

Telephones, Mobile phones/ Smartphones, Tablets

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## Telephones

### GAI-Tronics Auteldac 5



- IECEx certified
-  II 2 G &  II 2 GD ATEX Certified telephone for Gas and Dust
- INMETRO Approved for Gas and Dust
- Zone 1 & 2, Zone 21 & 22 Compliant models
-  (EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU)
- Fully compliant with TBR21 / TBR38
- Full keypad with 3 programmable memory buttons, or CB (0 button) variant
- Optional removable headset\*
- 90dB sounder (adjustable)
- Beacon / external sounder actuator
- Robust and weather resistant up to IP66
- Extended cord length available

The Auteldac 5 (A5) telephone is an ATEX and IECEx approved, weather resistant unit, designed to withstand arduous industrial atmospheres and environmental extremes.

Certified for safe operation in hazardous areas, the Auteldac 5 carbon loaded glass filled polyester enclosure eliminates risk of rust and corrosion.

Features such as 'electronic on-hook sensing' and 'electronic tone ringer' ensures an enclosure protection of up to IP66. Should the handset be left off-hook, the A5 will automatically revert to on-hook state after a period of 7 minutes (optional).

Auteldac 5 telephones come complete with an integral ringer with volume control and secondary beacon / external sounder actuator as standard. An inductive coupler is fitted to aid the hard of hearing. For hands-free telephone use, the Auteldac 5 headset\* version can be provided.

#### Connectivity: Standard Analogue

The standard analogue unit provides basic telephone functions and can be connected to any standard two-wire telephone line, including FXS ports, analogue PABX lines and PSTN.

#### Options:

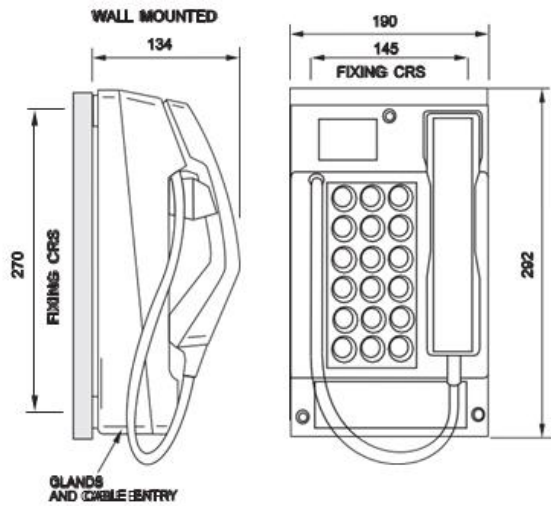
The handset has a choice of armoured stainless steel or curly cords.

#### 18 Button Full Keypad:

Included in the 18 button version, are 3 direct dial buttons for fast one touch dialling of pre-stored numbers or accessing low cost call facilities. Includes: M1- M3 Memory buttons, S 'Store', R 'Recall', LR 'Last number redial'

#### 0 Button CB

This can be used to initiate a PABX 'hotline' or lift handset and wait for reply, where the PABX does the call routing/dialling.

General Specifications	Dimensions			
<p><b>Enclosure:</b> Carbon loaded glass-filled polyester (colour: black)</p> <p><b>Surface resistance:</b> &lt;109□</p> <p><b>Handset:</b> Conductively coated polycarbonate handset with coiled cord or stainless steel spiral cord. Noise cancelling options. Extended cord lengths available.</p> <p><b>Keypad:</b> Weather-sealed tactile digital keypad</p> <p><b>Hookswitch:</b> Electronic with no mechanical moving parts</p> <p><b>Weather Ingress protection:</b> Up to IP66</p> <p><b>Ringin</b><b>g:</b> Shrill warble tone &gt;90 dBA @ 1 metre typical. Internal volume control.</p> <p><b>Power Supply:</b> Drawn from telephone line</p> <p><b>Integral Ring Detector:</b> Contact closure following the ringing cadence, rated at 230Vac, 3A r.m.s.</p> <p><b>Isolated hookswitch sensor:</b> Additional contact rated at 230 V ac, 150mA r.m.s.</p> <p><b>Parallel Terminal Block:</b> Duplicated line terminals allows connection to a parallel device without an additional junction box.</p> <p><b>Time Out:</b> Enforces a fixed call maximum time limit to 7 minutes from lifting of the handset. User selectable ON or OFF</p> <p><b>Dialling system:</b> LD or DTMF (switchable)</p> <p><b>Recall Button:</b> Internally switchable from Earth Loop Recall (600ms pulse) and Timed Break Recall 100ms, 250ms or 600ms.</p> <p><b>Certified Operating Temperature:</b> -20° C up to +60° C</p> <p><b>Relative Humidity:</b> Up to 95% (non-condensing) Weight: approx. 3.2 kg</p> <p><b>Headset:</b> The headset cord is approximately 820mm long and can extend to approximately 2m. The headset extension lead will allow the operator to use the headset over 6 metres away from the telephone</p>	<div></div> <div><table><tr><th>Approvals</th></tr><tr><td><p>CE This mark indicates compliance with the following directives: EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/ EU, RoHS 2 Directive 2011/65/EC, ATEX Product Directive 2014/34/EU, Tested to TBR21 / TBR38</p><p>The GAI-TRONICS Management System has been approved by LRQA to ISO9001, and ISO 14001.</p></td></tr><tr><td><p><b>Telephone Compliance</b></p><p><b>Baseefa14ATEX0362</b></p><p>II 2G Ex e ib mb IIC T4 Gb (-20°C ≤ Ta ≤ +60°C) II 2G Ex e ib mb IIC T5 Gb (-20°C ≤ Ta ≤ +50°C)</p><p>II 2D Ex ib tb IIIC T180°C Db (-20°C ≤ Ta ≤ +60°C)</p><p><b>IECEx BAS 14.0165</b></p><p>Ex e ib mb IIC T4 Gb (Ta = -20°C ≤ Ta ≤ +60°C)</p><p>Ex e ib mb IIC T5 Gb (Ta = -20°C ≤ Ta ≤ +50°C)</p><p>Ex ib tb IIIC T180°C Db (Ta = -20°C ≤ Ta ≤ +60°C)</p><p><b>Headset Compliance</b></p><p>II 2G EEx ib IIC T4 (-20°C ≤ Ta ≤ +40°C) TUV03ATEX2124</p></td></tr></table></div>	Approvals	<p>CE This mark indicates compliance with the following directives: EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/ EU, RoHS 2 Directive 2011/65/EC, ATEX Product Directive 2014/34/EU, Tested to TBR21 / TBR38</p> <p>The GAI-TRONICS Management System has been approved by LRQA to ISO9001, and ISO 14001.</p>	<p><b>Telephone Compliance</b></p> <p><b>Baseefa14ATEX0362</b></p> <p>II 2G Ex e ib mb IIC T4 Gb (-20°C ≤ Ta ≤ +60°C) II 2G Ex e ib mb IIC T5 Gb (-20°C ≤ Ta ≤ +50°C)</p> <p>II 2D Ex ib tb IIIC T180°C Db (-20°C ≤ Ta ≤ +60°C)</p> <p><b>IECEx BAS 14.0165</b></p> <p>Ex e ib mb IIC T4 Gb (Ta = -20°C ≤ Ta ≤ +60°C)</p> <p>Ex e ib mb IIC T5 Gb (Ta = -20°C ≤ Ta ≤ +50°C)</p> <p>Ex ib tb IIIC T180°C Db (Ta = -20°C ≤ Ta ≤ +60°C)</p> <p><b>Headset Compliance</b></p> <p>II 2G EEx ib IIC T4 (-20°C ≤ Ta ≤ +40°C) TUV03ATEX2124</p>
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### Ordering information

Type No.	Description	Order number
212-02-5028-400	Auteldac 5 Curly Cord 18btn blk 320mm n/c	<b>8089176</b>
212-02-5028-B00	Auteldac 5 Steel Cord 18btn	<b>8087737</b>

## GAI-Tronics Titan

### Metal Bodied Weather Resistant Telephone



- Standard and SMART Analogue and VoIP-SIP options available
- Vandal Resistant Handset and Cord
- Robust and weather resistant: IP54 to IP66
- Full keypad, full keypad with memory, CB and 1, 3 and 6 button programmable autodialler telephones
- Multi purpose design for wall or post mounting, simple installation
- Large tactile buttons, easy to see and operate
- Inductive Coupler fitted as standard for hard of hearing
- Standard or customised units
- Handset cord length options
- CE Compliant

Titan's aluminium body is robust and designed to look good and last longer in hostile outdoor environments. Along with weather and vandal resistance, the Titan range meets the acoustic performance, reliability and varying applications demanded by today's markets.

Titan is simple to install with fixings concealed from view giving increased security from vandalism. Cable entries are via water-tight glands while push buttons are weather sealed. Its spring loaded door also gives extra weather protection to the telephone. Connectivity options are:

#### Standard Analogue

The standard analogue unit provides basic telephone functions and can be connected to any standard two-wire telephone line, including FXS ports, analogue PABX lines and PSTN.

#### SMART Analogue

Self Monitoring And Reporting Telephone can be integrated with GAI-Tronics' TMA monitoring and maintenance software and/or GAI-Tronics CMA call centre. SMART gives advanced features including remote programming, fault monitoring and call logging, all from a line-powered telephone capable of operating up to 7km from the exchange on a two-wire cable.

#### Voice over IP (SIP protocol)

For connection to a VoIP enabled network, GAI-Tronics VoIP-SIP telephones offer direct connection to LAN or WAN via RJ45 connector, including Power-Over-Ethernet (PoE) as standard. GAI-Tronics VoIP-SIP phones offer a wealth of additional features including real-time reporting via Syslog, and can be configured by web browser.

#### Keypad Options:

##### 15 & 18 button Full Keypad

Included in the 18 button version, are 3 direct dial buttons for fast one touch dialling of pre-stored numbers or accessing low cost call facilities. The 15 and 18 keypad versions include: S 'Microphone mute' or 'Silence', R 'Recall', LR 'Last number redial'

##### 1, 3 6 & 18 button Autodiallers

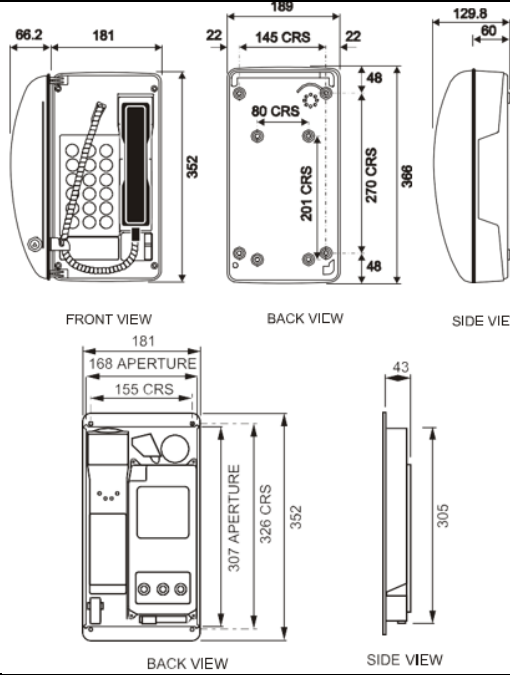




These models are programmable via an internal keypad. A microphone muting facility guards against unauthorised calls made with a remote MF tone pad. To make a call, simply lift the handset and press a single button. The pre-programmed number (up to 24 digits) will then dial automatically.

##### 0 button CB

This can be used to initiate a PABX 'hotline' or lift handset and wait for reply, where the PABX does the call routing/dialling. Autodial on handset lift also available



As well as the standard Titan range, GAI-Tronics can supply specials to order with customised options.

Technical Specifications	Dimensions
<p><b>Casing Material</b> Die cast aluminium, epoxy powder coated. Colours yellow or grey or special order</p> <p><b>Handset Material</b> Cycloxy (2850) with stainless steel spiral cord. Noise cancelling handset version available.</p> <p><b>Keypad</b> Weathersealed tactile digital keypad. Silicone rubber material, resistant to most chemicals and solvents</p> <p><b>Temperature</b> Operating: -40° C to +60° C Storing: -40° C to +70° C</p> <p><b>Weather Resistance</b> Door open - up to IP65 Door closed - IP66</p> <p><b>Ringing Tone</b> Shrill warble tone 80 dBA @ 1 metre typical Hookswitch Electronic / magnetic with no visible moving parts M.T.B.F. Calculated to have an M.T.B.F. in excess of 50,000 hours using MIL-HDBK-217F Notice 2</p> <p><b>Weight</b> Up to 5 kg depending on option</p>	 <p>FRONT VIEW BACK VIEW SIDE VIEW</p> <p>BACK VIEW SIDE VIEW</p>
Standard Analogue	Voice over IP-SIP
<p><b>Dialling</b> LD (pulse) or MF (tone). User selectable</p> <p><b>Time Out</b> Enforces a fixed call maximum time limit to 6-8 minutes from lifting the handset. User selectable</p> <p><b>Power supply</b> Drawn from telephone line</p> <p><b>Lightning / Transients</b> Protection to ITU-T k.21 enhanced levels</p> <p><b>Programming</b> Autodial numbers are pre-programmed via an integral keypad</p>	<p><b>Connection type</b> RJ45 socket (inside sealed enclosure)</p> <p><b>Power supply</b> External 24-48Vdc or Power-Over-Ethernet (PoE 802.3af compliant)</p> <p><b>Call set-up Protocol</b> Session Initiation Protocol (SIP) (RFC 3261) only</p> <p><b>Configuration</b> Via configuration file or web page. Static IP address provisioning or DHCP</p> <p><b>External I/O</b> 4 auxilliary inputs, 2 isolated relay outputs, capable of switching 230Vac</p> <p><b>Monitoring and reporting</b> Real-time over TCP/IP proprietary Syslog application</p>
Smart (Analogue)	Approvals
<p>All the features of the standard analogue unit plus:</p> <p><b>Remote programming</b> Auto-dial numbers, time-out and dial mode can be programmed over the phone line either from a tone phone or from monitoring software (TMA)</p> <p><b>Configuration</b> Remotely programmable via TMA</p> <p><b>Remote monitoring</b> Remote health-check and fault reporting, including handset integrity, either on a call-in or polled basis. TMA required.</p> <p><b>Call Logging</b> Records call time, duration and auto-dial number used. TMA required.</p>	 <p>This mark indicates compliance with the: Radio &amp; Telecommunications Terminal Equipment Directive 1999/5/EC (R&amp;TTE)</p>  <p>This mark indicates compliance for inductively coupling to Hearing Aids having a 'T' switch position Tested to ETS 300-381 and in accordance with ITU-T P37.</p> <p>For specific country approval, please call</p>  

## Ordering information

Type No.	Description	Order number
2000C2B21111C2A	Gai-Tronics Telephone Titan S/C 15 Button	8002887



## GAI-Tronics Outdoor Industrial Telephone Model 256-001



- Extended Temperature Range: - 40° to +140°F
- Standard Analog Telephone Line Powered (No External Power Required)
- Anti-corrosive Enclosure
- Braille Metallic Keypad
- Hearing Aid Compatible
- Non-movable Hookswitch
- Volume Control Handset
- Noise-canceling Microphone
- Non-volatile Electronic Memory (Stand-by Batteries Not Required)
- Conformally-coated Printed Circuit Board Assembly

GAI-Tronics' wide variety of indoor and outdoor Industrial Telephones are designed for those applications where standard telephones are not environmentally suitable. Such applications include public areas, plant entrances, college campuses, airports, commercial locations, parking garages and amusement parks.

Since GAI-Tronics' industrial telephones are often installed in the harshest environments, durability and performance are extremely important. The internal electronics (PCBA) are conformally coated for protection from moisture.

GAI-Tronics' industrial telephones include standard items such as a proximity detecting hookswitch with no moving parts and a sealed keypad to keep out dust, dirt and moisture. The sealed electronic ringer also prevents contaminants from entering the housing. Other standard features are noise-canceling micro-phones and volume control handset. These telephones are fully line powered, and do not require an internal battery.

The 246 indoor and 256 outdoor series Industrial Telephones are constructed of a non-metallic enclosure with an industrial strength six-foot Hytrel® handset cord. The Hytrel® cord is unique that it can withstand 250 pounds of pull-strength and remains flexible in the most extreme temperatures, unlike PVC cords that are limited to 40 pounds of pull-strength and begin to deteriorate at -14°F temperature range.

### Technical Specifications

Electrical	Approvals
<b>Current:</b> Minimum 20mA dc; Maximum 60mA dc <b>Voltage:</b> 24 V dc to 60 V dc (not polarity sensitive) <b>Signaling:</b> DTMF	<b>Safety of Information Technology Equipment:</b> UL/CSA 60950 <b>Enclosures for Electrical Equipment:</b> UL 50, Type 3R
Environmental	47 CFR Part 68
<b>Operating temperature range:</b> -40° to +60° C -40° to +140° F <b>Relative humidity:</b> to 95%, no condensation	<b>Certification Number:</b> US: ADGTE10A-46048HAC <b>Ringer Equivalence Number:</b> 1.3B <b>Network connections (USOC):</b> RJ11
Weight and Dimensions	IC Information (Canada)
<b>Dimensions:</b> 9.4 W x 13.2 H x 7.4 D inches <b>Weight:</b> 8.2 lbs.	IC Certification Number: 82211754 Ringer Equivalence Number: 1.3B Connection Method: CA11A
<b>Ringer Level</b> Door open: 91 dBA SPL Door Closed: 84 dBA SPL	<b>Pole-Mount Kits:</b> 230 Pole-mounting kit for 256 Series

### Ordering information

Type No.	Description	Order number
256-001	GAI-TRONICS Outdoor Industrial Telephone, Grey	8078444

## Mobile Phones / Smartphones



### i.safe Mobile Phone IS330.1

ZONE 1/21

CL I / DIV 1



#### Highlights:

- Android™ 9,
- Bluetooth® 5,
- huge internal memory 64 GB,
- multifunctional ISM interface,
- amplified loudspeaker,
- SOSkey,
- PTT-key,
- MCPTT ready

#### Technical Features

ATEX aproval applied to: ATEX zone 1/21 II 2G Ex ib IIC T4 Gb II 2D Ex ib IIIC T135°C Db IP6X	IECEX approval applied for: EX-Zone 1/21 Ex ib IIC T4 Gb Ex ib IIIC T135°C Db IP6X	Approval in North America applied for: Class I, II, III Division 1 Groups A B C D E F G, T4 Intrinsically Safe
Android™ 9	2,4GHz + 5GHz: IEEE 802.11a/b/g/n/ac/e/k/r/h with max. 8 connections hotspot	GSM 850/900/1800/ 1900 MHz WCDMA: UMTS B1/2/4/5/8 LTE-TDD: B38/B39/B40/B41 LTE-FDD: B1/2/3/4/5/7/8/12 with MFB1 B13/14/17/20/25/ 26/28A/28B/29/30/66 TD-SCDMA: B34/B39
Bluetooth® 5	Size: 152,8 x 62 x 26,7, weight: 306,5 g	Qualcomm Snapdragon SDM660 Octa-Core (Kryo Gold-Quad cores 2.2GHz; Kryo Silver-Quad cores 1.8GHz), 4 GB RAM, 64 GB internal memory
External memory microSD up to 128 GB	2 cameras: 13 MP AF rear camera and 5 MP FF front camera	
Dual nano SIM	Near Field Communication	
SOS-key Loneworker protection LWP ready (third party application required, based on country specific regulations)	Universal, lateral ISM interface	

### Further Features

Waterproof: 1 hour up to 2 m, impervious to dust and microparticles	Operation range from -20 °C to 60 °C	Drop-protection, tested against: vibrations, shock and extreme temperatures.
2,6" Gorilla Glass® 3. generation, resolution 320 x 432 pixel	Usable with gloves	Amplified loudspeaker
4050 (typ. 4200) mAh replaceable battery, 3,8V; 14,98Wh	GPS, A-GPS, Glonass, Beidou, Galileo	G-sensor, gyroscope, gravity, ambient light, magnetic- and proximity
Push-To-Talk PTT ready (third party application required, based on country specific regulations)		

### Contents

Mobile phone, battery, i.safe PROTECTOR 2.0 USB cable, charger, quick start manual and safety instructions

### Ordering Information

Description	Part Number
i.safe mobile phone, model IS330.1, zone 1/21	8095884





## i.safe Smartphone IS530.1

Zone 1/CI I Div1



The smart and innovative Zone 1/CI I Div1-smartphone with the most advanced technology:

First Bluetooth® 5 industrial smartphone with multifunctional ISM interface, a huge internal memory 64 GB and the highest camera resolution of its class.

### Technical Features

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	Approved for North America: Class I, II, III Division 1 Groups A B C D E F G, T4 Intrinsically Safe
Android™ 9	2,4GHz + 5GHz: IEEE 802.11a/ b/g/n/ac/e/k/r/h with max. 8 connections hotspot	GSM 850/900/1800/ 1900 MHz WCDMA: UMTS B1/2/4/5/8 LTE-TDD: B38/B39/B40/B41 LTE-FDD: B1/2/3/4/5/7/8/12 with MFB1 B13/14/17/20/25/ 26/28A/28B/29/30/66 TD-SCDMA: B34/B39
Bluetooth® 5	Size: 155 x 80 x 25 mm, weight: 325 g	Qualcomm Snapdragon SDM660 Octa-Core Kryo Gold-Quad cores 2.2GHz Kryo Silver-Quad cores 1.8GHz 4 GB RAM 64 GB internal memory 54 GB accessible
External memory microSD up to 128 GB	2 cameras: 13 MP AF rear camera and 5 MP front camera	
Dual micro SIM	Near Field Communication	
SOS-key for additional app	Universal, lateral ISM interfa, ce	

### Further Features

Waterproof: 1 hour up to 2 m, impervious to dust and microparticles	Operation range from -20 °C to 60 °C	Drop-protection, tested against: vibrations, shock and extreme temperatures.
4,5" Gorilla Glass® 3. generation, resolution 854 x 480 pixel	Usable with gloves	Amplified loudspeaker
3600 mAh battery, replaceable, 3,8V; 13,68Wh	GPS, A-GPS, Glonass, A-Glonass, Beidou, Galileo	Location, gyroscope, gravity, ambient light, magnetic- and proximity
Push-To-Talk PTT ready (third party application required, based on country specific regulations)	Loneworker protection LWP ready (third party application required, based on country specific regulations)	Quick charge with magnetic charging port

### Contents

Smartphone, battery, i.safe PROTECTOR 2.0 USB cable, i.safe PROTECTOR 3.0 USB cable, charger, quick start manual and safety instructions

### Ordering Information

Description	Part Number
i.safe Smartphone, model IS530.1, zone 1/CI I Div1	8095886



# i.safe Smartphone IS540.1

Zone 1/21



The innovative 5G smartphone with a clear 6-inch display presents the most advanced technology:

Industrial smartphone with huge internal memory of 128 GB with possible extension, 8 GB RAM, high-quality processor, 16-pin ISM interface and top-level main camera resolution of 48 MP.

### Approvals

<b>ATEX approval:</b> <ul style="list-style-type: none"><li>- EX-Zone 1/21</li><li>- II 2G Ex ib IIC T4 Gb</li><li>- II 2D Ex ib IIIC T135°C Db</li></ul>	<b>IECEx approval:</b> <ul style="list-style-type: none"><li>- EX-Zone 1/21</li><li>- Ex ib IIC T4 Gb</li><li>- Ex ib IIIC T135°C Db</li></ul>	<b>NEC500 approval:</b> <ul style="list-style-type: none"><li>- Class I, II, III Division 1</li><li>- Groups A B C D E F G, T4</li></ul> <p>Further approvals: PCEC (China), TIIS (Japan), INMETRO (Brazil), IA (South Africa)</p>
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### Technical Features

<b>Operating system</b> Android™ 12	<b>Processor</b> Qualcomm® QCM6490 Octa Core	<b>Dimensions</b> Size: 180,0 x 84,9 x 20,6 mm, weight: 422 g
<b>Memory</b> <ul style="list-style-type: none"><li>- 8GB RAM</li><li>- 128 GB Internal memory</li></ul>	<b>Battery</b> 4400 mAh   replaceable	<b>Display</b> 6"   Corning® Gorilla® Glass 3 <sup>rd</sup> generation   1080 x 2160 pixels   FHD
<b>External memory</b> microSD up to 128 GB	<b>Camera</b> <ul style="list-style-type: none"><li>- 48 MP AF rear camera</li><li>- 5 MP FF front camera</li></ul>	<b>SIM support</b> 1 nano SIM + eSIM

<b>Supported frequency bands</b> - 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 with 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	<b>Connections</b> - 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)	<b>Sensors</b> - Accelerometer - Gyroscope - Light - Magnetic - Proximity - Pressure sensors
<b>Ports in / out</b> 16-pin ISM interface USB-C	<b>Types of protection</b> IP68 dust/waterproof MIL-STD-810H Usable from -20 °C to +55 °C	<b>Further features</b> Red key top   Optional functions assignable via Button App (system integrated), e.g., LWP/SOS Side key left   Optional functions assignable via Button App (system integrated), e.g., PoC/PTT Amplified loudspeaker

#### Set Content

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.

#### Ordering Information

Description	Part Number
i.safe Smartphone, model IS540.1, zone 1/21	8115138

## EX-SM14

### Work smarter in harsh environment

This rugged smartphone BCom Rough Pro EX-SM14 houses unlimited professional possibilities: Dual SIM Quad Band, seamless data exchange, Bluetooth and much more.

**Waterproof:** The BCom Rough Pro EX-SM14 can be submerged in water for 40 minutes, even at 1.2 meters depth. It's the waterproof phone that can handle any humid location. It brings reliable communication to offshore, maritime and extremely humid environments.

**Rugged and shockproof:** BCom Rough Pro is extremely robust, and even MIL-STD-810G certified. As a result, this rugged smartphone resists shocks to a far-reaching extent. It's what makes them so ideal for usage in the maritime environment, oil & gas and chemical industry.

**Connected on every level:** BCom Rough Pro ensures you're always connected. Its Dual SIM Quad Band enables smarter roaming solutions. Data exchange is possible via WIFI or a mobile network. Data and voice connections run simultaneously. Moreover, Bluetooth connectivity enables countless extras such as helmet communication, LEL meter and more.


**Android OS:** Android-based, BCom Rough Pro smartphones can run numerous applications: track & trace, man down, compass... They will seamlessly fit into your enterprise's workflows.

**Readable in broad daylight:** The smartphone's 4.5" display is easily readable at all circumstances - even when sunlight is shining directly onto the screen.

**Enterprise graded:** BCom Rough Pro smartphones meet the requirements of your enterprise's IT infrastructure. They can run specific, tailor-made applications using the Remote Device Management Solution (RDMS).



### Technical specifications

Smartphone	Ex-SM14	
Ex-proof		ATEX / IECEx: II 2 G Ex ib IIC T4 Gb, II 2 D Ex ib IIIC T135 °C Db
Ingress Protection Rating	IP68 Waterproof 40 min. submersed in 1.2 meters water	
Certificate	KIWA 14ATEX 0009X	
Camera	8 Megapixel back/ 2 Megapixel camera front Also available without cameras. Please specify EX-SM14nc when ordering.	
Display	4.5 Inch (LCD) high impact resistant WVGA 1280x720 with high brightness capacity	
Bluetooth	4.0	
Telecom network support	GSM:850/900/1800/1900MHz WCDMA:850/1900/2100 MHz High Speed Downlink Packet Access: 42.2 Mbps Uplink speed : 11,5 Mbps	
Wifi	802.11 b/g/n	
Sensors	GPS, A-GPS, EPO, Accelerometer, Gyro, Compass, Auto light sensor	
OS	Android 4.4 (Kit Kat)	
Chipset	MTK, MT6589T Coretex A7 with PowerVR Series5XT GPU (28nm architecture)	
CPU Speed	Quad core 1.5 Ghz	
Memory	1 Gigabyte	
Storage Memory	3 Gigabyte. optional: 32 GB SD card	
Battery	Li-ion minimum 2200 mAh	
Special features	Dual Sim / Dual Standby / Man Down /Track Trace / Additional Bluetooth integration	
Operating Temperature	-20°C to +55 °C	
Dimensions	76x148x18mm(WxLxD)	
Weight	209 gram	
Integration	Remote Management Device Software/ Live Video & audio conference Streaming applications/ Push to Talk /3rd party Database integration	

Ordering information

Description	Part no.
BCOM Smartphone Rough Pro EX-SM14	8074403
Screen Protection For BCOM Smartphone Rough Pro EX-SM14	8067795



## Tablets and Equipment



### i.safe Tablet IS 930.1

Zones 1/21 and 1/CI I Div1



The IS930.1 is the tablet for use in ATEX Zones 1/21 and 1/CI I Div1. The 8" tablet is highly robust, powerful and offers many technical advantages:

- 8.400 mAh Battery,
- Qualcomm Snapdragon SDM 660,
- NFC,
- Android™ 9.0.

#### Technical Features

ATEX: EX-Zone 1/21 II 2G Ex ib IIC T4 Gb II 2D Ex ib IIIC T135°C Db IP6X	IECEX: Ex-Zone 1/21 Ex ib IIC T4 Gb Ex ib IIIC T135°C Db IP6X	Approval applied for North America: Class I, II, III Division 1 Groups A B C D E F G, T4 Intrinsically Safe
Approval applied for Russia: 1Ex ib IIC T4 Gb X Ex ib IIIC T135°C Db X IP64	Android 9.0	GSM 850/900/1800/ 1900 MHz WCDMA: UMTS B1/2/4/5/8 LTE-TDD: B38/B39/B40/B41 LTE-FDD: B1/2/3/4/5/7/8/12 with MFBI B13/14/17/20/25/ 26/28A/28B/29/30/66 TD-SCDMA: B34/B39
2,4GHz + 5GHz: IEEE 802.11a/ b/g/n/ac/e/k/r/h with max. 8 connections hotspot	Bluetooth® 5.0	Qualcomm Snapdragon SDM660 Octa-Core Kryo Gold-Quad cores 2.2GHz Kryo Silver-Quad cores 1.8GHz 4 GB RAM 64 GB internal memory 54 GB accessible
size: 237 x 156 x 22 mm, weight: 890 g	external memory microSD up to 128 GB	
Near Field Communication	magnetic charging port	
2 cameras: 13 MP AF rear camera and 5 MP front camera	SOS-key for additional app	

### Further Features

waterproof: 1 hour up to 2 m, impervious to dust and microparticles	operation range from -20 °C to 60 °C	8" RugDisplay-Glass multi capacitive touchscreen with a resolution of 1200 x 1920 pixel
usable with gloves	8.400 mAh battery	GPS, A-GPS, Glonass, A-Glonass, Beidou, Galileo
Location, acceleration, gravity, linear acceleration, gyroscope, ambient light, temperatur and humidity, magnetic, proximity and preassure sensor	Push-To-Talk PTT ready (third party application provided)	Loneworker protection LWP ready (third party application provided)

### Contents

Tablet with integrated battery, charger, i.safe PROTECTOR 2.0 USB cable, i.safe PROTECTOR 3.0 USB cable, quick start manual and safety instructions

### Ordering Information

Description	Part Number
i.safe Tablet, model IS930.1, zones 1/21 and 1/CI I Div1	8095887



## i.safe Hands-free Tablet HMT-1Z1



Safer. Faster. Smarter.

The HMT-1Z1 is the world's first

intrinsically safe hands-free

Android™ tablet class wearable

computer for industrial workers.

### Technical Features

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	Approved for North America: Class I, II, III Division 1 Groups A B C D E F G, T4 Intrinsically Safe
Android™ 8.1.0 + WearHF™ hands-free interface	2.4GHz and 5GHz: 802.11a/b/g/n/ac	Bluetooth® 4.1 LE
2.0 GHz Qualcomm Snapdragon 625 with Adreno 506 GPU - OpenGL ES3.1 & OpenCL 2.0, 2 GB RAM, 16 GB internal memory weight: 430 g	external memory microSD card	Includes applications: document navigator, camera with barcodereader, video recorder, media player
	16 MP 4-image stabilized, PDAF with LED flashlight	

### Further Features

protected against dust and water, 2 meter drop	drop-protection, tested against: extreme temperatures, barometric pressure, humidity and vibrations.	20° field-of-view, 1 m fixed focus, 24-bit color LCD, 0.33 inch diagonal, outdoor visible, resolution WVGA 854 x 480 pixel
100% hands free	Internal 91dB loudspeaker 4 digital microphones with active noise cancellation	integrated 3400 mAh battery, full shift (9-10 hrs) with typical use
GPS, Glonass, BeiDou, Baidu A-GPS	PPE COMPATIBLE Designed to work with standard hard helmets, bump caps and safety glasses	

**Contents**

Head-mounted tablet with integrated battery, Semi Rigid Carrying Case, overhead strap, rear pad, hard hat clips (3 pairs), USB cable i.safe PROTECTOR, charger, quickstart manual and safety instructions,

**Ordering Information**

Description	Part Number
i.safe Hands-free Tablet HMT-1Z1	8095889



## i.safe Wireless Remote Speaker Mic IS RSM1.1



The wireless remote speaker mic allows professional use of push-to-talk via Bluetooth.

In addition, the IS-RSM1.1 can also be used as a speakerphone.

The IS-RSM1.1 is sensible complemented with a SOS button

### Technical Features

ATEX approval: EX-zone II 2G Ex ib IIC T4 Gb II 3D Ex ic IIIB T135°C Dc IP54	IECEX approval: EX-zone 1/22 Ex ib IIC T4 Gb Ex ic IIIB T135°C Dc IP54	size: 87 x 56 x 25 mm, weight: 126 g
950 mAh battery	amplified speaker	intercom, volume control and channel selection
charging with micro USB	push-to-talk	red SOS button
operation range from -20 °C to 60 °C		

### Contents

Remote speaker microphone, USB cable i.safe PROTECTOR, charger, quick start manual and safety instructions

### Ordering Information

Description	Part Number
i.safe Wireless Remote Speaker Mic IS RSM1.1, zone 1/22	8095892



# i.safe Handheld Reader IS-MP.1

Zone 1/21



The IS-MP.1 is a handheld reader for easy and efficient reading of RFID/NFC TAGs located closely together or positioned in areas that are difficult to access.

The TAG information can be viewed directly on the OLED display, transferred via Bluetooth or read from the storage via USB.

## Technical Features

ATEX Zulassung: 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	vibration feedback
size: 190 x 30 x 35 mm, weight: 130 g	1000mAh, up to 2.000 Bluetooth readings	memory for 1.000 readings
Bluetooth® 4.0 LE	OLED-display	1-3 cm reading distance
RFID/NFC tag-reader*: LF 125kHz, LF 134,2 kHz FDX-B + HDX, HF and NFC 13,56 MHz, UHF 868 MHz		

\* = Allows individual configuration

## Further Features

IP64 certified applications available for ANDROID OS and WIN OS	operation range from -20 °C to 60 °C	real-time clock
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**Contents**

IS-MP.1, USB cable i.safe PROTECTOR, charger, quick start manual and safety instructions

**Ordering Information**

Description	Part Number
i.safe Handheld Reader IS-MP.1, zone 1/21	8095901