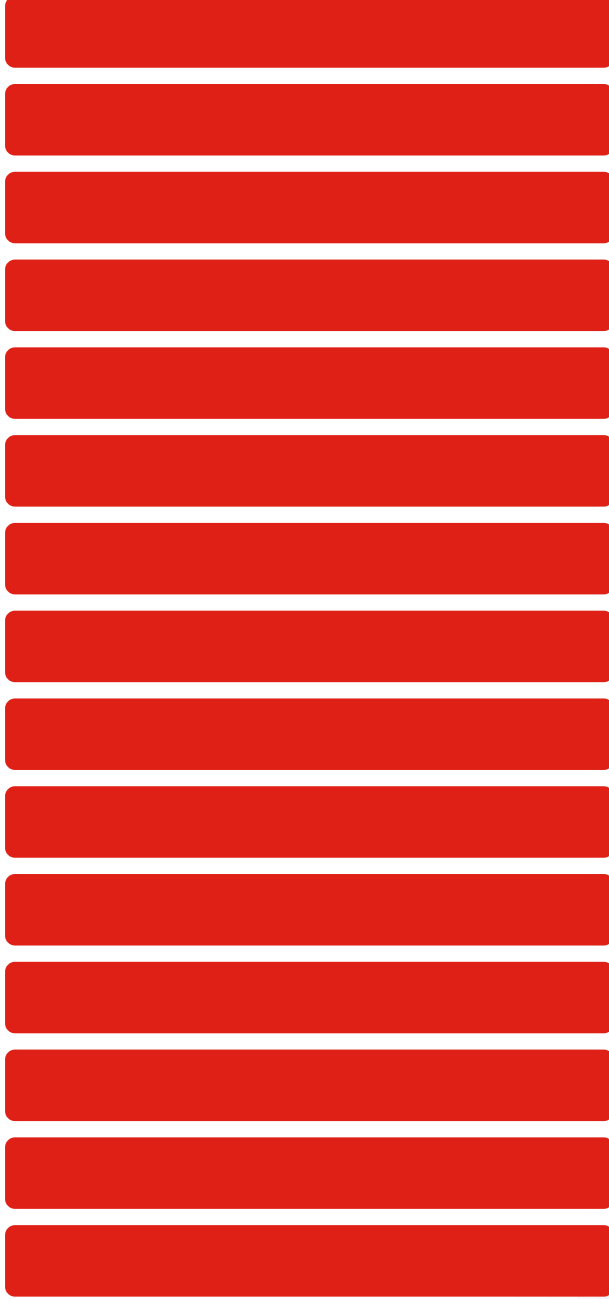


i.safe MOBILE Zone 1/21 Products List

Please click to product title to see details!





DOCKINGSTATION DS930.1

Charge with the Dockingstation DS930.1 and connect additional devices. Easy integration into local networks through a gigabit network connection and thus faster access to huge data volumes.

› Please visit our website and you will find more detailed information, as well as an overview of compatible accessories. › i.safe MOBILE and i.safe MOBILE logo are registered trademarks of i.safe MOBILE GmbH. Android is a trademark of Google Inc. All other trademarks and copyrights are the properties of their respective owners. › © 2020 by i.safe MOBILE GmbH | All rights reserved. | Misprints, errors and modifications excepted. | 1030MD02REV00_EN_9.2020

TECHNICAL FEATURES

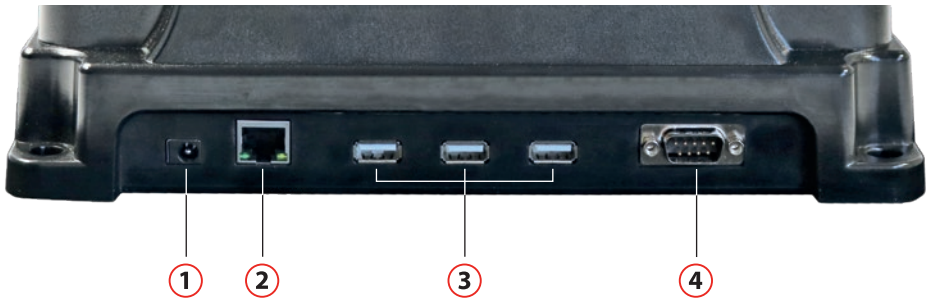
Dimension: approx. 13,5 x 20,5 x 27,4 cm

Weight: 940g

4 Mounting holes to fix the docking station

Connections:

- ① 1 x Power-supply
- ② 1 x RJ45 Ethernet → affected IS910.1: supports OS ANDROID 8.0 from firmware status 20190410; all other tablets compatible
- ③ 3 x USB (support for low power device: mouse, keyboard, USB memory stick, etc.)
- ④ 1 x service interface



Application example
with IS930.1

CONTENTS

Dockingstation D5930.1, power adapter, manual

DATASHEET

IS-MC540.1

MULTI CHARGER
FOR IS540.X



PRODUCT DESCRIPTION

The Multi Charger IS-MC540.1 allows charging of up to five devices and its spare batteries at the same time. It is compatible with the devices IS540.1, IS540.M1 and IS540.2

- 1) Charging tray for single battery
- 2) Charging slot IS540.x
- 3) Indicator LED IS540.X: Display for charging status IS540.x
- 4) Indicator LED battery: Display for battery charging status

TECHNICAL FEATURES

Input	100-240 V 1,1 A 50-60 Hz
Output	DC 5 V
Dimensions	593 x 112 x 90 mm (LxWxH)
Weight	~ 1725 g
Connection	Charging contacts
Capacity	Maximum 5 devices and its spare batteries at the same time
Compatibility	IS540.1, IS540.M1, IS540.2

SET CONTENT

Multi Charger IS-MC530.1, Power Cable C7 AU/EU/UK/US, Quick Start Manual and Safety Instructions

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

DATASHEET

IS440.1



APPROVALS



ATEX approval: EX-Zone 1/21
 Ⓜ II 2G Ex ib IIC T4 Gb
 Ⓜ II 2D Ex ib IIIC T135°C Db



IECEx approval: EX-Zone 1/21
 Ex ib IIC T4 Gb
 Ex ib IIIC T135°C Db

NEC500 approval
 Class I, II, III Division 1
 Groups A B C D E F G T4

TECHNICAL FEATURES MODEL M440A01

Operating system	ISM-OS
Processor	Qualcomm® QCM6490 Octa Core
Memory	4 GB RAM 64 GB internal memory
Supported frequency bands	4G LTE-FDD: B1/2/3/4/5/7/8/12 with MFBI/13/14/17/20/25/26/28/29/30/66/68/71 4G LTE-TDD: B38/39/40/41/42/43/48 5G NR: n1/n2/n3/n5/n7/n8/n12/n14/n20/n25/n28/n30/n38/n40/n41/n48/n66/n71/n77/n78/n79
Dimensions	Size: 136,6 x 71,5 x 32 mm weight: 322 g
Display	2,4" Corning® Gorilla® Glass 3 rd generation 240 x 320 pixels
Battery	2400 mAh (4800 mAh optional) replaceable
Camera	8 MP AF front camera
SIM support	1 nano SIM + eSIM
Connections	Wi-Fi® 6: IEEE 802.11 a/b/g/n/ac/ax/e/k/r/v Bluetooth® 5.2 GPS, A-GPS, Glonass, A-Glonass, Beidou, Galileo Near Field Communication (NFC)
Interfaces	8-pin ISM interface for optional audio accessories
Sensors	Accelerometer, Gyroscope, Magnetic, Pressure sensors
Types of protection	IP68 dust-/waterproof MIL-STD-810H usable from -20 °C to +55 °C

FURTHER FEATURES

Red key top | Optional functions assignable via Button App (system integrated), e.g. LWP

Side key left | Optional functions assignable via Button App (system integrated), e.g. PTT

Channel selector knob (top)

Function key: M1 & M2 assignable via Button App

Amplified loudspeaker

Charging contacts for Desktop Charger

Integrated Belt clip

SET CONTENT

5G Radio, Battery, i.safe PROTECTOR 2.0 Type C USB Cable, Power Adapter universal, Screwdriver, Display Protection Foil, Belt clip, Quick Start Manual and Safety Instructions

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

DATASHEET

< IS940.1 >



APPROVALS



ATEX approval: EX-Zone 1/21 requested
 Ⓜ II 2G Ex ib IIC T4 Gb
 Ⓜ II 2D Ex ib IIIC T135°C Db



IECEx approval: EX-Zone 1/21 requested
 Ex ib IIC T4 Gb
 Ex ib IIIC T135°C Db

NEC500 approval: requested
 Class I, II, III Division 1
 Groups A B C D E F G T4

TECHNICAL FEATURES MODEL M940A01

Operating system	Android™ 13
Processor	Qualcomm® QCM6490 Octa Core
Memory	8 GB RAM 128 GB internal memory microSD memory up to 128 GB
Supported frequency bands	4G LTE-FDD: B1/2/3/4/5/7/8/12 with MFBI/13/14/17/20/25/26/28A/28B/29/30/66/68/71 4G LTE-TDD: B38/39/40/41/42/43/48 5G NR: n1/n2/n3/n5/n7/n8/n12/n14/n20/n25/n28/n30/n38/n40/n41/n48/n66/n71/n77/n78/n79
Dimensions	Size: 266,17 x 168,46 x 19,82 mm weight: 1059 g
Display	10,1" (25,65 cm) Corning® Gorilla® Glass 3rd generation 1200 x 1920 pixels usable with gloves
Battery	8160 mAh replaceable
Camera	50 MP AF rear camera 5 MP FF front camera
SIM support	1 nano SIM + eSIM
Connections	Wi-Fi® 6: IEEE 802.11 a/b/g/n/ac/ax/e/k/r/v Bluetooth® 5.2 GPS, A-GPS, Glonass, A-Glonass, Beidou, Galileo Near Field Communication (NFC)
Ports in/out	16-pin ISM interface 12-pin ISM interface (Docking Station: optional accessory) USB-C
Sensors	Accelerometer, Gyroscope, Light, Magnetic, Proximity, Pressure sensors
Types of protection	IP68 dust-/waterproof MIL-STD-810H usable from -20 °C to +55 °C

FURTHER FEATURES

Function Key red | Optional functions assignable via Button App (system integrated), e.g. LWP

2 side keys right | Optional functions assignable via Button App (system integrated)

Mounting VESA 100

Amplified loudspeaker

SET CONTENT

Tablet, Battery, Hand Strap, i.safe PROTECTOR 2.0 USB-C Cable, Power Adapter universal, Screwdriver, Display Protection Foil and Safety Instructions

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

DATASHEET

< IS945.1 >



APPROVALS



ATEX approval: EX-Zone 1/21 requested
 Ⓜ II 2G Ex ib IIC T4 Gb
 Ⓜ II 2D Ex ib IIIC T135°C Db



IECEx approval: EX-Zone 1/21 requested
 Ex ib IIC T4 Gb
 Ex ib IIIC T135°C Db

NEC500 approval: requested
 Class I, II, III Division 1
 Groups A B C D E F G T4

TECHNICAL FEATURES MODEL M940A01

Operating system	Windows 11 IoT Enterprise
Processor	Qualcomm® QCM6490 Octa Core
Memory	8 GB RAM 128 GB internal memory microSD memory up to 128 GB
Supported frequency bands	4G LTE-FDD: B1/2/3/4/5/7/8/12 with MFBI/13/14/17/20/25/26/28A/28B/29/30/66/68/71 4G LTE-TDD: B38/39/40/41/42/43/48 5G NR: n1/n2/n3/n5/n7/n8/n12/n14/n20/n25/n28/n30/n38/n40/n41/n48/n66/n71/n77/n78/n79
Dimensions	Size: 266,17 x 168,46 x 19,82 mm weight: 1059 g
Display	10,1" (25,65 cm) Corning® Gorilla® Glass 3rd generation 1200 x 1920 pixels usable with gloves
Battery	8160 mAh replaceable
Camera	12 MP AF rear camera 5 MP FF front camera
SIM support	1 nano SIM + eSIM
Connections	Wi-Fi® 6: IEEE 802.11 a/b/g/n/ac/ax/e/k/r/v Bluetooth® 5.2 GPS, A-GPS, Glonass, A-Glonass, Beidou, Galileo Near Field Communication (NFC)
Ports in/out	16-pin ISM interface 12-pin ISM interface (Docking Station: optional accessory) USB-C
Sensors	Accelerometer, Gyroscope, Light, Magnetic, Proximity, Pressure sensors
Types of protection	IP68 dust-/waterproof MIL-STD-810H usable from -20 °C to +55 °C

FURTHER FEATURES

Function Key red | Optional functions assignable via Button App (system integrated), e.g. LWP

2 side keys right | Optional functions assignable via Button App (system integrated)

Mounting VESA 100

Amplified loudspeaker

SET CONTENT

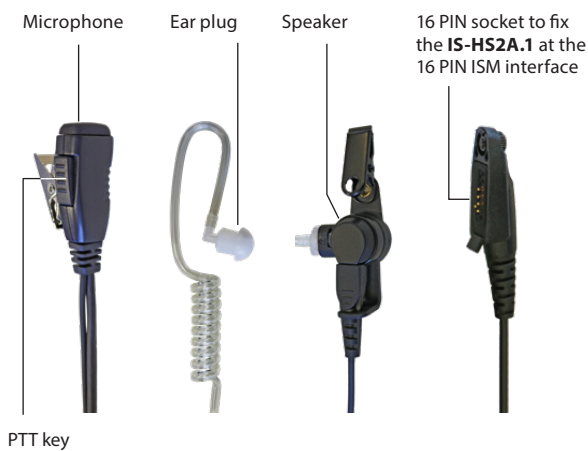
Tablet, Battery, Hand Strap, i.safe PROTECTOR 2.0 USB-C Cable, Power Adapter universal, Screwdriver, Display Protection Foil and Safety Instructions

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

DATASHEET

IS-HS2A.1

PTT/HEADSET
Air Tube Earplug/Microphone



EX-SPECIFICATIONS

The **IS-HS2A.1** is a headset suitable for use in potentially explosive atmospheres in accordance with the directive 2014/34/EU, as well as the IECEx scheme.

It is approved as an accessory device. Ex-marking see type examination certificate of the corresponding device. Compatible devices can be found at www.isafe-mobile.com.

FEATURES

16 PIN socket | suitable for all 16 ISM interfaces

PTT (Push to Talk) key with build-in microphone, crystal clear sound

Transparent flexible acoustic tube

Soft earplug is comfortable even wear for a long time

Please visit our website and you will find more detailed information, as well as an overview of our devices.

SIM card -
easy to install



**ZONE 1/21
CL I, II, III DIV 1**



› Ideal for IoT maintenance applications

› Zero-touch capable

› Android™ 13

IS930.1

Android
Enterprise
Recommended



The robust and powerful tablet of the Industry 4.0 generation is Android Enterprise Recommended and, thanks to its zero-touch functionality, can be used quickly and is ideally suited for maintenance applications in the IoT environment. The 8-inch display, two freely programmable buttons, a long-life battery, a practical hand strap and a separate leather bag with a shoulder/belt or carry strap system are further highlights.

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< IS930.1 >



ATEX approval: EX-Zone 1/21
Ⓜ II 2G Ex ib IIC T4 Gb
Ⓜ II 2D Ex ib IIIC T135°C Db IP6X



IECEx approval: EX-Zone 1/21
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db IP6X



NEC500 approval:
Class I, II, III Division 1
Groups A B C D E F G T4



EAC approval:
1Ex ib IIC T4 Gb X
Ex ib IIIC T135°C Db X IP64

Further approvals: INMETRO (Brazil) | KCs (South Korea) | PCEC (China) | JNIOOSH (Japan) | SANS (South Africa)

TECHNICAL FEATURES

Operating system	Android™ 13
Processor	SDM660 Octa-Core (Kryo Gold-Quad cores 2,2 GHz; Kryo Silver-Quad cores 1,8 GHz)
Memory	4 GB RAM 64 GB internal memory microSD memory up to 512 GB
Frequencies	2G GSM: 850/900/1800/1900 MHz 3G WCDMA: UMTS B1/2/4/5/8 4G LTE-FDD: B1/2/3/4/5/7/8/12 with MFB1 B13/14/17/20/25/26/28A/28B/29/30/66 4G LTE-TDD: B38/B39/B40/B41 4G LTE-SCDMA: B34/B39
Dimensions	size: 237 x 156 x 22 mm weight: 890 g
Display	8" Gorilla Glass® 3. generation 1200 x 1920 pixels
Battery	8400 mAh
Camera	13 MP AF rear camera 5 MP FF front camera
Connections	WiFi 2,4 GHz + 5 GHz: IEEE 802.11 a/b/g/n/ac/e/k/r/h with max. 8 connections hotspot Bluetooth® 5 GPS, A-GPS, Glonass, Beidou, Galileo Near Field Communication
Types of protection	IP68 dust-/waterproof MIL-STD-810H usable from -20 °C to +60 °C

FURTHER FEATURES



SOS key for loneworker protection
LWP ready (third party application required,
based on country specific regulations)



2 freely programmable keys



Usable with gloves



Accelerometer, gyroscope, magnetic,
temperature and humidity, proximity sensors



Magnetic charger port

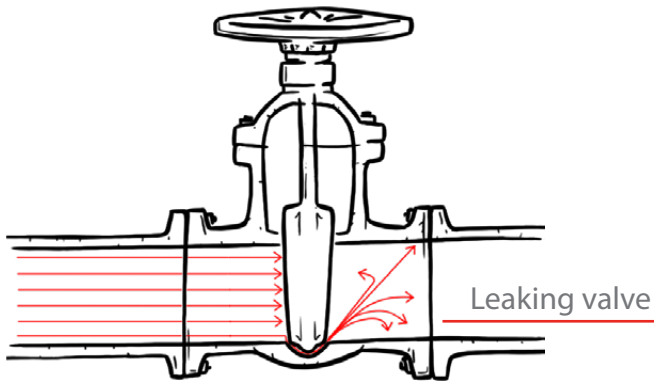
SET CONTENT

Tablet with integrated battery, Hand Strap, i.safe PROTECTOR 2.0 Type C USB Cable, i.safe PROTECTOR 3.0 USB Magnetic Charger Cable, Power Adapter universal, Display Protection Foil, Quick Start Manual and Safety Instructions

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

VALVE INSPECTION

in hazardous areas



The Problem

Leaking valves in industry can lead to:

- Losses (energy, steam, pressurized air, scrap, product)
- Risk of injury
- Contamination

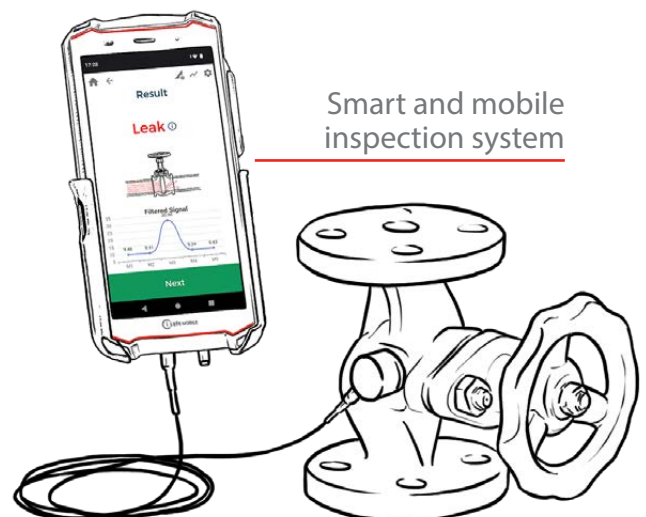
Currently valves are mostly removed and tested on a test bench →

This is time consuming and causes downtime

Valves are therefore rarely inspected and leaks remain unnoticed for a long time

Our Solution

- A smart and mobile inspection system for leak detection in valves
- Valve inspection while process is in operation
- Automated results immediately on site
- All inspection data structurally stored in a platform



Improve efficiency and save time & costs

VALVE SENSE

Valve leak detection in hazardous areas



Acoustic emission meets digitalization

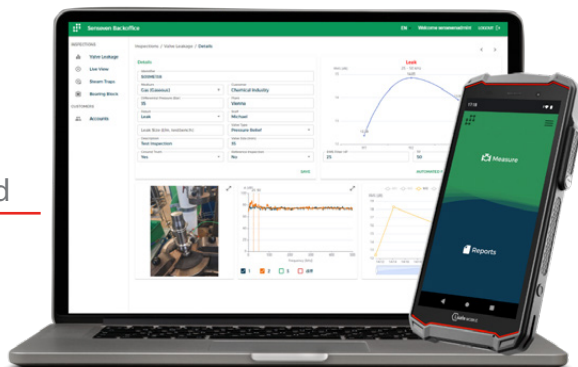
AE sensors are connected with the i.safe MOBILE IS540.1 smartphone for Zone 1/21. Equipped with the Senseven App and supported by artificial intelligence

No expert knowledge necessary due to automatic leak detection

Software-guided inspection process with immediate results on site thanks to algorithms and AI



All data structurally stored



Automatic data synchronization

All inspection data is automatically stored in our cloud platform for further analysis and easy reporting

DATASHEET

◀ HMT-1Z1 ▶



APPROVALS



ATEX approval: EX-Zone 1/21
 Ⓜ II 2G Ex ib IIC T4 Gb
 Ⓜ II 2D Ex ib IIIC T135°C Db IP6X



IECEx approval: EX-Zone 1/21
 Ex ib IIC T4 Gb
 Ex ib IIIC T135°C Db IP6X



NEC500 approval:
 Class I, II, III Division 1
 Groups A B C D E F G T4



EAC approval:
 1Ex ib IIC T4 Gb X
 Ex ib IIIC T135°C Db X

Further approvals: INMETRO (Brazil) | KCs (South Korea) | PCEC (China) | SANS (South Africa)

TECHNICAL FEATURES

Operating system	Android™ 10 + WearHF™ hands-free interface
Processor	2,0 GHz Qualcomm Snapdragon 625 with Adreno 506 GPU - OpenGL ES3.1 & OpenCL 2.0
Memory	2 GB RAM 16 GB internal memory microSD memory up to 64 GB
Dimensions	size: ~270 x ~230 mm weight: 437 g
Display	20° field-of-view, 1 m fixed focus, 24-bit color LCD 0,33 inch diagonal, outdoor visible resolution WVGA 854 x 480 pixels
Battery	integrated 3400 mAh battery, full shift (9-10 hrs) with typical use
Camera	16 MP 4-image stabilized, PDAF with LED flashlight
Connections	WiFi 2,4 GHz + 5 GHz: IEEE 802.11 a/b/g/n/ac Bluetooth® 4.1 LE GPS, Glonass, Beidou, Galileo
Sensors	Accelerometer, Gyroscope, Magnetic sensors
Types of protection	IP66 dust-/waterproof MIL-STD-810G usable from -20 °C to +60 °C

FURTHER FEATURES

100% hands free

Includes applications: document navigator, camera with barcode eader, video recorder, media player

PPE COMPATIBLE - Designed to work with standard hard helmets, bump caps and safety glasses

Internal 91 dB loudspeaker, 4 digital microphones with active noise cancellation

SET CONTENT

Head Mounted Tablet with integrated battery, Semi Rigid Carrying Case, Overhead Strap, Rear Pad, Hard Hat Clips (3 pairs), i.safe PROTECTOR 1.0 Micro USB Cable, Power Adapter universal, Quick Start Manual and Safety Instructions

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

ZONE 1/21



4G telephony



**High-performance
battery for long
work shifts**



Amplified loudspeaker

IS120.1

The powerful and extremely robust mobile phone with the main functions of telephony and messaging (SMS). The device impresses with its grip and focuses on easy handling that does not distract from the essentials. Thanks to the powerful battery, it is ideal for long working shifts and is thus best designed for efficient business communication.

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< IS120.1 >

i.safe MOBILE



ATEX approval: EX-Zone 1/21
Ⓜ II 2G Ex ib IIC T4 Gb
Ⓜ II 2D Ex ib IIIC T135°C Db



IECEx approval: EX-Zone 1/21
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db

TECHNICAL FEATURES

Operating system	ISM-OS
Processor	MT6761D Quad-core; 1,8 GHz
Memory	2 GB RAM 16 GB internal memory
Frequencies	2G GSM: B2/3/5/8 3G WCDMA: B1/2/4/5/8 4G LTE-FDD: B1/2/3/4/5/7/8/20/28 4G LTE-TDD: B34/B38/39/B40/B41
Dimensions	size: 140 x 63 x 26 mm weight: 214 g
Display	2,4" Corning Gorilla Glass® 3. generation 240 x 320 pixels
Battery	2200 mAh replaceable
Connections	WiFi 2,4 GHz + 5 GHz: IEEE 802.11 a/b/g/n/ac with hotspot Bluetooth® 5
Types of protection	IP68 dust-/waterproof MIL-STD-810H usable from -20 °C to +60 °C

SET CONTENT

Mobile Phone, Battery, i.safe PROTECTOR 1.0 Micro USB Cable, Power Adapter universal, Screwdriver, Display Protection Foil, Quick Start Manual and Safety Instructions

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

**ZONE 1
CL I DIV 1**



**Remote Speaker
Microphone**



Push-To-Talk



ISM interface

IS-RSMG2.1

The wired remote loudspeaker microphone is specially designed for PTT applications. With its robust but lightweight housing and the secure ISM interface, this device is an ideal addition to our mobile devices IS330.1 and IS530.1. The dynamic loudspeaker is specially designed for noisy environmental conditions.

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IS-RSMG2.1



ATEX approval: EX-Zone 1
II 2G Ex ib IIC T4 Gb



IECEx approval: EX-Zone 1
Ex ib IIC T4 Gb



NEC500 approval:
Class I Division 1, Groups A B C D T4
Intrinsically Safe

TECHNICAL FEATURES

Loudspeaker	Dynamic 3-stage volume control Sensitivity: 93 dB (1 mW) Bandwidth: 50 Hz to 8 kHz
Microphone	Electret Omni-Directional Sensitivity: -38 dB \pm 3 dB (1 kHz) Bandwidth: 50 Hz to 16 kHz
Measurement	Size: 98,11 x 65,93 x 26,96 mm Weight: 212 g
Power supply	Over the connected device
Cable length	flexible spiral cable from 48 to 130 cm
Connection	ISM interface
Type of protection	IP54 Operation range from -20 °C up to +60 °C

SET CONTENT

Remote Speaker Microphone, Quick Start Manual and Safety Instructions

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

ZONE 1/21



Collecting vital data



GPS positioning

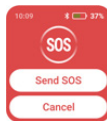


NFC time recording
and access control

IS-SW1.1



Clock



SOS Function



Pulse



Pulse (Graph)



SpO₂

The industrial smartwatch for ATEX/IECEx zones 1/21 for recording and displaying messages, hazard alarms and measured values. Coupled with i.safe MOBILE devices, it functions, for example, as a supplementary „hands-free“ display. This makes the smartwatch highly flexible in use.

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IS-SW1.1

i.safe MOBILE



ATEX approval: Ex-Zone 1/21
Ⓜ II 2G Ex ib IIC T4 Gb
Ⓜ II 2D Ex ib IIIC T135°C Db



IECEx approval: Ex-Zone 1/21
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db



UKEx approval: Ex-Zone 1/21
Ⓜ II 2G Ex ib IIC T4 Gb
Ⓜ II 2D Ex ib IIIC T135°C Db

TECHNICAL FEATURES

Operating system	ISM-OS
Memory	1 GB RAM 8 GB internal memory
Dimensions	size: 53,95 x 45,4 x 17,6 mm weight: 70 g
Display	1,6" (4,064 cm) touchscreen 320 x 360 pixels
Battery	500 mAh
Connections	WiFi 2,4 GHz Bluetooth® 5.1 GPS, Glonass, Beidou Near Field Communication
Types of protection	IP68 dust-/waterproof MIL-STD-810H usable from -20 °C to +55 °C
Extra information	Tensile test bracelet: 28 kgf (tear off)

FURTHER FEATURES



Collecting vital data
like SpO₂, Pulse



SOS key for loneworker protection
LWP ready (third party application required,
based on country specific regulations)



Vibration alarm



Accelerometer, gyroscope, magnetic,
pressure sensors

NOTE

The **IS-SW1.1** displays current values such as time, date, pulse, blood oxygen, steps counted and vital statistics.

Specially designed for industrial purposes, the **IS-SW1.1** has been equipped with advanced functionality, e.g. for displaying alarms, messages and information. In addition, the **IS-SW1.1** can be used for tracking, fencing, time recording/access control and sending emergency calls.

In order to be able to use all functions of the **IS-SW1.1**, additional customer-specific applications from third-party suppliers are required. These are not provided by i.safe MOBILE.

SET CONTENT

Smartwatch, Desktop Charger, Power Adapter universal, i.safe PROTECTOR 2.0, Screwdriver, Quick Start Manual and Safety Instructions

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

WWW.ISAFE-MOBILE.COM

EN

**ZONE 1/21
CL I, II, III DIV 1**



**Capture, analyze
and document
thermal images**

IS-TC1A.1



&



The set consisting of the thermal imaging camera IS-TC1A.1 and the industrial smartphone IS530.1 detects temperatures in the Ex-hazardous area from -40 °C to 330 °C in a matter of seconds via the Seek Thermal app (free download in Google Play Store). The thermal images and videos are processed and documented directly via the ISM interface of the IS530.1 smartphone.

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i.safe MOBILE

IS-TC1A.1



ATEX approval: Ex-Zone 1/21
Ⓜ II 2G Ex ib IIC T4 Gb
Ⓜ II 2D Ex ib IIIC T135°C Db



IECEx approval: Ex-Zone 1/21
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db



NEC500 approval applied for:
Class I, II, III Division 1
Groups A B C D E F G T4

TECHNICAL FEATURES

Sensor resolution	200 (h) x 150 (v) 30000 Pixels FixFocus Digital zoom over app
Sensor sensitivity	65 mK (typical)
Frame rate	<9 Hz to 32 Hz
Scene dynamic range	-40 °C to 330 °C
Temperature accuracy	± 7 °C and 7 % (at 5 °C to 140 °C) ± 10 °C and 10 % (at 140 °C to 330 °C)
Detection range	up to 300 m
Recognition range	up to 75 m
Identification range	up to 25 m
View range	35° (HFOV) 26° (VFOV)
Dimensions	size: 112 x 82 x 50 mm weight: 190 g
Power supply	over the connected mobile device
Communication	over the multi functional ISM interface of the IS530.1
Types of protection	IP68 MIL-STD 810H useable from -20 °C to + 55 °C



IS530.1



Android™ 13



4,5" Gorilla Glass®
3. generation,
resolution 854 x 480 pixels



3600 mAh battery,
replaceable,
3,8 V, 13,68 Wh



Bluetooth® 5



GSM 850/900/1800/
1900 MHz
WCDMA: UMTS B1/2/4/5/7/8/12
LTE-FDD: B1/2/3/4/5/7/8/12
with MFB1 B13/14/17/20/25/
26/28A/28B/29/30/66
LTE-TDD: B38/B39/B40/B41
TD-SCDMA: B34/B39



Qualcomm Snapdragon
SDM660 Octa-Core
Kryo Gold-Quad cores
2,2 GHz
Kryo Silver-Quad cores
1,8 GHz
4 GB RAM
64 GB internal memory



2,4 GHz + 5 GHz: IEEE
802.11 a/b/g/n/ac/e/k/r/h
with hotspot for max. 8
connections

The complete description you will find on our homepage: www.isafe-mobile.com

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

**ZONE 1/21
CL I, II, III DIV 1**



**1D or 2D
Barcode up to 18 m
scan distance**

IS-TH1xx.1



&



The mobile multifunctional set consisting of a Trigger Handle (hand-held barcode scanner) and an industrial smartphone IS530.x is a flexible combination for reliable data acquisition in Ex areas. The HID-active, ready-to-use high-performance scanner captures any 1D or 2D barcodes at close range of up to 6 meters or distances of up to 18 meters via the reliable Zebra OEM imager scan engines. The data is further processed directly via the IS530.x smartphone connected via the ISM interface.

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IS-TH1xx.1



ATEX approval: Ex-Zone 1/21
Ⓢ II 2G Ex ib op is IIC T4 Gb
Ⓢ II 2D Ex ib op is IIIC T135°C Db



IECEx approval: Ex-Zone 1/21
Ex ib op is IIC T4 Gb
Ex ib op is IIIC T135°C Db



NEC500 approval:
Class I Division 1, Groups A B C D T4
Class II Division 1, Groups E F G T135°C
Class III Division 1

Further approvals: JNIOOSH (Japan)

TECHNICAL FEATURES

Weight	MR = 380 g ER = 400 g (without IS530)
Size	202 x 90,4 x 125 mm
Indication function	Loudspeaker Vibration LED-Display
Power supply	Over IS530 this can be loaded in the handle
Communication	Over the multi functional ISM interface of the IS530
Type of protection	MIL-STD 810H IP68 dust-/waterproof usable from -20 °C to +60 °C

SCAN TYPES

- **IS-TH1MR.1** (mid range) with **Zebra SE4750 MR** | up to 6 m
- **IS-TH1ER.1** (extended range) with **Zebra SE4850 ER** | up to 18 m



IS530.1



Android™ 13



4,5" Gorilla Glass®
3. generation,
resolution 854 x 480 pixels



3600 mAh battery,
replaceable,
3,8 V, 13,68 Wh



Bluetooth® 5



GSM 850/900/1800/
1900 MHz
WCDMA: UMTS B1/2/4/5/8
LTE-FDD: B1/2/3/4/5/7/8/12
with MFBI B13/14/17/20/25/
26/28A/28B/29/30/66
LTE-TDD: B38/B39/B40/B41
TD-SCDMA: B34/B39



Qualcomm Snapdragon
SDM660 Octa-Core
Kryo Gold-Quad cores
2,2 GHz
Kryo Silver-Quad cores
1,8 GHz
4 GB RAM
64 GB internal memory



2,4 GHz + 5 GHz: IEEE
802.11 a/b/g/n/ac/e/k/r/h
with hotspot for max. 8
connections

The complete description you will find on our homepage: www.isafe-mobile.com

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

DATASHEET

VALVE SENSE INSPECTION



APPROVALS



ATEX approval: EX-Zone 1/21
 Ⓜ II 2G Ex ib IIC T4 Gb
 Ⓜ II 2D Ex ib IIIC T135°C Db



IECEx approval: EX-Zone 1/2
 Ex ib IIC T4 Gb
 Ex ib IIIC T135°C Db



NEC500 approval requested
 Class I, II, III Division 1
 Groups A B C D E F G T4

IS540.1 SMARTPHONE

TECHNICAL FEATURES SMARTPHONE MODEL M540A01

Operating system	Android™ 12
Processor	Qualcomm QCM6490
Memory	8 GB RAM 128 GB internal memory microSD memory up to 128 GB
Supported frequency bands	2G GSM: 850/900/1800/1900 MHz 3G WCDMA: B1/2/4/5/8 4G LTE-FDD: B1/2/3/4/5/7/8/12 MFBI B13/14/17/20/25/26/28/29/30/66/71 4G LTE-TDD: B38/39/40/41/42/43/48 5G NR: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n30/n38/n40/n41/n48/n66/n71/n77/n78/n79
Dimensions	Size: 180,0 x 84,9 x 20,6 mm weight: 422 g
Display	6" Gorilla Glass® 3 rd generation 1080 x 2160 pixels FHD
Battery	4400 mAh replaceable
Camera	48 MP AF rear camera 5 MP FF front camera
SIM support	1 nano SIM + eSIM
Connections	Wi-Fi 6: IEEE 802.11 a/b/g/n/ac/ax/e/k/r/v Bluetooth® 5.2 GPS, A-GPS, Glonass, A-Glonass, Beidou, Galileo Near Field Communication (NFC)
Ports in/out	16-pin ISM interface USB-C
Sensors	Accelerometer, Gyroscope, Light, Magnetic, Proximity, Pressure sensors
Types of protection	IP68 dust-/waterproof MIL-STD-810H usable from -20 °C to +55 °C



IS-VS1A.1 INSPECTION EQUIPMENT

TECHNICAL FEATURES MEASURING ELECTRONIC MODEL MVS1A01

Analog band width	20 ... 500 kHz
Input range	94 dBAE / 100 dBAE
Sampling rate	Res.: 2 MHz / 16 bit
Noise floor	<12 µVRMS (95 – 300 kHz)
Power consumption	<700 mW
Dimension	Size: 141,2 x 96,0 x 51,85 mm weight: 219,3 g
Operating temperature	Usable from -20 °C to +55°C



Please visit our website and you will find more information of our devices.

TECHNICAL FEATURES SENSORS

IS-SU150F1.1	Sensor Ultrasonic	
Frequency range	100 - 450 kHz	
Operating temperature	-40 °C ... + 120 °C	
Connector	SMB	
Shield Cross-Talk	> -80 dB	
Dimension	22,3 x 18,2 mm	
Weight	29 g	
IS-SU150F2.1	Sensor Ultrasonic	
Frequency range	100 - 450 kHz	
Operating temperature	-40 °C ... + 120 °C	
Connector	SMB	
Shield Cross-Talk	> -80 dB	
Dimension	22,3 x 37,5 mm	
Weight	63,4 g	
IS-SU030F2.1 (optional)	Sensor Ultrasonic	
Frequency range	25 - 80 kHz	
Operating temperature	-40 °C ... + 120 °C	
Connector	SMB	
Shield Cross-Talk	> -80 dB	
Dimension	22,3 x 37,5 mm	
Weight	64 g	
IS-SC120BB1.1	Sensor Cable	
Length	120 cm	2 pcs. / Set
Connector	SMB <-> SMB	
Sheathing	Braided hose	
Temperature range	-20 °C ... +60 °C	
Weight	20 g (each)	



TECHNICAL FEATURES WAVEGUIDE

IS-WGLF1.1	Waveguide Lock	
Diameter	55 mm	Waveguide Lock; fixation for sensor F1" indicates used sensor
Weight	79,5 g	
IS-WGxx.1	Waveguide	
Temperature range	> 120 °C and < -50 °C	
Dimension	220 x 7 mm	
Weight	89,8 g	



SET CONTENT

Measuring electronic IS-VS1A.1, Sensor IS-SU150F1.1, Sensor IS-SU150F2.1, Waveguide Lock IS-WGLF1.1, Waveguide IS-WGxx.1, 2 x Sensor Cable, Coupling medium, Coupling film, IS540.1 Smartphone, Battery, i.safe PROTECTOR 2.0 Type C USB Cable, Power Adapter universal, Screwdriver, Display Protection Foil, Display Cleaning Cloth, Quick Start Manual and Safety Instructions, Case

Please visit our website and you will find more information of our devices.

DATASHEET

VALVE SENSE INSPECTION



APPROVALS



ATEX approval: EX-Zone 1/21
 Ⓜ II 2G Ex ib IIC T4 Gb
 Ⓜ II 2D Ex ib IIIC T135°C Db



IECEx approval: EX-Zone 1/2
 Ex ib IIC T4 Gb
 Ex ib IIIC T135°C Db



NEC500 approval
 Class I, II, III Division 1
 Groups A B C D E F G T4



KCs approval
 Ex ib IIC T4
 Ex ib IIIC T135°C

IS540.1 SMARTPHONE

TECHNICAL FEATURES SMARTPHONE MODEL M540A01

Operating system	Android™ 12
Processor	Qualcomm QCM6490
Memory	8 GB RAM 128 GB internal memory microSD memory up to 128 GB
Supported frequency bands	2G GSM: 850/900/1800/1900 MHz 3G WCDMA: B1/2/4/5/8 4G LTE-FDD: B1/2/3/4/5/7/8/12 MFBI B13/14/17/20/25/26/28/29/30/66/71 4G LTE-TDD: B38/39/40/41/42/43/48 5G NR: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n30/n38/n40/n41/n48/n66/n71/n77/n78/n79
Dimensions	Size: 180,0 x 84,9 x 20,6 mm weight: 422 g
Display	6" Gorilla Glass® 3 rd generation 1080 x 2160 pixels FHD
Battery	4400 mAh replaceable
Camera	48 MP AF rear camera 5 MP FF front camera
SIM support	1 nano SIM + eSIM
Connections	Wi-Fi 6: IEEE 802.11 a/b/g/n/ac/ax/e/k/r/v Bluetooth® 5.2 GPS, A-GPS, Glonass, A-Glonass, Beidou, Galileo Near Field Communication (NFC)
Ports in/out	16-pin ISM interface USB-C
Sensors	Accelerometer, Gyroscope, Light, Magnetic, Proximity, Pressure sensors
Types of protection	IP68 dust-/waterproof MIL-STD-810H usable from -20 °C to +55 °C



IS-VS1A.1 INSPECTION EQUIPMENT

TECHNICAL FEATURES MEASURING ELECTRONIC MODEL MVS1A01

Analog band width	20 ... 500 kHz
Input range	94 dBAE / 100 dBAE
Sampling rate	Res.: 2 MHz / 16 bit
Noise floor	<12 µVRMS (95 – 300 kHz)
Power consumption	<700 mW
Dimension	Size: 141,2 x 96,0 x 51,85 mm weight: 219,3 g
Operating temperature	Usable from -20 °C to +55°C



Please visit our website and you will find more information of our devices.

TECHNICAL FEATURES SENSORS

IS-SU150F1.1	Sensor Ultrasonic	
Frequency range	100 - 450 kHz	
Operating temperature	-40 °C ... + 120 °C	
Connector	SMB	
Shield Cross-Talk	> -80 dB	
Dimension	22,3 x 18,2 mm	
Weight	29 g	
IS-SU150F2.1	Sensor Ultrasonic	
Frequency range	100 - 450 kHz	
Operating temperature	-40 °C ... + 120 °C	
Connector	SMB	
Shield Cross-Talk	> -80 dB	
Dimension	22,3 x 37,5 mm	
Weight	63,4 g	
IS-SU030F2.1 (optional)	Sensor Ultrasonic	
Frequency range	25 - 80 kHz	
Operating temperature	-40 °C ... + 120 °C	
Connector	SMB	
Shield Cross-Talk	> -80 dB	
Dimension	22,3 x 37,5 mm	
Weight	64 g	
IS-SC120BB1.1	Sensor Cable	
Length	120 cm	2 pcs. / Set
Connector	SMB <-> SMB	
Sheathing	Braided hose	
Temperature range	-20 °C ... +60 °C	
Weight	20 g (each)	



TECHNICAL FEATURES WAVEGUIDE

IS-WGLF1.1	Waveguide Lock	
Diameter	55 mm	Waveguide Lock; fixation for sensor F1" indicates used sensor
Weight	79,5 g	
IS-WGxx.1	Waveguide	
Temperature range	> 120 °C and < -50 °C	
Dimension	220 x 7 mm	
Weight	89,8 g	



SET CONTENT

Measuring electronic IS-VS1A.1, Sensor IS-SU150F1.1, Sensor IS-SU150F2.1, Waveguide Lock IS-WGLF1.1, Waveguide IS-WGxx.1, 2 x Sensor Cable, Coupling medium, Coupling film, IS540.1 Smartphone, Battery, i.safe PROTECTOR 2.0 Type C USB Cable, Power Adapter universal, Screwdriver, Display Protection Foil, Display Cleaning Cloth, Quick Start Manual and Safety Instructions, Case

Please visit our website and you will find more information of our devices.

DATASHEET

REALWEAR NAVIGATOR Z1



APPROVALS



ATEX approval: EX-Zone 1/21
Ⓜ II 2G Ex ib IIC T4 Gb
Ⓜ II 2D Ex ib IIIC T200°C Db



IECEx approval: EX-Zone 1/21
Ex ib IIC T4 Gb
Ex ib IIIC T200°C Db



UKCA approval: EX-Zone 1/21
Ⓜ II 2G Ex ib IIC T4 Gb
Ⓜ II 2D Ex ib IIIC T200°C Db



North America approval:
INTRINSICALLY SAFE
Class I Division 1 Groups ABCD T4
Class II Division 1 Groups EFG T200 °C,
Class III

Further approvals: IA (South Africa) | INMETRO (Brazil) | PCEC (China) | TIIS (Japan) | KCs (South Korea)

TECHNICAL FEATURES

Operating system	Android™ 12 (AOSP) + WearHF™ hands-free interface
Processor	Qualcomm® QCS6490
Memory	8 GB RAM 128 GB internal memory
Dimensions	Weight: 383 g
Display	0,35" 24° field-of-view, 24-bit color LCoS, outdoor visible 720 x 1280 pixels
Battery	2550 mAh Li-Ion removable and rechargeable for full shift use
Camera/Video	48 MP AF PDAF with LED flashlight Up to 1080p @ 60 fps, >6x zoom in HD, video stabilization. codecs: VP8, VP9, H.264, H.265 HEVC
Connections	Wi-Fi® 6/6E Bluetooth® 5.2 GPS, Glonass, Beidou, Galileo, NavIC, QZSS, SBAS
Interfaces	USB-C port 3,5 mm audio
Sensors	9-DOF (3-axis accelerometer, magnetometer, and gyroscope), software enhanced stabilization)
Types of protection	IP66 dust-/waterproof MIL-STD-810H usable from -20 °C to +55 °C
Supported languages	German, English, French, Spanish, Italian, Portuguese, Chinese, Turkish, Czech, Dutch, Russian, Norwegian, Danish, Polish, Indonesian, Japanese, Korean, Thai

FURTHER FEATURES

100 % hands-free operation thanks to intuitive voice control

Included applications: Document Navigator, Camera with Barcode Reader, Audio Recorder, Video Recorder, Webpage Viewer, Cloud Sync, Media Player, Calculator, Pedometer, Timer

Noise cancellation enables voice operation in high ambient noise areas up to 100 dBA.

Internal 94 dB open-air loudspeaker with a visual warning that must be acknowledged above 80 dB. Standard acoustic output level is below 76 dB.

SET CONTENT

REALWEAR NAVIGATOR Z1, Battery, i.safe PROTECTOR 2.0 USB-C Cable, Carrying Case, Screwdriver, Safety Instructions.

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.

**ZONE 1/21
CL I, II, III DIV 1**



13-pin ISM interface



Android™ 13

**Zero-touch capable
MDM compatible**

IS530.1

Android
Enterprise
Recommended



The high-performance industrial smartphone can be used in a variety of ways thanks to the ISM interface. Additional modules such as an RSM, PTT headsets, the professional IS-TH1xx.1 barcode scanner and the thermal camera IS-TC1A.1 make the IS530.1 a high-performance multifunctional device. The smartphone is Android Enterprise Recommended, zero-touch capable and MDM compatible.

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IS530.1



ATEX approval: EX-Zone 1/21
Ex II 2G Ex ib IIC T4 Gb
Ex II 2D Ex ib IIIC T135°C Db IP6X



IECEx approval: EX-Zone 1/21
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db IP6X



NEC500 approval:
Class I, II, III Division 1
Groups A B C D E F G T4



EAC approval:
1Ex ib IIC T4 Gb X
Ex ib IIIC T135°C Db X IP64

Further approvals: INMETRO (Brazil) | KCs (South Korea) | PCEC (China) | JNIOOSH (Japan) | SANS (South Africa)

TECHNICAL FEATURES

Operating system	Android™ 13
Processor	SDM660 Octa-Core (Kryo Gold-Quad cores 2,2 GHz; Kryo Silver-Quad cores 1,8 GHz)
Memory	4 GB RAM 64 GB internal memory microSD memory up to 128 GB
Frequencies	2G GSM: 850/900/1800/1900 MHz 3G WCDMA: UMTS B1/2/4/5/8 4G LTE-FDD: B1/2/3/4/5/7/8/12 with MFB1 B13/14/17/20/25/26/28A/28B/29/30/66 4G LTE-TDD: B38/B39/B40/B41 4G LTE-SCDMA: B34/B39
Dimensions	size: 155 x 80 x 25 mm weight: 325 g
Display	4,5" Gorilla Glass® 3. generation 854 x 480 pixels
Battery	3600 mAh, 3,8 V, 13,68 Wh replaceable
Camera	13 MP AF rear camera 5 MP FF front camera
Connections	WiFi 2,4 GHz + 5 GHz: IEEE 802.11 a/b/g/n/ac/e/k/r/h with max. 8 connections hotspot Bluetooth® 5 GPS, A-GPS, Glonass, Beidou, Galileo Near Field Communication
Types of protection	IP68 dust-/waterproof MIL-STD-810G usable from -20 °C to +60 °C

FURTHER FEATURES



SOS key for loneworker protection
LWP ready (third party application required,
based on country specific regulations)



13-pin ISM interface for a quick and safe
connection of additional devices for a
wide range of applications



Dual micro-SIM



Amplified loudspeaker



Magnetic charger port



Accelerometer, gyroscope, light, magnetic,
proximity, pressure sensors

SET CONTENT

Smartphone, Battery, i.safe PROTECTOR 2.0 Type C USB Cable, i.safe PROTECTOR 3.0 USB Magnetic Charger Cable, Power Adapter universal, Screwdriver, Display Protection Foil, Quick Start Manual and Safety Instructions

Please visit our website and you will find more detailed information, as well as an overview of compatible accessories.