EXTERNAL DEVICES & ACCESSORIES
EXTERNAL DEVICES & ACCESSORIES
NOTICE

© 2014-2018 TASSTA GmbH. All rights reserved. Without limiting the subsequent reservation of rights, no part of this publication may be reproduced in any form whatsoever or used to make any derivative work without prior written approval by TASSTA GmbH.

All rights and obligations with respect to the subject matter hereof shall be governed by the agreement between you and TASSTA GmbH or its authorized agent. Except as expressly set forth in any such agreement, TASSTA GmbH makes no representations or warranties relating to its products or services, expressed or implied, and expressly disclaims all other warranties, including without limitation any warranty of non-infringement, fitness for a particular purpose or merchantability and any warranty relating to non-interruption of use, security from unauthorized access or freedom from viruses, errors or omissions. No person is authorized to make any other representation or warranty on behalf of TASSTA GmbH.

TASSTA GmbH reserves the right to update or otherwise revise this publication and/or the product(s) and/or the program(s) described in this documentation at any time, without obligation to notify any person of such revisions or changes.

For further information contact TASSTA GmbH or your local reseller.

TASSTA GmbH
Kniestrasse 27
30167 Hannover
Germany

TASSTA Inc.
Atlanta Tech Village
3423 Piedmont Rd NE
Atlanta, GA 30305, USA

TASSTA Technologies FZE
DSO-THUB-G-D-FLEX-G118,
Dubai Silicon Oasis, Dubai,
United Arab Emirates
# VERSION HISTORY

<table>
<thead>
<tr>
<th>Version</th>
<th>Amendment Date</th>
<th>Author</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td>01.02.2017</td>
<td>akh, as</td>
<td>Intermediate version</td>
</tr>
<tr>
<td>3.1</td>
<td>20.02.2017</td>
<td>akh, as</td>
<td>Devices added</td>
</tr>
<tr>
<td>3.2</td>
<td>21.02.2017</td>
<td>akh, as</td>
<td>4.4 added</td>
</tr>
<tr>
<td>3.3</td>
<td>16.03.2017</td>
<td>akh, as</td>
<td>BV6000s changed to BV6000</td>
</tr>
<tr>
<td>3.4</td>
<td>30.03.2017</td>
<td>akh</td>
<td>new contacts</td>
</tr>
<tr>
<td>3.5</td>
<td>05.05.2017</td>
<td>akh</td>
<td>4.5 chapter</td>
</tr>
<tr>
<td>3.6</td>
<td>09.11.2017</td>
<td>akh</td>
<td>3.4 Savox BT Com added</td>
</tr>
<tr>
<td>4.0</td>
<td>05.09.2018</td>
<td>akh, pk</td>
<td>text update, AINA device added, some mobile devices deleted</td>
</tr>
<tr>
<td>5.0</td>
<td>09.11.2018</td>
<td>akh, pk</td>
<td>Sonim x8, Boxchip S700A added</td>
</tr>
</tbody>
</table>
# LIST OF ABBREVIATIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMR</td>
<td>Digital Mobile Radio</td>
</tr>
<tr>
<td>E2EE</td>
<td>End-To-End Encryption</td>
</tr>
<tr>
<td>EMC</td>
<td>Enterprise Management and Control</td>
</tr>
<tr>
<td>GPS</td>
<td>Global Positioning System</td>
</tr>
<tr>
<td>GPRS</td>
<td>General Packet Radio Service</td>
</tr>
<tr>
<td>GUI</td>
<td>Graphical User Interface</td>
</tr>
<tr>
<td>IP</td>
<td>Internet Protocol</td>
</tr>
<tr>
<td>LAN</td>
<td>Local Area Network</td>
</tr>
<tr>
<td>LPS</td>
<td>Local Positioning System</td>
</tr>
<tr>
<td>LTE</td>
<td>Long Term Evolution - a telephone and mobile broadband communication standard</td>
</tr>
<tr>
<td>LWP</td>
<td>Lone Worker Protection</td>
</tr>
<tr>
<td>MPT</td>
<td>MPT 1327 - industry standard for trunked radio communications networks</td>
</tr>
<tr>
<td>NFC</td>
<td>Near Field Communication</td>
</tr>
<tr>
<td>iOS</td>
<td>IPhone OS developed and distributed by Apple Inc.</td>
</tr>
<tr>
<td>OS</td>
<td>Operating System</td>
</tr>
<tr>
<td>PMR</td>
<td>Professional Mobile Radio</td>
</tr>
<tr>
<td>PTT</td>
<td>Push-To-Talk</td>
</tr>
<tr>
<td>TCP</td>
<td>Transmission Control Protocol</td>
</tr>
<tr>
<td>TETRA</td>
<td>Trans-European Trunked Radio</td>
</tr>
<tr>
<td>UDP</td>
<td>User Datagram Protocol</td>
</tr>
<tr>
<td>VoIP</td>
<td>Voice over IP</td>
</tr>
<tr>
<td>WLAN</td>
<td>Wireless Local Area Network</td>
</tr>
</tbody>
</table>
TASSTA AT A GLANCE

TASSTA is an IP-based technology with a sub-second performance which offers fast and reliable communication all over the world. TASSTA is a series of integrated technologies to offer a single solution: to enable a more effective communication through well-known features like Push-to-Talk, Messaging, Data Service and GPS location tracking.

TASSTA includes over 13 years of engineering, experience in design, construction, and maintenance of PMR networks like MPT, TETRA, DMR. TASSTA is designed to meet any potential customer demands since it allows you to create a business environment right away, using its data services. Depending on the customer requirements, it can easily turn the mobile devices into a cost-effective, portable communication terminal, with an unlimited coverage area which includes a GPS tracking function ability and much more.

TASSTA solution is based on mobile clients (Android, iOS), desktop client (Windows OS) and TASSTA server applications with a great number of features and services. Furthermore, all TASSTA components are designed in a modular approach which can be easily integrated with other PMR and communication networks or data services.

The application range of TASSTA is quite varied. It can be used in public security services, logistics, traffic control systems, public transportation services, construction projects, public or special events and others.

INTRODUCTION

T.Flex is a TASSTA application running on Windows OS (T.Flex Desktop)* and touchscreen mobile devices powered by two of the most popular mobile operating systems – Android and iOS (T.Flex Mobile). It works over LAN, WiFi or/and any mobile network (e.g. 3G, LTE) while allowing users a maximum connectivity at the lowest price. VoIP technology implemented in the T.Flex ensures that users can connect and communicate with each other from every corner of the world. Besides LAN, WiFi and 3G, the T.Flex is designed for communicating under poor conditions and thus is able to keep significant communication quality on Dial-Up, GPRS and/or EDGE (2G) networks.

T.Flex Mobile contains all the basic features like the group and individual calls, messaging and history, map and GPS positioning. The combination with T.Rodon (TASSTA Command and Control Center solution) extends T.Flex with a set of additional tools for organizing and managing your business. These are issue management system (EMC), GPS and Indoor Tracking, Geofencing, Alarming, etc.

T.Flex Mobile has a friendly graphical user interface (GUI) and is flexible in operation. In other words, the T.Flex Mobile GUI is specially designed for compact mobile touch screen devices and grants users maximum flexibility to deal with the application.

T.Flex uses TCP flow for signaling and data transfer while UDP is used for voice data transfer. In a case of any limitation on UDP flow (e.g. limited by the network provider), the T.Flex clients can also work through TCP**.

(*) - T.Flex Desktop application is T.Rodon (Command and Control Center) with its basic functionality.

(**) - T.Flex clients can work through TCP. For that you have to activate “Force TCP for the client” in T.Commander.
3

EXTERNAL WIRELESS DEVICES

Many applications require you to talk while moving. If you are driving the car you need the PTT in your hand. This option provides a great PTT device connected to T.Flex client over Bluetooth or cable. The operation by external PTT devices brings the TASSTA Android Client on the highest professional level of operation and provides great flexibility because it makes communication more comfortable and easier.

T.Flex supports working with different wired external devices, Bluetooth devices, hardware devices, buttons and different accessories:

- CODAWheel
- ECOM devices
- Delking devices
- Savox devices
- AINA devices
- and many others.

The mic is active on the smartphone when PTT is pressed. The DelKing PTT does not translate voice from mic. This issue is related to PREFERRED BLUETOOTH DEVICE activation in settings.
The Savox Clarity provides advanced security and immunity through a unique three point system consisting of a combination of encryption, field manipulation and modulation scheme. In addition to the interference-free features offered in the industry, the Clarity neck-loop also offers Savox interception free communication patterns.

The Clarity comes with a wireless PTT in form of a key fob with Savox’s unique proprietary and most secured wireless signaling pattern, the SavoxGuard™. The key fob offers verbal as well as non-verbal tone communication. Used with a mobile phone, Clarity offers Savox’s Triplex™ communication platform (patent pending) providing full-duplex, half-duplex, and non-verbal tone communication capabilities.
The Savox SEP-110 combines a neck-loop, a microphone and a barrel PTT button. The loop transmits incoming communication to a Savox RCR earpiece. Through a wire the SEP-110 can be either connected to a radio or mobile phone. Connected to a radio the SEP-110 offers half-duplex PTT communication. Connected to a mobile phone it offers toggle mode half-duplex communication and full-duplex call answering capabilities.
COVERT RADIO VEST

A covert surveillance vest in breathable material that houses radio and covert radio accessory cables. Designed for use by covert surveillance operatives.

VENDOR / MODEL
- SAVOX
- UCH-100

KEY BENEFITS
- Full covert vest
- Houses radio, accessory wiring and dipole antenna
- Available in sizes medium, large, extra large and double extra large
- Available in black and white
3.4 BLUETOOTH HEADSET

The Savox Promate BTH-101 Bluetooth Headset is designed to operate hands-free within range of compatible Bluetooth radios and mobile phones. It is light, ergonomic, robust (to IP55) and comfortable to wear over long periods of time. It can be worn with goggles and glasses, and the function buttons have been designed so it can be operated with protective gloves.

This PTT Bluetooth Headset is ideal for the professional user who needs a Push-to-Talk over cellular headset on a daily basis in varying professional surroundings – for example in industry, maintenance and transportation.

This headset offers both full duplex communication capability (for normal phone calls), and Push-To-Talk capability.

VENDOR / MODEL
- SAVOX
- BTH 101

KEY BENEFITS
- Robust design to IP55 standard
- Push-to-talk over cellular functionality in a lightweight headset
- Large buttons for use with gloves
- Can be used with goggles and glasses
- Extremely comfortable for wearing over long periods of time
- Can be worn on the right or left ear
- Supports standard full duplex phone calls

TECHNICAL DATA
- Weight: 20 g
- Sizes: 62 x 32 x 16 mm
- Talk time: up to 8 hours
- Standby time: up to 200 hours
- Charge time: up to 2 hours
- Ingress protection IP 55
- Drop test tolerance: to 2.0 M
- Battery: Lithium ion polymer rechargeable
- Charger connector: Micro USB
- Earpiece type: Semi in ear
- Microphone: Dual mic, built-in
- Speaker: Built-In
- Bluetooth version: 3.0, class II
- Supported bluetooth profiles: Handsfree (HFP) 1.5, headset (HSP)1.2, serial port (SPP) 1.1
- Operating temperature: -20°C ... +60°C
- Storage temperature: -40°C ... +85°C
The Savox BTR-155 Bluetooth RSM is the perfect accessory for your professional radio, mobile phone or PoC unit, adapting quickly to your needs in varying professional surroundings. The extremely rugged design of this Remote Speaker Microphone provides the ultimate platform for all the different end-users. It is light, robust (to IP55) and the function buttons have been designed so it can be operated with protective gloves.

The BTR-155 offers both full duplex communication capability (for normal phone calls), and one-to-many push-to-talk capability. The wide variety of additional accessory headsets broaden the use of the Savox Promate BTR-155 remote speaker microphone.

**KEY BENEFITS**
- Superior audio clarity and volume output
- Push-to-talk over Bluetooth
- Superior audio quality, up to 100 dB
- Dust & water resistant (IP55)
- Full duplex call functionality
- Volume control
- Ergonomic & ruggedized
- Large buttons for use with gloves
- Rotating belt clip
- Compatible with all leading PTT applications
- Additional earphones and car mounting clip available
- Up to 30 hours talk time

**TECHNICAL DATA**
- Weight: 105g
- Size: 88 x 67 x 26 mm
- Talk time: Up to 30 hours
- Standby time: Up to 240 hours
- Charge time: Up to 2 hours
- Ingress protection: IP 55
- Drop test tolerance: To 1.5 M
- Battery: Lithium-ion polymer rechargeable
- Charger connector: Micro
- Attachment method: Clips to clothes via Industry tested metal / plastic clip
- Audio connector: 3.5mm audio jack. Savox specific pin configuration for mic and PTT button
- Microphone sensitivity: -44+/-3dB
- Speaker: Built-In
- Connectivity: Bluetooth 3.0, Class II
- Supported bluetooth profiles: (HFP) 1.5, (HSP) 1.2, (SPP) 1.1
- Operation temperature: -20°C...+60°C
- Storage temperature: -20°C...+60°C

**VENDOR / MODEL**
- SAVOX
- BTH 155
A “Zello Certified” Headset Accessory.
Certified push-to-talk hardware created specifically for Zello that enables you to:

- use a dedicated hardware button for push-to-talk;
- listen clearly in noisy environments through a headset or more powerful speaker;
- keep your phone locked and safe in your pocket while talk and listen or using other apps.

**KEY BENEFITS**

- Push-to-talk mode
- Micro USB compatible charger
- Clothing clip
- External earpiece jack
- Polycarbonate housing
- Sends call alerts to Android users with SOS button

**TECHNICAL DATA**

- BT3.0 AGHSP, AGHFP profiles supported
- Connect with mobile phone for calls handling and stereo music
- Switch to mono and stereo
- PTT button support
- Connect with various radio Bluetooth adapter
- Support 3.5 mm headset connector
- Dsp noise suppression, crystal voice quality
- Compatibility with various phone
- Working time: 8 hs
- Standby time: 100 hs
- Long life lithium battery (750 ma/3.7 v)
- Bluetooth Chip: CSR BCS MM
- Bluetooth RF Spec: Class 2
- RF Power: 4dB
- Operation Range: 10 Meters
- RF Frequency: 2.4~2.4835GHz
- Average Standby Current: 2mA
The CODAWheel is a one-buttoned, smart remote which is designed to help you control your smartphone without touching it while driving. Now, you can drive safely with your eyes set on the road while managing all of your tasks at the click of a finger.

CODAWheel - is a wireless multi-function button, which can be mounted inside the vehicle, allowing the use of smartphone functions without being distracted from the road.

In the case of T.FLEX, it allows the wheel to perform an emergency call.

For correct operation of CODAWheel, you need to install the app to pair CODAWheel with your smartphone and select CODAWheel in T.Flex settings as the desired device.
3.8 WIRELESS MULTIFUNCTION BUTTON

CODAClick - is a wireless multi-function button, which can be attached to clothing or mounted inside the vehicle, allowing the use of smartphone functions without being distracted from your business.

In the case of T.Flex, it allows the wheel to perform emergency calls.

Install the app to pair CODAClick with your smartphone and select CODAClick in T.FLEX settings as the desired device.
Rexon BT-28HC wireless speaker microphone is able to connected with Android cell phone via Bluetooth.

**KEY BENEFITS**

- Supports T.FLEX mobile app
- Durable and water-resistant (IP56)
- Dual PTT
- Micro USB charging
- Wireless handsfree for smart phones
- 360 degrees switchable belt clip
- Volume up/down

**TECHNICAL DATA**

- Dimensions: 87 x 55 x 28 mm
- Weight: 110 g
- Battery: 540 mhz
- Charge connector: Micro USB
- Earphone jack: Motorola M12 compatible
- Microphone: Built-in
- Speaker: Built-in
- Bluetooth version: 3.0, Class II
- Supported bluetooth profiles: Handsfree (HFP) 1.5, Headset (HSP) 1.1, Serial port (SPP) 1.1

**VENDOR / MODEL**

- Rexon
- BT-28HC
The AINA PTT Voice Responder is a wireless communication device that utilizes Bluetooth technology. The PTT Voice Responder incorporates a speaker, a microphone with push-to-talk, an emergency button and auxiliary buttons. In addition, support for an audio headset is provided by a 4 pin audio jack (iPhone compatible), which, when in use, mutes the device's speaker. The internal battery is charged using an industry standard micro-USB connector. The rear of the PTT Voice Responder includes a clip for attachment to a lapel or belt.

The PTT Voice Responder also supports Covert mode. When this is activated, LED indications are suppressed and audio annunciations are selectively muted.

The PTT Voice Responder supports Android, iOS and Windows devices running a push-to-talk (PTT) application. Depending on the chosen PTT application, buttons may have different functionalities assigned to them by the PTT app developer.
AINA’s PTT Smart Button is a Bluetooth key that remotely controls the smartphone’s Push-to-Talk and other IoT applications. It features a PTT button, a multifunction button, and an emergency button. It also supports Near Field Communication (NFC) touch pairing.

Simply, pair the PTT Smart Button, open the T.Flex app, and connect your headphones to the phone to start communicating.
The TM3 is a table microphone with a high class premium loudspeaker included and is equipped with a USB connector for best usability and nearly all applications.

The flexible goose neck allows easy adjustment to the need of every person at the desks of i.e. voice communication systems or control rooms at the air traffic control and others. The high structural stability brings a perfect ease of use in every situation. The push-to-talk button can easily be adapted to any system without the need to do big changes.
Aurelis USB is a hand held microphone for connection to computer-based communication systems, especially for control centers.

The USB option allows a easy to use device. Plug in and use the device right along. There is no need for further driver installation for the PTT button. The PTT button will also be available with HID profile and can be used with voice communication systems.
4.3 USB DESKTOP MICROPHONE

TECHNICAL DATA

- Product Type: Microphone
- Type: Telescopic pole
- Connectivity: Technology Wired
- Remote control
- Commands Conversation: Push Button
- Connector: Type USB
- Cables Included: Microphone cable

Vendor / Model

- Plantronics
- SSP 2753-01

Desktop Microphone USB - PTT (Push-To-Talk). Provides USB audio and digital PTT signal.
4.4 USB DESKTOP DYNAMIC MICROPHONE

Desktop microphone with dynamic microphone and USB connection.

VENDOR / MODEL
- Pei Tel
- PS12 USB

KEY BENEFITS
- Dynamic unidirectional high noise canceling gooseneck microphone
- Device recognized as external sound card by the computer
- Buttons and LEDs recognized as HID (Human Interface Device)
- Compatible with Microsoft® Windows® Vista, Windows® 7 and Windows® 8

TECHNICAL DATA
- Microphone head: Brass, sand blasted chrome (matte)
- Gooseneck: Metal, matte silver coated
- Housing: Metal, matte silver coated
- Dimensions:
  1. Microphone head: Length 80 mm, Ø 24 mm
  2. Gooseneck: Length 200 mm, Ø 11 mm
  3. Housing: Height 32 mm, Width 105 mm, Depth 160 mm
- Weight: 770 g (27.1 oz)
- Connection: 2 m cable with USB-A plug
- Operating and 1 Button, black
- Display elements: 1 LED, blue
- Storage temperature: -30 °C to +70 °C (-22 °F to +158 °F)
- Operation temperature: -10 °C to +55 °C (-14 °F to +131 °F)
5

WIRED EXTERNAL DEVICES

5.1

REMOTE SPEAKER MICROPHONE

Designed for smartphones and tablets, the Savox Promate RSM-30 is a rugged remote speaker microphone with push-to-talk and full duplex call capability. The ergonomic design allows easy option even when wearing gloves. Light weight and robust design (IP55) as well as a variety of optional earpieces allow a quick adaptation to any work environment.

VENDOR / MODEL
- SAVOX
- PROMATE RSM-30

KEY BENEFITS
- Superior audio clarity and volume output
- 3.5 mm headset connector
- Superior audio quality, up to 100 dB
- Dust & water resistant (IP55)
- Full duplex call functionality
- Volume control
- Ergonomic & ruggedized
- Large buttons for use with gloves
- Rotating belt clip
- Compatible with all leading PTT applications
- Additional earphones and car mounting clip available
- Up to 80 hours talk time

TECHNICAL DATA
- Weight: 180 g with connector cable
- Size: 100 x 67 x 28 mm
- Cable: Coiled length, 630 mm, diameter 4mm, tension strength 50N
- Connectors: 3.5 mm connector for mono earpiece and headset with or without microphone
- Operating temperature: -20°C...+60°C
- Storage temperature: -40°C...+85°C
- Ingress protection: IP55
- ESD, EMI immunity: EN 300 394-1, EN 301 489-1 and EN 301 489-18, EN 61000-4-3, ESD, EN 61000-4-2, FCC
6 HARDWARE DEVICE BUTTONS

T.FLEX supports various specialized smartphones with PTT, Emergency and Channel change buttons.

6.1 SMARTPHONE ECOM

An ultra-rugged, unlocked, LTE / WiFi / Android™ smartphone. Smart-ex01 works with T.Flex for PTT and emergency buttons.

The Smart-Ex® 01M is a stand-alone device with its own mining certification. Therefore and because of certification reasons a yellow leather case is required in underground mining locations.

VENDOR / MODEL

- ECOM
- Smart-ex 01

KEY BENEFITS

- Such as a touch screen that can be viewed in direct sunlight and easily used with dirty or wet work gloves
- An extremely loudspeaker, noise cancellation, a powerful battery, water and drop resistance are just some features of the Smart-Ex® 01 that provide peace of mind to enterprises and workers alike
- Access to productivity applications and worker safety as well as a full suite of industrial-grade
- Unlocked and SIM free – allowing connection to any network worldwide

TECHNICAL DATA

- 4G / LTE-standard (SIM unlocked and free)
- Android™ 4.4, KitKat operating system
- 4.0” capacitive multi-touch screen made of extreme shock and scratch resistant Gorilla® Glass 2
- Glove Touch Screen
- High Visibility Display in Direct Sunlight
- NFC functionality
- 3600 mAh Li-Ion battery pack
- Bluetooth® 4.0 incl. BLE (Bluetooth® Low Energy), BLE (30 times faster, 1/100th of power)
- WIFI 802.11 a/b/g/n
- (Optional) 8 MP rear camera with auto focus and LED flash with torchlight function and 1 MP front camera
- 5-pins water-proof magnetic USB 2.0 High Speed connector
- IP68 - Dust proof, water proof
- Push-to-talk (App solution)
- Dedicated Hardware buttons for PTT, LWP functions
- (Optional) Lone Worker Protection (App solution)
- (Optional) Service Level Agreement (SLA)
Serving, protecting and providing for others demands a smart device you can rely on. Sonim XP8 is the world’s most reliable ultra-rugged smartphone. Built to provide those who serve with the smart communication they need, regardless of situation or environment.

Military-rated design ensures reliable smart communication, and management applications improve business efficiency. Enjoy easy, fumble-free keys - large, tactile and intuitive PTT, SOS and volume buttons and controls make communication easy and error-free.

**KEY BENEFITS**

- Programmable buttons and applications in any condition with Gloved hand/Wet finger operation
- Extremely Loud & Clear Audio
- Connect instantly, reliably, every single time with Push-To-Talk
- Multi-shift Battery Life
- Handset Powered Audio Accessories connected through Sonim’s SecureAudio Connector

**TECHNICAL DATA**

- Operating System: Android N
- Chipset: Snapdragon 630 OctaCore @ 2.2GHz 64bit
  UMTS: B1/B2/B4/B5/B8
- CDMA/EVDO1: BCD1/BC1/BC10
- GSM: 850/900/1800/1900MHz
- Antenna MIMO antenna for LTE
- Wi-Fi: IEEE802.11 a/b/g/n/ac 2.4/5GHz Miracast™ - WiFi direct
- Memory: 4GB RAM/64GB ROM, 45GB available user memory. Supports up to 128GB MicroSD external memory
- Bluetooth: BTS 0 with BLE
- GPS: GPS, GLONASS, BeiDou
- Sensors: Video Calling, OMA CPM Advanced Messaging
- NFC: Yes
- Battery: Capacity 4900mAh Li-Ion, Removable; Charging Quick Charge 4.0 via USB-C
- Size: 152 mm x 79.5 mm x 18 mm
- Weight: 335g
- Dedicated Keys: PTT Key, Programmable Key, Volume Keys, SOS Red Alert, Power On/Off, Home, Back, & Recent
- Ports: XPand Interface, USB-C, Sonim SecureAudio Connector, Charging Pins, Dual Nano SIM Card Slots
- Lanyard Loop: Yes
- Rugged Certifications: Non-Incendive Class I, Div 2, Groups A, B, C, D; Class II & III, Div 2, Group
- Display Size/Type: 5.0” Gorilla Glass 3, Resolution FHD 1080x1920, Colors 16.7M
- Audio: Microphone 3 mic solution with noise cancellation, Speaker Dual front-facing loud speakers; output 100dB+, HAC M4/T4 Hearing Aid Compatible

**VENDOR / MODEL**

- Sonim
- XP8
The Sonim XP7 is the cornerstone of Sonim’s Mission Critical Solution. An ultra-rugged, LTE/WiFi/Android smartphone, the XP7 is outfitted with unrivaled features such as a touch screen that can be viewed in direct sunlight and easily used with dirty or wet work gloves.

An extra loud speaker, noise cancellation, powerful battery, resistance to drops and water and a 3-Year comprehensive warranty are just some features of the XP7 that provide peace of mind to enterprises and workers alike.

Access to vertical enterprise worker safety and productivity applications as well as a full suite of industrial-grade accessories completes the solution.

Sonim XP7 works with T.Flex for PTT and emergency buttons.
The Sonim XP5 is an ultra-rugged LTE, Push-to-Talk phone with WiFi capabilities, powerful audio and long lasting battery, allowing field workers to more efficiently communicate with their teams.

Dual, front-facing loud speakers ensure clear communication no matter how noisy the environment while the powerful battery will last through back-to-back shifts.

Built for those heavy Push-to-Talk (PTT) users who work in extreme environments in industries such as construction, transportation, manufacturing and hospitality, the Sonim XP5 is fully water and dust proof, resistant to drops onto concrete from over 2M and comes with a large PTT button for ease of use with gloves.

Sonim XP5 works with T.Flex for PTT.
Boxchip S700A is an advanced professional handheld 4G LTE radio, the integration of safe and reliable DMR communication and new value-added services. All-round means of communication, real-time control for the industry customers to bring a strong business ability, stable and reliable real-time communication response, and more excellent integration experience is the best communications partners for industry customers.
K-Mobile R887 is a specialized smartphone with support for PTT, emergency calls and change channels.
This smart Android device is perfect for the user who requires Push to talk (walkie talkie) as the handset has a dedicated PTT button. The handset also has the option to extend the battery like with an extendable handset. This handset is waterproof and dustproof and also is dual sim so you can run 2 sim cards at the same time if needed.

The RG500 survives a drop from a height of 2 m, as well as large amounts of dust and temperature fluctuations.

All this cannot influence the technical possibilities. Equipped with an amplifier loudspeaker, a 5 megapixels camera and a powerful LED flashlight – the RG500 will make the activities much easier.

RugGear RG 500 works with T.Flex for PTT and emergency buttons.
It's ultra-durable with Military Standard 810G protection against dust, shock, vibration, temperature extremes, blowing rain, low pressure, solar radiation, salt fog, humidity, and water immersion making it an ideal sidekick for just about any adventure.

KC-S701 works with T.Flex for PTT.

**TECHNICAL DATA**

- **Size:** 136 x 68 x 13.5 Mm
- **Weight:** 182 g
- **Talk time:** UMTS: up to 27 hours / GSM: up to 17 hours
- **Standby time:** UMTS up to 1000 hours / GSM up to 950 hours / 4G LTE up to 810 hours
- **Battery type:** 3100 mAh Lithium ion (Li-ion), Non-removable, Wireless Charging (Qi-enabled)
- **Display:** SIZE: 4.5" HD (1280 x 720), Wet/Glove: Touch Functionality
- **LED flash and auto-focus, 2MP front-facing camera for video calling**
- **Operating system:** Android 4.4 (Kit Kat)
- **Chipset:** MSM8928, Qualcomm® SnapdragonTM 400 1.4GHz quad-core processor
- **Modes:** UMTS Band 1 (2100)/Band 2 (1900)/Band 5 (850)/Band 8 (900), 4G LTE Band 1/ Band 3/ Band 7/Band 20, GSM 850/900/1800/1900
- **Connectivity:** Wi-Fi a/b/g/n/ac (2.4GHz/5GHz), Tethering, Bluetooth® 4.0, NFC
- **Memory:** (ROM/RAM): 16GB/2GB, microSDTM memory card slot (MAX 128GB)
The Toughpad FZ-N1 with Android™ 6.0 is one of the thinnest and most lightweight handheld tablets in the 4.7” category. The device offers numerous unique features, including an angled rear barcode reader which protects users from repetitive strain and enhances productivity, and an optional passive and active pen for precise handwriting and signature capture.
The Blackview 6000 smartphone is totally waterproof. It can be held in a depth of 1.5 meters for 30 minutes without damages. Equipped with GPS and GLONASS dual-satellite-positioning it guarantees safety and security. This rugged smartphone offers 3 GB disc space.

**TECHNICAL DATA**

- **Dimensions:** 152.3 mm x 81 mm x 16.6 mm
- **Battery:** 4500mAh, Li-Polymer
- **CPU:** MT6737T ARM Cortex – A53 1.5GHz Quad-core
- **GPU:** Mali T720
- **Memory:** 2GB RAM + 16GB ROM (TF 32GB)
- **Display:** 4.7” HD 720*1280
- **OS:** Android 6.0
- **Camera:** OV Software 8.0MP Rear Camera, Software 2.0MP Front Camera
- **Network:** 2G: GSM 850 / 900 / 1800 / 1900, 3G: WCDMA 850 / 900 / 1900 / 2100, 4G: LTE 800 / 1800 / 2100 / 2600
- **SIM Card Dual:** SIM Card, Dual Standby, One Talk, Micro SIM Card, TF Card
- **Sensors:** Light Sensor, Proximity Sensor, Accelerometer Sensor
- **Multi-media Video:** MP4,3Gp,MOV,AVI,FLV,MPEG,
- **Audio:** FLAC, APE, AC, MKA, OGG, MIDI, M4A, AMR
- **Image:** JPEG, PNG, GIF, BMP
- **Operating Environment:** Working environment temperature -15°C-55°C, Relative humidity 95 °C
- **Operational altitude:** up to 5000 meter

**KEY BENEFITS**

- IP68 makes survivable in harsh environment
- Snapshop button
- Corning Gorilla Glass 3
- 8.0 MP HD Camera Lens
- Built-in NFC technology
- Long Lasting Battery
- 4G Network
- Dual-satellite Positioning System GPS+GLONASS
- Atmosphere Pressure Sensor
- Bi-material injection molding frame

**SMARTPHONE BLACKVIEW**

The Blackview 6000 smartphone is totally waterproof. It can be held in a depth of 1.5 meters for 30 minutes without damages. Equipped with GPS and GLONASS dual-satellite-positioning it guarantees safety and security. This rugged smartphone offers 3 GB disc space.

**VENDOR / MODEL**

- Blackview
- BV6000