



Bittium Tough VoIP Field Phone™ 2



Bittium Tough VoIP Field Phone 2™ is a robust VoIP phone that has been designed for tactical networks and provides PTT functionality.

The Field Phone 2 provides IP telecommunication with Bittium Tough VoIP Service™ or 3rd party SIP servers. The phone's multiple network and peripheral interfaces, several powering options and accessories ensure easy deployment and applicability to different use cases.

VoIP connectivity can be achieved via field wire, Ethernet or even over Wi-Fi whereas wireless local connectivity, USB, and Serial/Audio interfaces extend possibilities for various peripheral connectivity needs. Optionally, wireless connectivity can be disabled or removed to ensure radio silence in all situations.

Benefits

- › Small and rugged form factor – easy to install anywhere
- › Extensive connectivity with field wire, LAN, USB, Wi-Fi, wireless local connectivity
- › Several powering options: Bittium Tactical Power Pack™, DC, PoE, or USB
- › Interoperability with Bittium Tough VoIP Service™ or 3rd party SIP servers

Use case examples

- › Rugged VoIP phone in military vehicles or in the field
- › Chained VoIP telephony with field wire
- › Hands-free use with Bittium Tough Comnode Audio Extension™

FOR MORE INFORMATION, PLEASE CONTACT:

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Use Case Examples

For Soldiers on the Field

- › Rugged device
- › Wireless connectivity
- › Easy powering
 - › Bittium Tactical Power Pack
 - › USB power banks

For Vehicle Intercom

- › Perfect for vehicle installations thanks to small form factor
- › Utilizing vehicle powering (VDC 12–32 V)

For Communications Shelters & Command Posts

- › Robust device with high-quality audio
- › Hands-free use with audio extension accessory
- › Powering for example with Power over Ethernet (PoE)

For Chained VoIP Telephony

- › Field wire (SHDSL) or Ethernet
- › With Bittium Tough VoIP Service or 3rd party SIP server

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Specifications

Features

- › Supports Bittium Tough VoIP Service™ (TVS) functions either by direct dialing codes or from the graphical user interface
- › Connectivity to 3rd party SIP servers
- › Automatic or static IP address configuration
- › Support for several subscriber features (e.g. call transfer, call waiting, put-on-hold)
- › Push-to-talk (PTT)
- › Subscriber presence status
- › Instant messaging
- › Support for local / remote LDAP phonebook
- › Linux firewall
- › PIN code
- › Keylock (configurable)

Device Management

- › GUI / Web user interface for device configuration
- › Easy and quick setup of multiple devices
- › Single or parallel SW update

Device Interfaces

- › **Status LED**
- › **Display**
Large, TFT LCD full color display
Size: 3.5 inches diagonal
Resolution: 320 x 240 pixels
- › **Keypad**
2 function keys below the display,
12 number keys
- › **Buzzer**
Buzzer for ringtone

Physical Interfaces

- › **Power**
12 – 32 VDC
- › **SHDSL**
Two ITU-T G991.2 (G.SHDSL) interfaces, push-and-release connector for field wire
- › **LAN**
Two 10BASE-T/100BASE-TX interfaces with PoE 802.3af input
- › **Audio/serial**
Audio interface for connecting handset/headset incl. two serial ports and push-to-talk signals
- › **USB**
USBv2.0 host port and USB power input

Wireless Interfaces

- › GPS
- › WLAN client 802.11 bgn
- › Wireless local connectivity for headset (Hands-Free Profile)

Technical Specifications

- › **Signalling protocols**
SIP (RFC 3261) over
UDP/TCP/TCP-TLS SDP (RFC 4566)
Presence event package (RFC 3856)
- › **Voice signaling**
RTP/RTCP (RFC 3550)
Telephone events (RFC 2833)
- › **Phonebook**
LDAP (RFC 451)
- › **Audio codecs**
G.711, G.729AB, GSM, Speex, Opus, MELPe 2400
- › **Environmental and EMC standards**
MIL-STD-810G
MIL-STD-461F
MIL-STD-1275E

- › **Power supply**
Power consumption 7 W (device), max. 5 W SB power feed
Power input 12 – 32 VDC, alternative power inputs are LAN (PoE) and USB
- › **Operating temperature range**
- 40 °C / +55 °C
- › **Ingress protection class**
IP67, also for open connectors
- › **Dimensions**
183 x 90 x 30 mm
(without handset and handset holder)
- › 201 x 100 x 102 mm
(with handset holder and handset mounted in the holder)
- › **Weight**
580 g
(without handset and handset holder)
- › 1000 g
(with handset and handset holder)
- › **Material**
Surface treated aluminum alloy/plastic
- › **Declaration of Conformity**
CE

Accessories

- › 9400088 Bittium Tough Comnode Audio Extension™
- › Bittium Tactical Power Pack™
 - › 9305310 Adapter Power Pack
 - › 9304758 Battery SDR HH
 - › 5501070 Comnode Power Pack interface cable
- › 9304639 Handset
- › 9304602 Handset holder
- › 9100658 Headset
- › 9304911 Mounting Plate (wall/table)
- › 9304967 Mounting Plate (wall/table) with audio extension
- › 9101670 Equipment Bag
- › Cables

Field Phone 2 product code: 9404768

Item is subject to export control law (EU2021/821): 5A002.a.2 dual-use item.