

# Bittium Tough Mobile

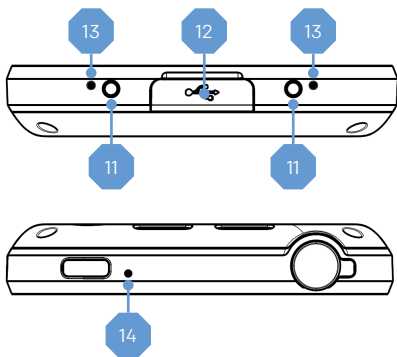
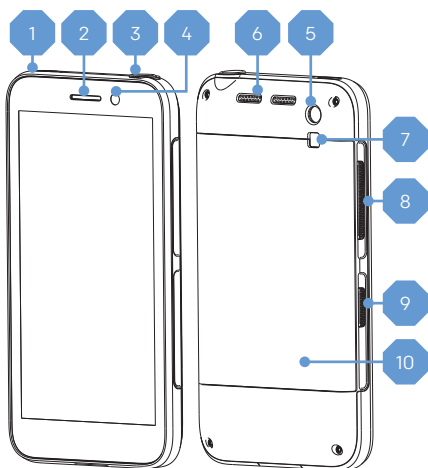
Quick Start Guide



**Bittium**

# Device at a glance

- 1 Power key / status indicator LED / emergency key
- 2 Earpiece and auxiliary microphone
- 3 Headset and protective cover
- 4 Front camera
- 5 Back camera
- 6 Loudspeakers
- 7 Flash LED
- 8 Volume key
- 9 Programmable key
- 10 Battery cover
- 11 Battery charging connectors
- 12 USB 3.0 port and protective cover
- 13 Main microphones
- 14 Noise cancellation microphone



The ambient light sensor and proximity sensor are located next to the camera on the front of Tough Mobile. The micro USB 3.0 port is located on the bottom of Tough Mobile.



**Please read this quick guide carefully before using the device. Bittium Tough Mobile is water and dust resistant (IP67).**

**In order to maintain the water and dust resistance the battery cover, the USB connector cover and the headset cover must be properly closed and undamaged.**

**Intentional dropping and underwater immersion of Bittium Tough Mobile should be avoided. Bittium Tough Mobile is not designed for underwater use or use for example in shower. Purposeful use of the device in these environments will result in a void of the warranty. For more info on Bittium Tough Mobile Ingress Protection see [www.bittium.com/BittiumToughMobile](http://www.bittium.com/BittiumToughMobile).**

## Box contents

Bittium Tough Mobile sales package contains the following items:

- Battery
- Charger, with US, UK and EU adapters
- Micro USB cable
- 3.5 mm Headset
- Quick Start Guide
- Plastic wedge for opening battery cover

Box contents and the appearance of the accessories may vary.

# Operating system and applications

Bittium Tough Mobile uses the Android operating system. This Quick Start Guide contains only highlights and Bittium Tough Mobile specific features and functionalities. For a full Android User Guide please refer to:

**[www.bittium.com/BittiumToughMobile](http://www.bittium.com/BittiumToughMobile).**

Bittium Tough Mobile may have pre-installed 3rd party applications. Visit the above address for more information.

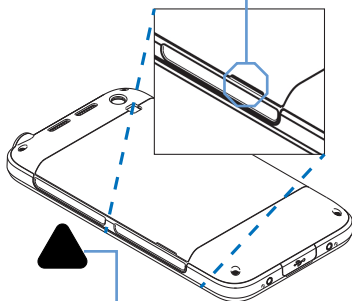


**Verify that Bittium Tough Mobile is switched OFF before removing the battery and inserting SIM card(s).**

## Getting started

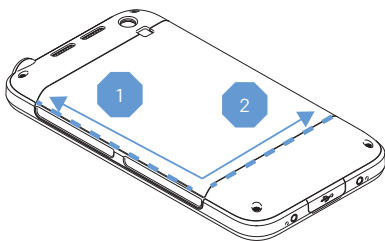
To start using Bittium Tough Mobile first remove the battery cover and insert the SIM card(s). To open Bittium Tough Mobile battery cover insert the plastic wedge to the slot between the battery cover and the body at the lower left.

Battery cover opening slot



Plastic wedge

Pry the cover carefully open by sliding the wedge along the side (1) and then along the bottom (2). Cover should “pop-up” with a moderate force.



Visit [www.bittium.com/BittiumToughMobile](http://www.bittium.com/BittiumToughMobile) for a video on how to remove and attach the battery cover.

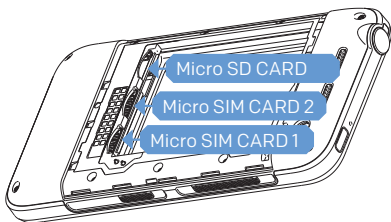


**Battery cover is intentionally tight to meet IP67 requirements. Do not use anything metallic or sharp like a screwdriver or a knife to open it!**

**Use only micro-SIM cards in Bittium Tough Mobile.**

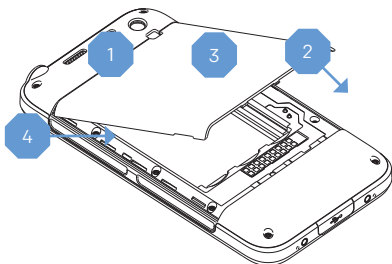
Insert your primary micro SIM card in the SIM card slot 1. If you have a secondary micro SIM card, insert it into SIM card slot 2. Insert your micro SD card into the SD card slot. After the SIM and SD cards are inserted, insert the battery. Close the battery cover.

To remove a micro SIM card, use the plastic wedge to pull out the SIM card.



Battery cover must be properly closed to maintain water and dust resistance.

- 1 Align the upper edge of the battery cover notches in place.
- 2 Snap lower edge notches in place.
- 3 Squeeze the battery cover in place.
- 4 Verify that all notches are closed on all sides by squeezing around the battery cover perimeter with your thumbs.



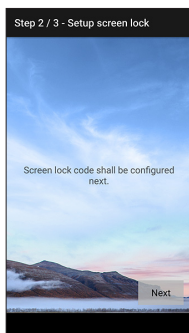
Prior to using Bittium Tough Mobile the battery should be fully charged using the charger and the USB cable provided in the sales package.

Press the power key to power up the device. Once Bittium Tough Mobile has powered up, follow the on-screen instructions to set up the device using the Security Wizard.



# Security wizard

Bittium Tough Mobile is equipped with a Security Wizard that is launched during the initial power up of the device. Security Wizard is used to set up a number of different device settings. Follow the on-screen instructions by first setting a screen lock code.



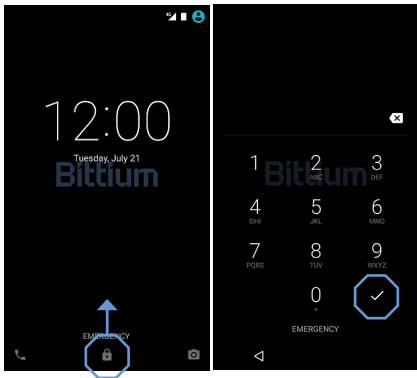
The number of set up steps may vary depending on the security features of the device.

## Lock screen

Switching off the display locks Bittium Tough Mobile. Bittium Tough Mobile also locks after a period of inactivity. Switch the display off by pressing the power key once. The display can be switched on by pressing the power key or programmable key.

To open the screen lock and to access the home screen, follow the steps below:

1. Swipe the lock upwards.
2. Enter screen lock code.
3. Tap the "check" mark ✓.

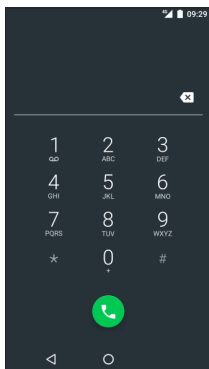


## Emergency dialer

The Emergency Dialer can be entered directly from the lock screen by tapping the text “EMERGENCY”.

To place an emergency call, dial the emergency number and tap the green icon.

To return back to the lock screen, tap the arrow near the top left corner.



## Encrypted email

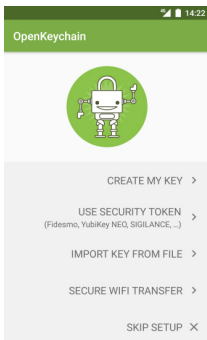
Bittium Tough Mobile supports email encryption using OpenPGP. PGP-related key management, encryption, decryption and key signing are performed using the OpenKeyChain application.

To set up the email encryption, the security keys must be created or imported for the cipher.

NOTE: Bittium Tough Mobile does not have the OpenKeyChain application pre-installed. If you are using a GMS (Google Mobile Services) variant, download the application from Google Play and install it by tapping the OpenKeyChain icon in the application grid and follow the instructions. In non-GMS variants the OpenKeyChain application can be made available via Bittium Secure Suite.

To create or import keys, open the OpenKeyChain application and follow the step-by-step instructions.

More information about OpenKeyChain can be found at **<https://www.openkeychain.org/>**



# Bittium SafeMove

Bittium SafeMove Mobile VPN remote access solution provides always-on, secure and seamless connectivity for mobile workers. With Bittium Safemove Mobile VPN you have an easy and secure access to the corporate internal network.



NOTE: The use and configuration of this application requires server components and a separate license. Please contact SafeMove sales for information ([safemove.sales@bittium.com](mailto:safemove.sales@bittium.com)).

## Software update

Use software update to manually check for available software updates and install them on your device.


1. Go to Settings -> About phone -> System updates.
2. Tap 'Check Now' to check if an update is available.

You can also set the schedule for OTA (over-the-air) updates by tapping Check OTA updates. Options are: Disabled, Daily, Weekly and Monthly.

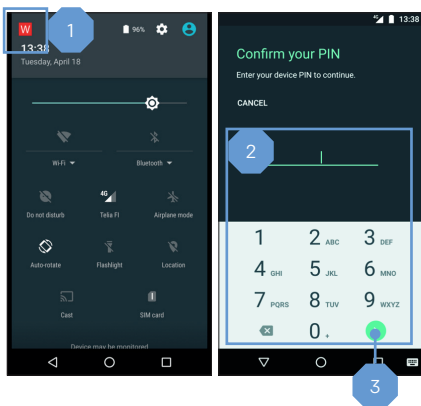
# Erasing user data

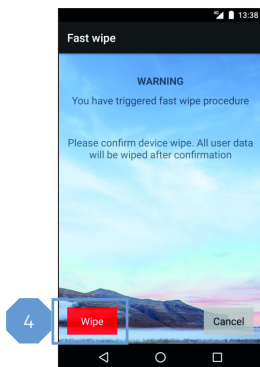
Bittium Tough Mobile has a Fast Wipe function for erasing all of the device's user data fast and easily.

To activate Fast Wipe, open the Quick Settings panel by swiping down once with 2 fingers when device screen is unlocked or once with one finger when device screen is locked.

1. Tap "W" on the upper left corner of the screen.
2. Enter Device Lock Code (PIN)
3. Tap 
4. Tap "Wipe" on the lower left corner of the screen.

Now the device will erase all of its user data.





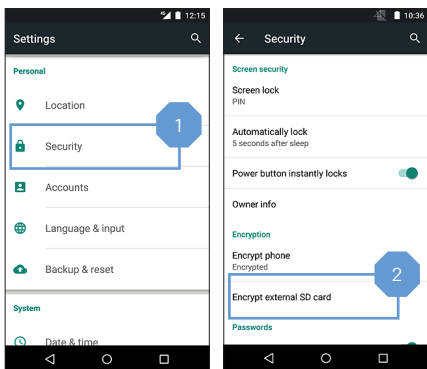
NOTE: If the device has been provisioned for example SafeMove use, the device must be provisioned again after the wipe.

## Device encryption

Bittium Tough Mobile supports file system encryption for both the device internal flash memory and a micro-SD card. Internal flash memory is encrypted by default.

To enable micro-SD card encryption select “Security” from the device Settings menu and Encrypt SD card from the Security settings menu. Follow the instructions provided on screen.

Bittium Tough Mobile battery must be sufficiently charged or connected to a charger in order to proceed with the encryption set up.



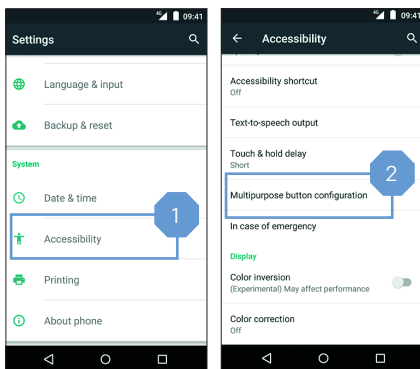
## Programmable key

The Programmable key can be configured via the Settings menu for the following features:

- Operate the Push-to-Talk (PTT) functionality.
- Enter sleep or wake the device from sleep.
- Select active SIM card (SIM card 1 or SIM card 2).
- Launch camera application.
- Launch a defined application.

To access Programmable Key configuration select "Accessibility" from the device Settings menu and "Multipurpose button configuration".

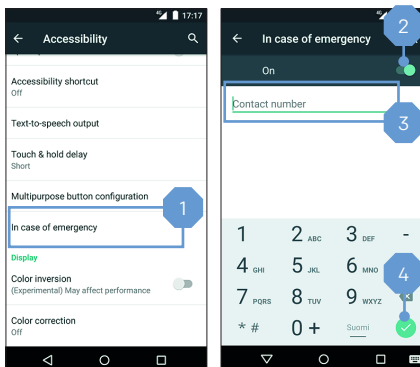




## In case of emergency

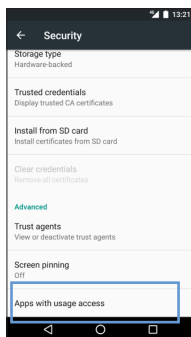
When the 'In case of emergency' function is switched on, you can call the pre-defined emergency contact number by pressing the power key for a long time (>3 seconds).

- 1 Select 'In case of emergency' in the Accessibility menu.
- 2 Switch on the function.
- 3 Add the contact number you want to call in case of emergency.
- 4 Tap the 'check' mark.



## Application permission firewall

With Bittium Tough Mobile you can restrict access permissions of applications to phone data. This allows you to control the data which applications may access. Change the application permissions via the Security menu.



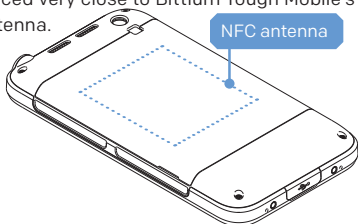
## Tamper detection

Bittium Tough Mobile is equipped with hardware tamper detection. An intrusion, other than opening the battery cover, will result in a notification from the Security Wizard. The Security Wizard will notify the user that the device integrity has possibly been compromised.

Upon detection of a tampering event, the user data, including encryption keys, will be erased. Tamper Detection is also triggered when Bittium Tough Mobile battery has drained and the phone has lost all power. Once Bittium Tough Mobile has been re-charged and powered up again, the Security Wizard will ask the user whether the device should be shut down or the Tamper Detection warning should be ignored.

## NFC

The NFC antenna is located in the battery cover. For security reasons, to avoid information leakage during NFC operation, NFC has been designed so that it only operates when another NFC device is placed very close to Bittium Tough Mobile's NFC antenna.



## USB

Bittium Tough Mobile has a micro USB3.0 connector and it is backward compatible with micro USB2.0. You can use the standards-compliant micro USB2.0 devices with Bittium Tough Mobile. Connect the micro USB2.0 connector to the wider slot of the micro USB3.0 connector.

## Important health and safety precautions

Please use Bittium Tough Mobile with the following safety precautions:

### **WARNINGS**

Only use the batteries, antennas, and chargers approved by Bittium Wireless Ltd. The use of non-Bittium approved batteries, antennas, and chargers may be dangerous.

Permanent hearing loss may occur if earphones or headphones are used at high volume for prolonged periods of time.

Do not use the battery or charger if it has a visible defect, or if you suspect it is damaged.

Do not allow children to play with Bittium Tough Mobile since it contains small parts that can become detached and create a choking hazard.

Use 5GHz WLAN only indoors in Japan, USA and Canada.

## CAUTIONS

The material used in the display is glass. The display can break if your handset is dropped or if it receives a significant impact. Do not use the device if the screen is broken or cracked as this may cause an injury.

Any modification to this product is prohibited and will void the warranty. The opening of the unit and use of the components for purposes not otherwise authorized by this document, including any use in airplanes or any other Aviation application, is prohibited and will void the warranty.

Allow only authorized personnel to service the device and its accessories. Unauthorized service will void the warranty.

The device may become warm when using your device for prolonged periods of time, such as talking on the device, charging the battery or browsing the web. In most cases, this condition is normal and therefore should not be interpreted as a problem with the device.

Do not expose device surfaces to sun lotion, mosquito repellent or equivalent.

## NOTES

When driving, check and obey the laws and regulations on the use of mobile phones in the area where you drive. If you are going to use your phone while driving, always pay full attention to driving and use a handsfree solution, if available. The law in many countries requires the use of a vehicle hands-free solution while driving.

Always create a backup of data you want to keep (such as contacts and calendar notes) before sending your device for service.

## Important customer information

Bittium Tough Mobile is a wireless device, containing a radio transmitter and receiver which emit radio frequency energy during its use. Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the radio signals from a wireless phone.

Do not use Bittium Tough Mobile near medical equipment without permission. A minimum of six (6) inches should be maintained between Bittium Tough Mobile and an implantable medical device, such as a pacemaker or implantable cardiac defibrillator in order to avoid potential interference with the medical device. Persons having implanted medical devices should follow instructions from the manufacturer of the medical device for safe use within proximity of wireless devices. Wireless phones may also interfere with some hearing aids. In the event of such interference, consult the service provider or call customer service to discuss alternatives.

Radio signals may interfere with improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the vehicle manufacturer or its representative regarding your vehicle. Aftermarket electronics which have been added to the vehicle should also be checked.

Any modification of Bittium Tough Mobile is prohibited. Only authorized personnel should service Bittium Tough Mobile and its accessories.

Only use software updates provided by Bittium. Accessories for Bittium Tough Mobile should be either purchased from or approved by Bittium.

Only use the battery specified by and provided

by Bittium in Bittium Tough Mobile. Do not short-circuit the battery. Do not use the battery with a charging system which has not been approved by Bittium.

Turn Bittium Tough Mobile OFF in any facility where posted notices so require.

To avoid interfering with blasting operations turn Bittium Tough Mobile OFF when in a blasting area or in areas posted: "Turn off two-way radio". Obey all signs and instructions.

Turn Bittium Tough Mobile OFF when in areas with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Areas with a potentially explosive atmosphere are often, but not always, marked clearly. Potential areas may include fueling areas (such as gas stations); below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles (such as grain, dust, or metal powders); and any other area where you would normally be advised to switch off your vehicle engine.

An emergency call can be made only within a service area. For an emergency call, make sure that you are within a service area and that the device is switched on.

The device does not necessarily meet all specifications in extreme temperatures. Battery capacity (use time) is limited in low temperatures, and the device performance may be limited in high temperatures.

The device is equipped with intelligent battery charging control that limits battery charging in extremely hot and cold temperatures to ensure battery safety and extended operating life.

## Limited warranty

For a period of 1 year from the date of purchase, Bittium Wireless Ltd. ("Bittium") warrants this Product, including all accessories provided in the sales box, against defects in materials or workmanship. If this Product is determined to be defective within the 1 year warranty period, Bittium will repair the Product or replace it with a new or refurbished Product, at its option, at no charge to the customer, except as set forth below.

This warranty does not cover cosmetic damage, or device failure caused by liquid damages, or damage due to misuse, abuse, negligence, accident, modification or disassembly of any part of the Product. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than a facility authorized by Bittium to service this Product. For more info on Bittium Tough Mobile Ingress Protection see

**[www.bittium.com/BittiumToughMobile](http://www.bittium.com/BittiumToughMobile).**

To obtain warranty service, you must receive a Return Authorization from Bittium and ship the Product, at your expense, to Bittium's authorized service facility. You must ship the Product in either its original packaging or packaging affording an equal degree of protection. This warranty does not cover customer instruction, set up, or set up adjustments or network coverage problems.

**Please see**

**[www.bittium.com/BittiumToughMobile](http://www.bittium.com/BittiumToughMobile) for warranty support.**



# Notes





## **Published by:**

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For the latest Quick Start Guide see:

**[www.bittium.com/BittiumToughMobile](http://www.bittium.com/BittiumToughMobile)**

Guide is also available in your device: Settings ->  
About phone -> User guide -> Quick user guide.

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