

ecom

MOBILE SAFETY



Smart- Ex 01 & Ex-Handy 09

DELIVERING MOBILITY
IN HAZARDOUS AREAS

Paragon

Data Systems, Inc.



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.

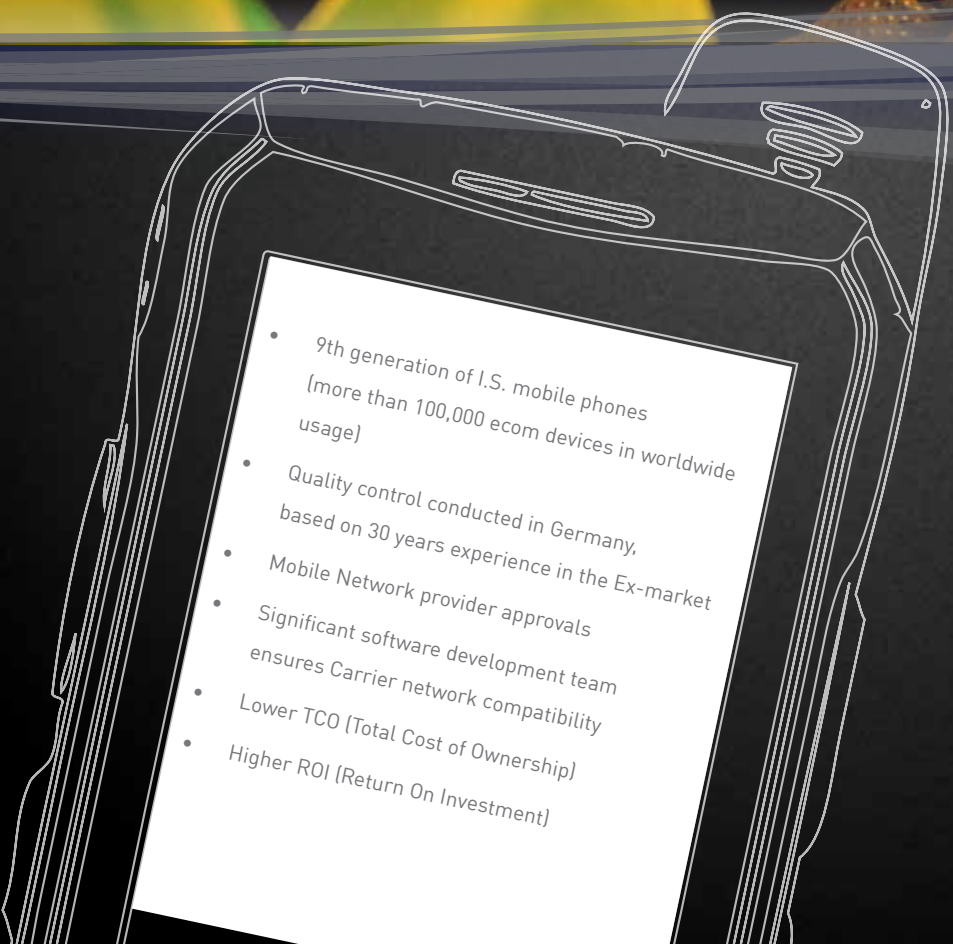
In extreme and often dangerous working environments where every step is critical, you don't settle for less than the best – Smart-Ex® 01 / 201.

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.



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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