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INNOVATE DESIGN ENGINEER ACHIEVE

**ecom**

MOBILE SAFETY



Intrinsically Safe Smartphone **Smart-Ex® 01**

**DELIVERING MOBILITY**  
IN HAZARDOUS AREAS

# Smart-Ex<sup>®</sup> 01



ZONE 1 / 21, ZONE 2 / 22

CLASS 1 / DIV 1

CLASS 1 / DIV 2

## Intrinsically Safe Smartphone **Smart-Ex<sup>®</sup> 01**

THE LATEST HIGH END PRODUCT IN THE RANGE OF MOBILE COMMUNICATION

### RANGE OF FUNCTIONS

- 4G / LTE-standard
- Android™ 4.4 (Kitkat) - Latest Android 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
- 8 MP rear camera with auto focus and LED flash with torchlight function and 1 MP front camera (optional)
- 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
- 5-pins water-proof magnetic USB 2.0 High Speed connector
- IP68 - Dust proof, water proof
- Push-to-talk (App solution)
- Lone Worker Protection (App solution)
- Optional Service Level Agreement (SLA)

# EXPERIENCE THE SMART-EX® 01 SMARTPHONE

ZONE 1/21. DIV. 1

ZONE 2/22. DIV. 2



## CERTIFICATION

### ATEX



Ⓔ II 2 G Ex ib IIC T4 Gb IP64

Ⓔ II 2 D Ex ib IIIC T135°C Db IP6X

### IECEX



Ex ib IIC T4 Gb IP64

Ex ib IIIC T135°C Db IP6X

### NEC & CEC



Class I, Division 1, Groups A-D T4

Class II & III, Div. 1, Groups E-G T4

## WE DON'T ASK, WE ACT! SERVICE LEVEL AGREEMENT (OPTIONAL)

With the optional SLA, for full three years warranty, all new ecom mobile phones enables „total cost of ownership certainty“ and demonstrate the confidence in terms of product quality and reliability.

ecom will guarantee free repairs including all spare and worn parts (except batteries) with a five-day turnaround.



# Smart-Ex<sup>®</sup> 01

## ANDROID™ 4.4 (KIT KAT®) - LATEST ANDROID OPERATING SYSTEM

ANDROID™ 4.4 enables this intrinsically safe device to be used in hazardous areas without any compromises compared to conventional smartphones:

- Collaborative Working
- Audits & Inspection
- Operator rounds
- Asset Tracking
- Monitoring
- Process Automation
- Indoor/ Outdoor Tracking & Navigation
- Safety / Security
- Man Down - Lone Worker Protection
- Push to talk



### 4.0" CAPACITIVE MULTI-TOUCH SCREEN

Made of extreme shock and scratch-resistant Gorilla Glass® 2, the large display increases the workers productivity due to the larger work surface.

The brightness, sharpness and resolution is much more easier on the eyes.

Whether wearing gloves or having wet fingers, the multi-touch display is always easy and exact to use.

Google Play Store certification cleans the way for more than 700,000 software applications. The FOTA (Firmware Over The Air) ability keeps the device everytime up to date. Just as you're used to it with your private Smartphone.

## WORKER SAFETY WITH SMART-EX 01

An ultra-rugged, LTE/ WiFi/ Android smartphone, the Smart-Ex® 01 comes with unrivalled features:

- Such as a touch screen that can be viewed in direct sunlight and easily used with dirty or wet work gloves.
- An extremely loud speaker, noise cancellation, a powerful battery, water and drop resistance and an optional 3-Year Service Level Agreement 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 accessories completes the solution.

In extreme and often dangerous working environments where every step is critical, you don't settle for less than the best – Smart-Ex® 01.





# MAKE ALL THE DIFFERENCE

## ALSO AVAILABLE

ZONE 2/22. DIV.2	EX-HANDY 09	ZONE 1/21. DIV. 1	ZONE 2/22. DIV.2	EX-HANDY 08	ZONE 1/21. DIV. 1
					
<ul style="list-style-type: none"> <li>• Android™ 4.4 Kitkat®</li> <li>• Keypad + Touchscreen</li> <li>• 4G LTE</li> <li>• Weight: approx. 330g</li> </ul>			<ul style="list-style-type: none"> <li>• Nucleus</li> <li>• Keypad</li> <li>• 3G UMTS</li> <li>• Weight: approx. 200g</li> </ul>		
<p><b>SLA + Lone Worker Protection (optional)</b></p>			<p><b>NQA + Lone Worker Protection (optional)</b></p>		

## SCOPE OF DELIVERY

- Smart-Ex® 01
- Li-Ion battery 3600mAh (built-in)
- Charger TC S01
- Safety Box SB S01
- Belt Clip BC S01
- Needle (for opening SIM Slot)
- Documentation

- 9th generation of I.S. mobile phones (reliability track record)
- Quality control conducted in Germany, based on almost 30 years experience in the Ex-market
- Mobile Network provider approvals: AT&T, Bell, Telus-approved and listed
- Significant software development team ensures network compatibility
- TCO = Total Cost of Ownership
- ROI = Return on Investment

# Smart-Ex<sup>®</sup> 01

TECHNICAL DATA		
CORE PLATFORM / FUNCTIONS		
Operating System	Android 4.4	
Chipset	MSM8926 1.2 GHz Quad core	
Band	4G / LTE-standard EU: B1, B3, B7, B8, B20, B38 (TDD) US: B1, B2, B3, B4, B5, B7, B8, B12, B14, B17	Quad Band UMTS 850 / 900 / 1900 / 2100 MHz Quad Band GSM 850 / 900 / 1800 / 1900 MHz
Antenna	MIMO antenna for LTE	
WiFi	802.11 a / b / g / n dual-band, WiFi Direct, WiFi Hotspot	
Memory	16GB Internal Storage / 1GB RAM	
User memory	12GB	
Applications	Google Play	
CONNECTIVITY		
Bluetooth SMS, MMS (text, image, audio, video)	BT4.0 / BLE (Low Energy) Support SMS and MMS	
GPS, NFC	GPS, GLONASS, NFC	
Languages supported	Arabic, Simplified Chinese, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Persian, Polish, Portuguese, Romanian, Russian, Spanish, Swedish, Turkish	
Email Client	EAS, Gmail, POP3, IMAP	
Connectivity		
Capacity (mAh)	3600 mAh	
Battery Life	Up to 1000 hours Stand by, up to 40 hours talk time	
PHYSICAL CHARACTERISTICS		
Ambient temperature	-20°C.....+55°C	
Protection class	IP68	
Size	137 mm x 72.1 mm x 26,9 mm (5.39" x 2.54" x 1,05")	
Weight	approx. 380 g	
Certifications	FCC, PTCRB, IEEE1725, CEC, Bluetooth SIG, WFA, IC	
Dedicated Keys	PTT key / Alarm key / Power key	
Ports	3.5 mm audio connector / Magnetic USB connector plug	

DISPLAY	
Size	4.0 inch
Type	Corning Gorilla® Glass 2 with Glove Touch, Blanview Display
Resolution	WVGA [480x800]
Outdoor Visibility	Yes
Capacity	16.7 M color
Audio	
Microphone	Dual Mic Solution with Noise cancellation
Speaker	19 mm Loud Speaker with Gore® Protective Vents, Output up to 103 dB
MULTIMEDIA	
Audio Formats	MP3, WMA 9, AAC, ACC+, eAAC+, AMR-NB/WB
Video Formats	Support AVI, MP4, 3GPP
Media Player	Android native + GMS
FM Radio	Yes
Camera	8 MP auto focus rear, 1 MP fixed focus front
LED torch light	Yes

## OPTIONAL ACCESSORIES / PERIPHERAL DEVICES

- Car charger
- Leather case
- Leather holtster
- Single-bay desktop charger
- 4-bay desktop charger
- USG connector plug
- Stylus
- Non-IS stereo headset
- IS headset „ComCom Ex“
- IS in-ear noise reduction headset „Serenity SPC Ex“
- Bluetooth Remote Speaker Mic “Ex-RSM Aurelis BT”

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