

ecom

MOBILE SAFETY



Smart-Ex 01 & Ex-Handy 09

**DELIVERING MOBILITY
IN HAZARDOUS AREAS**

Smart-Ex®

EXPLORING MOBILITY

Organizations are now starting to see the capability of mobility solutions and the impact they can have on operations, reducing cost and improving efficiency. Game changing new devices are enabling break-throughs in workforce productivity, data quality and the speed and accuracy of decision making.

The world's first Intrinsically Safe 4G / LTE Smartphone, the Smart-Ex® 01 Android operating system. Unlocked and SIM free - allowing connection to any network worldwide. The 9th generation of the Intrinsically Safe cell phones from ecom certified and approved for use in Zone 1 & DIV 1 incl. Dust Ex-areas.

ZONE 1 / 21, ZONE 2 / 22

DIV 1 / DIV 2

NEW
Smart-Ex® 01
Ex-Handy 09

Intrinsically Safe Smartphone **Smart-Ex® 01/201** THE LATEST INNOVATIVE PRODUCT IN ECOM'S MOBILE COMMUNICATION RANGE

RANGE OF FUNCTIONS

- SIM lock free
- 4G / LTE cellular network connectivity
- Android™ 4.4 (Kitkat) - the most popular 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
- 8MP rear camera with auto focus and LED flash with torchlight function and 1MP front camera (optional)
- 3600 mAh Li-Ion battery pack
- 4800 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
- Magnetic and waterproof USB 2.0 High Speed connector
- IP68 - Dust proof, water proof
- Push-to-talk (App solution)
- Lone Worker Protection (App solution)
- NFC functionality
- Optional Service Level Agreement 3 years (SLA)

EXPERIENCE THE SMART-EX® 01 / 201 SMARTPHONE



| CERTIFICATION | | |
|---|---|--|
| | SMART-EX® 01 | SMART-EX® 201 |
| ATEX  | Ⓢ II 2G Ex ib IIC T4 Gb IP64 Ⓢ II 2D Ex ib IIIC T135 °C Db IP64 | Ⓢ II 3G Ex ic IIC T4 Gc IP64 Ⓢ II 3D Ex ic IIIB T135 °C Dc IP64 |
| IECEX  | Ex ib IIC T4 Gb IP64 Ex ib IIIC T135 °C Db IP64 | Ex ic IIC T4 Gc IP64 Ex ic IIIB T135 °C Dc IP64 |
| NEC & CEC  | Class I, Division 1, Groups A-D T4 Class II & III, Division 1, Groups E-G T4 | Class I, Division 2, Groups A, B, C, D, T4 |

Smart-Ex®

ANDROID™ 4.4 - MOST POPULAR ANDROID OPERATING SYSTEM

ANDROID™ 4.4 enables this intrinsically safe device to be used in hazardous areas without any compromises compared to conventional Smartphones for these applications and many more. With the online integration and the use of a variety of applications the Smart - Ex® 01 / 201 allows an efficiency potential:



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

ecom
App-library

www.ecom-ex.com/apps

WORKER SAFETY WITH SMART-EX 01/201

An ultra-rugged, LTE/ WiFi/ Android Smartphone, the Smart-Ex® 01 / 201 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 / 201 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.

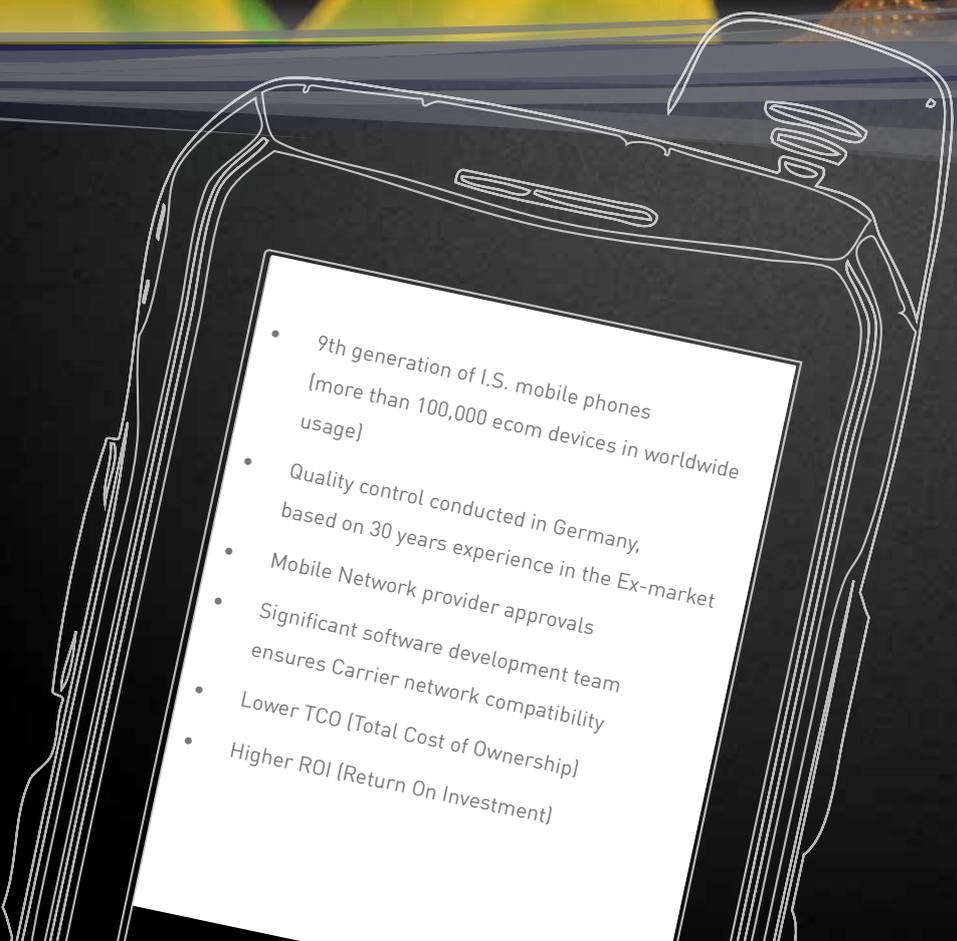
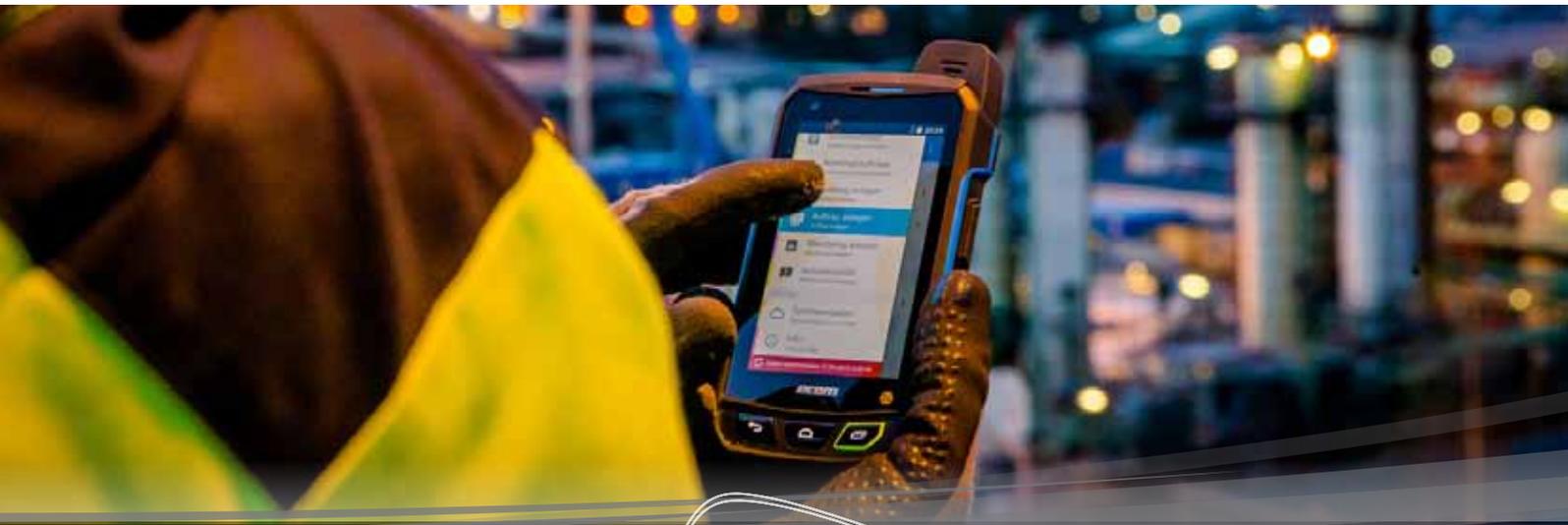
In extreme and often dangerous working environments where every step is critical, you don't settle for less than the best – Smart-Ex® 01 / 201.

MAKE ALL THE DIFFERENCE

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. And, the brightness, sharpness and high resolution is easier on the eyes. The multi-touch display remains easy and accurate to use, even when used with gloves or wet fingers.

Google Play Store certification provides access to more than 700,000 software applications. And, if you need your device to stay up to date, FOTA (Firmware Over The Air) does this automatically and securely - just as your personal phone does.



- 9th generation of I.S. mobile phones (more than 100,000 ecom devices in worldwide usage)
- Quality control conducted in Germany, based on 30 years experience in the Ex-market
- Mobile Network provider approvals
- Significant software development team ensures Carrier network compatibility
- Lower TCO (Total Cost of Ownership)
- Higher ROI (Return On Investment)

SCOPE OF DELIVERY

- Smart-Ex® 01 / Smart-Ex® 201
- Li-Ion battery 3600mAh (built-in)
Li-Ion battery 4800mAh (built-in)
- Charger TC S01
- Safety Box SB S01 / USB Data cable PC S201
- Belt Clip BC S01 / S201
- Needle (for opening SIM Slot)
- Documentation

Smart-Ex [®]

| TECHNICAL DATA | | |
|--|--|--|
| CORE PLATFORM / FUNCTIONS | | |
| | ZONE 1 | ZONE 2 |
| Operating System | Android 4.4 | Android 4.4 |
| Chipset | MSM8926 1.2 GHz Quad core | MSM8926 1.2 GHz Quad core |
| Band | 4G / LTE-Standard Quad Band UMTS 850 / 900 / 1900 / 2100 MHz Quad Band GSM 850 / 900 / 1800 / 1900 MHz EU: B1, B3, B7, B8, B20, B38 (TDD) US: B1, B2, B3, B4, B5, B7, B8, B12, B17 | 4G / LTE-Standard Quad Band UMTS 850 / 900 / 1900 / 2100 MHz Quad Band GSM 850 / 900 / 1800 / 1900 MHz EU: B1, B3, B7, B8, B20, B38 (TDD) US: B1, B2, B3, B4, B5, B7, B8, B12, B17 |
| Antenna | MIMO antenna for LTE | MIMO antenna for LTE |
| WiFi | 802.11 a / b / g / n dual-band, WiFi Direct, WiFi-Hotspot | 802.11 a / b / g / n dual-band, WiFi Direct, WiFi Hotspot |
| Memory | 16 GB Internal Storage / 1GB RAM | 16 GB Internal Storage / 1GB RAM |
| User memory | 12 GB | 12 GB |
| Applications | Google Play | Google Play |
| CONNECTIVITY | | |
| Bluetooth SMS, MMS (text, image, audio, video) | BT4.0 / BLE (Low Energy) Support SMS and MMS | BT4.0 / BLE (Low Energy) Support SMS and MMS |
| GPS, NFC | GPS, GLONASS, NFC | GPS, GLONASS, NFC |
| Languages supported | Arabic, Simplified Chinese, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Swedish, Turkish | Arabic, Simplified Chinese, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Swedish, Turkish |
| Email Client | EAS, Gmail, POP3, IMAP | EAS, Gmail, POP3, IMAP |
| Capacity (mAh) | 3600 mAh | 4800 mAh |
| Battery Life | Up to 1000 hours Stand by, up to 40 hours talk time | Up to 1000 hours Stand by, up to 40 hours talk time |
| PHYSICAL CHARACTERISTICS | | |
| Ambient temperature | -20°C.....+55°C | -20°C.....+55°C |
| Protection class | IP68 | IP68 |
| Size | 137 mm x 72.1 mm x 26.9 mm (5.39" x 2.54" x 1,05") | 137 mm x 72.1 mm x 20.8 mm (5.39 x 2.54 x 0,82") |
| Weight | approx. 370 g | approx. 290 g |

| | | |
|---------------------------|---|---|
| Dedicated Keys | PTT key / Alarm key / Power key | PTT key / Alarm key / Power key |
| Ports | 3.5 mm audio connector | 3.5 mm audio connector |
| DISPLAY | | |
| Size | 4.0 inch | 4.0 inch |
| Type | Corning Gorilla® Glass 2 with Glove Touch, Blanview Display | Corning Gorilla® Glass 2 with Glove Touch, Blanview Display |
| Resolution | WVGA (480x800) | WVGA (480x800) |
| Outdoor Visibility | Yes | Yes |
| Capacity | 16.7 M color | 16.7 M color |
| Audio | | |
| Microphone | Dual Mic Solution with Noise cancellation | Dual Mic Solution with Noise cancellation |
| Speaker | 19 mm Loud Speaker with Gore® Protective Vents, Output up to 103 dB | 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 | MP3, WMA 9, AAC, ACC+, eAAC+, AMR-NB/WB |
| Video Formats | Support AVI, MP4, 3GPP | Support AVI, MP4, 3GPP |
| Media Player | Android native + GMS | Android native + GMS |
| FM Radio | Yes | Yes |
| Camera | 8MP auto focus rear, 1MP fixed focus front | 8MP auto focus rear, 1MP fixed focus front |
| LED torch light | Yes | Yes |

OPTIONAL ACCESSORIES / PERIPHERAL DEVICES

- Car charger
- Leather case
- Leather holster
- Single-bay desktop charger
- 4-bay desktop charger
- Stylus
- IS headset "ComCom Ex"
- IS in-ear noise reduction headset "Serenity SPC Ex"
- Bluetooth Remote Speaker Mic "Ex-RSM Aurelis BT"
- Non-IS stereo headset

Ex-Handy

| CERTIFICATION | | |
|---|--|--|
| | EX-HANDY 09 | EX-HANDY 209 |
| ATEX  | Ⓢ II 2G Ex ib IIC T4 Gb IP64 Ⓢ II 2D Ex ib IIIC T135 °C Db IP64 | Ⓢ II 3G Ex ic IIC T4 Gc IP64 Ⓢ II 3D Ex ic IIIB T135 °C Dc IP64 |
| IECEX  | Ex ib IIC T4 Gb IP64 Ex ib IIIC T135 °C Db IP64 | Ex ic IIC T4 Gc IP64 Ex ic IIIB T135 °C Dc IP64 |
| NEC & CEC  | Class I, II, III Division 1 Groups AG T4 | Class I, Division 2, Groups A,B,C,D, T4 |

Intrinsically Safe Featurephone **Ex-Handy 09 / 209**

ZONE 1 / 21, ZONE 2 / 22 , DIV 1 / DIV 2

RANGE OF FUNCTIONS

- Sim lock free
- Touch Screen and Numeric Keypad
- High Visibility Display in Direct Sunlight
- 4G LTE cellular network connectivity
- Android™ 4.4 Kit Kat® Operating System
- Wifi 802.11 a/b/g/n with hotspot feature
- Long Battery Life
- Powerful Loudspeaker
- Protection from micro particles
- Waterproof to IP68 standards
- High Shock/Vibration Resistance
- Extreme Temperature Resistance
- Resistant to extreme pressure
- High puncture resistance
- Resistant to most oils and chemicals
- Optional Service Level Agreement 3 years (SLA)
- PTT - Push to talk (optional)

EXPERIENCE THE EX-HANDY 09/209 FEATUREPHONE

**ZONE 2/22. DIV 2****SLA +
Lone Worker
Protection
(optional)**

OPTIONAL ACCESSORIES / PERIPHERAL DEVICES

- Car charger
- Leather case
- Leather holster
- Single-bay desktop charger
- 4-bay desktop charger
- USB connector plug
- Stylus
- IS headset "ComCom Ex"
- IS in-ear noise reduction headset "Serenity SPC Ex"
- Bluetooth Remote Speaker Mic "Ex-RSM Aurelis BT"
- Non-IS stereo headset

SCOPE OF DELIVERY

- Ex-Handy 09 / 209
- Li-Ion battery 3600mAh (built-in)
Li-Ion battery 4800mAh (built-in)
- Charger TC S01
- Safety Box SB S01 / USB data cable
PC S201
- Belt Clip BC H09 / H209
- Needle (for opening SIM Slot)
- Documentation

TECHNICAL DATA

CORE PLATFORM / FUNCTIONS

| | ZONE 1 | ZONE 2 |
|------------------|--|--|
| Operating System | Android 4.4 | Android 4.4 |
| Chipset | MSM8926 1.2 GHz Quad core | MSM8926 1.2 GHz Quad core |
| Band | 4G / LTE-Standard Quad Band UMTS 850 / 900 / 1900 / 2100 MHz Quad Band GSM 850 / 900 / 1800 / 1900 MHz EU: B1, B3, B7, B8, B20, B38 (TDD) US: B1, B2, B3, B4, B5, B7, B8, B12, B17 | 4G / LTE-Standard Quad Band UMTS 850 / 900 / 1900 / 2100 MHz Quad Band GSM 850 / 900 / 1800 / 1900 MHz EU: B1, B3, B7, B8, B20, B38 (TDD) US: B1, B2, B3, B4, B5, B7, B8, B12, B17 |
| WiFi | 802.11 a / b / g / n dual-band, with Hotspot feature | 802.11 a / b / g / n dual-band, with Hotspot feature |
| Memory | 8GB Internal Storage / 1GB RAM | 8GB Internal Storage / 1GB RAM |
| User memory | 4GB | 4GB |
| Applications | Google Play Store applications | Google Play Store applications |

CONNECTIVITY

| | | |
|--|--|--|
| Bluetooth SMS, MMS (text, image, audio, video) | BT4.0 / BLE (Low Energy) Support SMS and MMS | BT4.0 / BLE (Low Energy) Support SMS and MMS |
| GPS, NFC | GPS, GLONASS | GPS, GLONASS |
| Languages supported | Arabic, Simplified Chinese, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Swedish, Turkish | Arabic, Simplified Chinese, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Swedish, Turkish |
| Email Client | EAS, Gmail, POP3, IMAP | EAS, Gmail, POP3, IMAP |
| Capacity (mAh) | 3600 mAh | 4800 mAh |
| Battery Life | Up to 1000 hours Stand by, up to 40 hours talk time | Up to 1000 hours Stand by, up to 40 hours talk time |

PHYSICAL CHARACTERISTICS

| | | |
|---------------------|--|--|
| Ambient temperature | -20°C.....+55°C | -20°C.....+55°C |
| Protection class | IP68 | IP68 |
| Size | 137 mm x 65 mm x 26.9 mm [5.39" x 2.54" x 1.05"] | 137 mm x 65 mm x 20.5 mm [5.39" x 2.54" x 1.05"] |
| Weight | approx. 330 g | approx. 270 g |
| Dedicated Keys | PTT key / Alarm key / Power key | PTT key / Alarm key / Power key |
| Ports | 3.5 mm audio connector | 3.5 mm audio connector |

| DISPLAY | | |
|--------------------|---|---|
| Size | 2.6 inch | 2.6 inch |
| Type | Corning Gorilla® Glass 2 with Glove Touch, Blanview Display | Corning Gorilla® Glass 2 with Glove Touch, Blanview Display |
| Resolution | 432 x 320 | 432 x 320 |
| Outdoor Visibility | Yes | Yes |
| Capacity | 16.7 M color | 16.7 M color |
| Audio | | |
| Microphone | Dual Mic Solution with Noise cancellation | Dual Mic Solution with Noise cancellation |
| Speaker | 19 mm Loud Speaker with Gore® Protective Vents, Output up to 103 dB | 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 | MP3, WMA 9, AAC, ACC+, eAAC+, AMR-NB/WB |
| Video Formats | Support AVI, MP4, 3GPP | Support AVI, MP4, 3GPP |
| Media Player | Android native + GMS | Android native + GMS |
| FM Radio | Yes | Yes |
| Kamera | - | 5-MP Autofocus camera back side |
| LED torch light | Yes | Yes |

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