TASSTA

PTT SOLUTION FOR SPECIAL APPLICATIONS

i.safe MOBILE

TASSTA offers a professional Push-to-Talk (PTT) solution which uses all technical capacities of the i.safe MOBILE smartphones. TASSTA's T.Flex application and the special hardware operational buttons on the i.safe IS530.1, IS530.2 and IS530.RG devices are able to provide the best possible safety for an everyday operation.

TASSTA's T.Flex which is installed on the i.safe devices makes it possible to organize a professional PTT communication platform in hazardous environments (e.g. oil and gas plants, chemical plants, mining, etc.).

TASSTA extends capabilities and allows users to operate on cellular networks around the world. It works over LAN, WiFi or/and any mobile network (e.g. 3G, LTE) while allowing users a maximum connectivity.

THE BEST POSSIBLE SAFETY FOR AN EVERYDAY OPERATION

- Ambience Listening
- Mandown & Lone Worker Protection (LWP)
- Issue Management by QR-code, Barcode, NFC
- Individual-, Group-, Priority and Video Calls
- Dynamic Group
- GPS- and In-house Tracking
- Map and Geozones

- Remote Camera Control
- Task Management System
- External Devices and Accessories
- Emergency Call and Emergency Alert
- Messages and Data Transferring
- Voice Recording and Replay

SECTORS / INDUSTRIES

TASSTA

Industries that need Hazardous Certified Devices

Mining	Chemical Plants	Building & Construction
Oil & Gas Plants	Police	Fire Brigades
Rescue	Airport	Security
Logistics	Hospital	Agriculture

Over 60% of manufacturers have the need for an intrinsically safe device including oil & gas, chemical and pharmaceutical industries, but also textile, cosmetic, aerospace, automotive, food, agricultural, mining and munitions industries - just to name a few.

TASSTA & i.safe MOBILE

**2G /3G / LTE / WIFI & SATELLITE
DMR, P25, TETRA**

T.FLEX

Application running on portable devices, smartphones, tablets and laptops.

T.RODON
Command and Control Center Solution. It Can be organized as a Desktop Application or be running on the field in mobile environments.
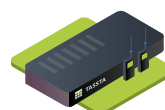
T.LION
Communications server - the main component of the TASSTA network. Available as standalone or /and cloud solution.

T.COMMANDER
Web-based application to control resources and services on TASSTA Servers.

T.BRIDGE
Professional middleware solution interconnecting TASSTA and PMR Networks.

i.safe DEVICES WITH TASSTA

I.safe MOBILE is an expert for mobile communication devices providing safety in explosion hazardous areas. Their products are worldwide tested and certified by several well-known notified bodies to be sure that they fulfill all country-specific requirements.

I.safe MOBILE incorporates all international standards into the product development and is also a member of relevant standardization committees. To fulfill all requirements for explosion protection they develop their products from scratch, so users all over the world can be sure to use high-quality communication technology up to date with current standards.

IS530.1, IS530.2, IS530.RG

These i.safe MOBILE devices can be purchased in 3 different ATEX Zones: ATEX Zone 1/21, -2/22 and rugged.

The smart and innovative smartphone from i.safe includes the most advanced technology: First Bluetooth® 5 industrial smartphone with multifunctional ISM interface, large internal 64 GB storage and the highest camera resolution in its class.

Each device enables mission-critical communication, optimized for the harsh conditions in the mining sector.

TECHNICAL SPECIFICATIONS

Operating System	Android™ 9
Size	155 x 80 x 25 mm
LWP ready	optional (third party application provided)
Bluetooth®	5
Frequencies	GSM 850/900/1800/1900 MHz WCDMA UMTS B1/B2/B4/B5/B8 LTE-TDD B38/B39/B40/B41 LTE-FDD B1/B2/B3/B4/B5/B7/B8/B12 mit MFBI B13/B14/B17/B20/B25/B26/B28A/B28B/B30/B66 TD-SCDMA B34/B39
Wi-Fi®	2,4 GHz + 5 GHz IEEE 802.11 a/b/g/n/ac/e/k/r/h with max. 8 connections hotspot
NFC	Near Field Communication
Display	4,5" (11.43 cm) Gorilla Glass® 3. generation, usable with gloves
Processor	Qualcomm Snapdragon SDM660 Octa-Core
Memory	64 GB internal memory, 4 GB RAM
Micro-SD	up to 128 GB
Camera	2 cameras, 13 MP AF rear camera and 5 MP front camera
Battery	3600 mAh battery (replaceable)
Operation range from	-20 °C to 60 °C
Security updates	Fully compliant with the requirements for Android Enterprise Recommended Rugged Devices.

Further specifications

Waterproof	1h up to 2 m depth, dust-proof
Amplified speakers	155 x 80 x 25 mm
Impact protection	Against vibrations, shock, wide temperature variations
Charge port	USB-magnetic

All devices include:

**Replaceable
3,600 mAh battery**

USB cable

Charger

Safety instructions

Quick start guide

Additional accessories:

- **Battery 3.600 mAh**
- **Desk Charger**
- **Earphone IS-HS1.1**
- **Leather case black**

- **Display protection foil**
- **Multicharger**
- **Beltclip**
- **PanzerGlassTM**

- **Hand strap**
- **IS-Stylus**
- **Armholder**

CERTIFICATES

I.safe MOBILE's IS530.1 intrinsically safe and multifunctional industrial smartphone received the IECEx Certificate of Conformity.

TASSTA's Lone Worker Protection passed the German DGUV Test, receiving the GS-certification. This German certification is recognized worldwide and it is very similar to the British BS 8484.

CASE STUDY: TASSTA AND BECKER MINING SYSTEMS

TASSTA

The Germany-based Becker Mining Systems AG with its subsidiaries (Becker Group) sets international standards with their specialized concepts for the operation of mines, which are geared towards safety and sustainability. Their business focus has shifted further to other mining sectors and regions of the world within the last years. Today, their main production facilities and service centers are located in the most important mining regions of the world.

Becker Mining utilises TASSTA applications in a private secure closed network. This is made possible by the T.Lions on premise option; The reliability and robustness of the server eliminates the need for a breakout network that would primarily be required for constant maintenance; and the T.Flex application running on i.Safe device are Wifi capable, eliminating the need for sim cards. This allows the operators and engineers to communicate underground without being reliant on sim cards as they are using their secure private network. The architecture lowers their TCO (Total cost of ownership), gives them peace of mind around data security, due to not having their data transmitted to 3rd parts companies.

The TASSTA promotes efficiency in communications and improves safety, where underground team members can communicate with the surface support team securely, reliably and instantly.