass Storage
- › Micro SD expansion slot

Security

- › Secure boot with HW-enabled integrity
- › Runtime integrity
- › Application permission firewall
- › Secure data storage for user credentials and encryption keys
- › Encrypted mass memory
- › Tampering detection
- › PGP encrypted email
- › FIPS 140-2 compliant HW cryptography
- › Secure Suite (optional)
 - › Mobile VPN
 - › Device management
 - › Remote attestation
 - › Enterprise app library
 - › Log server
 - › Secure push service



Interfaces

- › USB 3.0 with fast charging
- › Wireless display (Miracast compliant)
- › Dual-SIM slots

Battery

- › 2420 mAh Li-Ion

Wireless Connectivity

LTE

- › 3GPP rel10 (LTE Advanced)
- › FDD Cat4, DL 150 Mbit/s, UL 50 Mbit/s
- › IMS, VoLTE-ready
- › Band configuration: B2 (1900), B3 (1800), B4 (1700), B5 (850), B7 (2600), B13 (700), B14 (700), B17 (700), B20 (800)
- › Carrier Aggregation: supported

UMTS/HSPA

- › 3GPP rel8, HSPA+, DL 42 Mbit/s, UL 5.76 Mbit/s
- › Band configuration: B1 (2100), B2 (1900), B4 (1700), B5 (850), B8 (900)

GSM/GPRS/EDGE

- › 850/900/1800/1900 MHz

OTHER RADIOS

- › Wi-Fi 802.11 a/b/g/n/ac
- › BT 4.0
- › NFC

Display

- › 5" Full HD (1080 x 1920) LCD
- › Glove-usable capacitive touch, functional also in wet conditions



Push-to-talk (PTT)

- › Configurable button for PTT, camera, etc.

Sensors

- › 3D Gyroscope
- › 3D Accelerometer
- › 3D Magnetometer
- › Proximity Sensor
- › Ambient Light Sensor
- › Barometer

Imaging and Video

- › 8 MP with Autofocus and LED Flash
- › 2 MP for front facing applications
- › Full HD video capture and playback

Audio

- › High-performance speakers
- › Multi-microphone active noise cancelling
- › Earpiece and microphone
- › 3.5 mm headset connector

Positioning

- › aGPS/Glonass
- › iZat™ positioning framework

Mechanical

- › Size 141 mm x 75,5 mm x 13,5 mm
- › Weight 180 g
- › IP67 water and dust resistant
- › MIL-STD-810G shock resistant

Operating Range

- › -20 °C ... +55 °C

Certifications

- › RESTRICTED level certification for data storage, processing and transmission together with the Bittium Secure Suite.
- › FCC, CE, PTCRB, GCF

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