

Modularly expandable, monitored push-button mobile phone. As a hardware platform, it supports a number of technological building blocks from communication to detection, which are integrated to the device's internal connectors.



## Open source operating system



- Stable operation of the embedded system is ensured by the freeRTOS operating system

## Ergonomic and rugged design



- Dust and splash protection

## Large built-in battery



- 72 hours standby time

## Remotely manageable device



- Software configuration
- Software update

## LoRa (Long Range radio)



- Support for long-range, low-energy radio data transmission for the wristband emergency alarm

## Wireless communication



- 4G (850 MHz, 900 MHz, 1800 MHz, 1900 MHz)
- Bluetooth 4.0
- Wifi
- GPRS

## Emergency and pager function



- 24/7 support from the control dispatcher centre

## Online and offline operation



- Offline: call initiation, SMS service
- Online: real-time diagnostic status monitoring, emergency calls

## Code identification technology



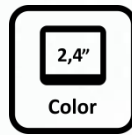
- Barcode (1D)
- QR code (2D)

## RFID (Radio Frequency Identification)



- Support for 125 kHz RFID reading

## Technical specifications



Physical features	
Dimensions	147x54x22 mm (H x W x D)
Display	2.4" TFT, 320x240 pixel, 65K
Keypad	Rubber push button
Battery	2300 mAh
Sensors	3D accelerometer, light sensor
Switches	USB 2.0 Micro-B
Audio	0.1 W loudspeaker / 1 W loudspeaker
Resources	
CPU	Cortex-M4, 180MHz, Single Core
RAM	128kB
ROM	512kB (system) + 8 Mb (storage space)
Programing environment	
Op. system	FreeRTOS v9.0.0
User environment	
Operating temperature	-20 °C + 50 °C
Storage temperature	-30 °C + 80 °C
Protection level	IP54

Communication	
Modem	GSM 6 EDGE QuadBand (850 / 900 / 1800 / 1900MHz)
Bluetooth	4.0
GPS	GPS / GLONASS / QZSS
Barcode reader	
Type	LV3080
Sensor	640x480 CMOS
Symbols	1D / 2D
RFID	
Frequency	125 kHz
Other modules	
Torch	1300 mcd led

## Available accessories:



Barcode reader (1D-2D)



RFID sticker



Wireless charger



Wristband emergency alarm

