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Mobile Computing and Communications

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Smartphone
Smart-Ex® 02

coming soon

The Smart-Ex 02® is the world's first intrinsically safe, Android Enterprise Recommended (AER) smartphone for Div. 1 and Zone 1/21. The rugged device features a large, high-resolution display, an ergonomic design, and optimized accessories. Designed to support a range of LTE frequency bands, the Smart-Ex 02 has no SIM lock and can be connected to different networks worldwide.

An Android 9 operating system enables the intrinsically safe device to work safely, quickly, and efficiently. With the most powerful replaceable battery on market (4400 mAh), longer shifts and 24-hour work coverage are possible.

Highlights:

- 4G / LTE standard (SIM unlocked)
- Supports 21 LTE bands (check with local carrier for details)
- Android 9 operating system
- 3 GB RAM, 32 GB ROM
- Up to 128 GB additional memory with microSD
- WiFi Standard 802.11 a/b/g/n/ac/e/k/r/h
- WiFi 2.4 GHz and 5 GHz support
- Bluetooth® 4.2 incl. BLE
- GPS / A-GPS / GLONASS / BeiDou / Galileo / NFC
- 2 cameras: 12 MP camera with autofocus and LED flash + 5 MP camera
- Waterproof magnetic USB 2.0 connection
- Replaceable 4400 mAh battery

NEC & CEC	ATEX	IECEx
(pending)	*(pending)*	*(pending)*

Feature Phone
Ex-Handy 10

The Div. 1 and Zone 1 certified Ex-Handy 10 4G/LTE feature phone is perfect for a wide range of applications—from pure communication to Push-to-Talk (PTT) to lone worker protection and innovative IIoT applications. It supports a range of LTE bands and offers both keypad and touch screen operation. A high-resolution, IP68-rated Gorilla® Glass display can be operated with gloves.

The Ex-Handy 10 is designed for the harshest environments (-20 °C to +60 °C) and has good readability in direct sunlight. It features an optional 8 MP camera that includes autofocus, LED flash, and flashlight. An advanced rechargeable battery and energy management enable outstanding operation times.

Highlights:

- 4G / LTE standard (SIM unlocked)
- Supports 21 LTE bands (check with local carrier for details)
- Android 8.1 operating system
- 2 GB RAM, 16 GB ROM
- Up to 128 GB additional memory with microSD
- WiFi Standard 802.11 a/b/g/n/ac/e/k/r/h
- WiFi 2.4 GHz und 5 GHz support
- Bluetooth® 4.2 incl. BLE
- GPS / A-GPS / GLONASS / BeiDou / NFC
- 8 MP camera with autofocus, LED flash, and flashlight function
- Water-resistant magnetic USB 2.0 connection
- Replaceable 4400 mAh battery

NEC & CEC

(pending)

ATEX

IECEx

Android Tablet
Tab-Ex® 02

Building on the foundation of the world's first series of tablets for hazardous areas, the second Tab-Ex® generation offers innovative features that make IIoT applications easy to implement. An eight-inch display allows easy interaction with SCADA/DCS, augmented reality, and enterprise-level systems.

The Tab-Ex 02 series offers a range functions that enhance mobility for both conventional and future applications: higher processing power, enhanced security, improved image quality, and easier operation. Versions are available for use in Div. 2 / Zone 2 (DZ2) and Div. 1 / Zone 1 (DZ1) hazardous areas.

Highlights:

- Global certifications—one common platform
- Replaceable SIM
- Android 8.1 operating system
- -20 °C ... +50 °C temperature range
- Sensor/gyroscope enable augmented reality
- Samsung Knox enhances data security and usability
- Rugged design with IP68 and MIL standard
- High-quality 8 MP / 5 MP camera with autofocus function
- Fast processor and high storage capacity
- Powerful 4450 mAh battery
- Suitable for use with gloves
- NFC technology for wireless applications
- GPS

NEC & CEC

(pending)

ATEX

(pending)

IECEx

(pending)

Windows Tablet

Pad-Ex® 01

Pad-Ex® 01 is rugged mobility at its finest. The ultra-compact Windows® 10 tablet for Div. 2 / Zone 2 hazardous areas features an eighth generation Intel® Core™ i5 processor and battery life up to 7/14 hours. The combination of durability, superior performance, and a large display makes the device an ideal addition to or replacement for desktop PCs, laptops, or wall-mounted displays.

The Pad-Ex 01 complies with IP64 and MIL-STD-810G vibration standards. Additional display protection offers complete durability in harsh environments, and an ergonomic design makes it easy to transport.

Highlights:

- IP64
- MIL-STD-810G
- 11.6 in (29.46 cm) widescreen, sunlight-readable display
- Capacitive multi-touch screen
- 1D / 2D barcode scanner (optional)
- 5 MP autofocus camera with LED flash
- 8th generation Intel® Core™ processor
- Windows® 10 Pro
- 4G LTE supported
- GPS / augmented reality supported
- Intel wireless AC 9260 802.11 a/b/g/n/ac
- Bluetooth® 5.0
- Service level agreement
- Custom software load

CSA

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Smart Watch
Smart-Ex® Watch 01

coming soon

Based on the Samsung Galaxy Watch, the Smart-Ex® Watch 01 is the first smart watch for Div. 2 / Zone 2. It can be synced with ecom devices like the Smart-Ex 02 smartphone for a new form of hands-free communication in hazardous areas.

Hands-free navigation via advanced voice control and wrist gestures simplifies operation. A rotating bezel allows for intuitive, quick, and easy scrolling through apps and instructions, even with gloves. The powerful battery can run for up to five days, and the GPS can be used for up to 28.5 hours.

Highlights:

- Compatible with Smart-Ex 02 smartphone and Ex-Handy 10 feature phone
- Gorilla® Glass display
- -15 °C ... 50 °C temperature range
- Hands-free navigation via advanced voice control
- Powerful battery—up to 5 days of power
- GPS usage up to 28.5 hours

NEC & CEC

(pending)

ATEX

⟨Ex⟩

(pending)

Ex-Camera
CUBE 800

Designed for safe operation in Ex-certified and rugged environments, the CUBE 800 brings hands-free collaboration to the world's toughest locations. Dual cameras allow users to choose between optical and thermal modes. A magnetic auto-latch mount provides an easy and secure way to attach the camera to a hard hat or headband. Its multipurpose design enables hands-free, handheld, and monopod use to capture visuals in hard-to-reach places.

The CUBE 800 can be used to share live videos and images via the Onsight platform. Simply pair the CUBE 800 to a mobile device such as the Smart-Ex 02.

Highlights:

- 13 MP camera (3 x digital zoom)
- Automatic focus and white balance
- Integrated LED light and Class 1 laser pointer
- Efficient cooperation with the Smart-Ex 02 and other ecom devices
- Dual camera system with HD optics and thermal imaging technology
- Remote collaboration with experts via Onsight Connect
- Multi-use design: mount to a helmet or headband. Attach a monopod, or use handheld, for hard-to-reach areas.
- Record video and store pictures with continuous capture for instant replay
- Custom software load

ATEX

(pending)

IECEx

(pending)

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Explosion Protection

- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex® Fieldbus
- Remote I/O Systems
- Electrical Ex Equipment
- Purge and Pressurization
- Industrial HMI
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Fieldbus Modules
- AS-Interface
- Identification Systems
- Displays and Signal Processing
- Connectivity

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