Proven Industrial Design and User Interface

PEPPERL+FUCHS

Smart-Ex® 203: Future-Proof
5G Smartphone Designed for
Zone 2/22 and Division 2

Your automation, our passion.

PEPPERL+FUCHS

Digitalizing Hazardous and Industrial Areas.

Pepperl+Fuchs Enterprise Mobility Solutions are designed to meet customer needs and drive future-focused digitalization. Offering a comprehensive one-stop solution—from hardware to MDM, 5G, and infrastructure partnerships—our portfolio enables seamless digital transformation in both conventional and IIoT applications.

By connecting mobile workers to digital workflows, we enhance safety, efficiency, and transparency across operations. Our solutions transform industrial devices (HazLoc and industrial-grade) into smooth, integrated workflows, empowering frontline workers with IIoT infrastructure.

Globally recognized as pioneers in explosion protection and sensor technology, Pepperl+Fuchs leverages decades of expertise to deliver tailored components and solutions that meet specific customer requirements.

Unique Value Proposition

Our integrated, cross-functional solution portfolio connects infrastructure, devices, and people, driving digital transformation while maintaining the highest safety standards. This results in greater flexibility, improved productivity, simplified processes and lower costs, with a single point of contact for all needs.

From components and mobile devices to MDM solutions, infrastructure and deployment services, our team of engineers supports the entire journey. And with our global service and support network, Pepperl+Fuchs is always close by, at all times.

Enabling the Digital Transformation

Camera
- 48 MP camera suitable for various use cases
- 16 MP front camera

High Performance
- Qualcomm QCM4490 Processor
- 8 GB RAM, 128 GB storage
- 5G and 4G
- Wi-Fi® 6
- Bluetooth 5.2
- GPS, GLONASS, Galileo, QZSS, BeiDou
- NFC

Dedicated Keys
- User-programmable buttons for special functions, e.g. push-to-talk, camera, alarms
- Ergonomics, user-friendliness, and key position

Operating System
- Latest Android™ operating system
- Android Enterprise Recommended
- Google ARCore certified

Power
- Powerful replaceable battery for a full working day (4500 mAh)

Connectivity
- USB 3.1 Type-C
- Optional: Short-range scanning module with Zebra SE4107 OEM scan engine

Zone 2/22 · Class II Div. 2 · made with Qualcomm Technologies

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The Smart-Ex 203 extends the well-established and widely recognized Smart-Ex® smartphone series, offering a dedicated solution for mobile applications in Zone 2/22 and Division 2.

A skilled workforce plays a vital role in industry today, especially in critical sectors such as energy, manufacturing, and chemicals. The integration of digital technology and IoT is enabling a connected workforce, ushering in a new era. Our Mobile Worker concept leverages mobile devices, asset tracking, analytics, and wearables to enhance both employee efficiency and safety.

With the global service and support structure and remote support provided by Pepperl+Fuchs, sales specialists and system application engineers are available in more than 80 countries worldwide to solve any challenge.

Features
- 6.3-inch display: robust Gorilla Glass 3; high contrast and easy to read in sunlight
- Slim protective frame
- Dual SIM (eSIM/Nano SIM)
- Part of holistic accessory concept
- Future-oriented for AR applications or digital processes
- Three-year service contract available

Smart, Safe, Powerful

Equipped with 5G and Wi-Fi 6, the Smart-Ex 203 sets new standards for flexible deployment in public and private networks of mobile network providers or the companies themselves. This provides users with state-of-the-art communication and collaboration capabilities through fast and secure transmission of large volumes of data: from remote support to video conferencing, digital radio communication with minimal latency via push-to-talk over cellular (PTToC) and combination with an extensiverange of peripheral devices.

Innovative monitoring of the smartphone's device status and an intelligent battery concept ensure smooth operation and fast problem solving. Convenient operation and Android 14, Android Enterprise Recommended, and Google ARCore put user benefits at the forefront. Make your processes smart!

Safety:
Android operating system ensures that company data and processes are secure

Reliable partnership:
Secure supply chain and fast delivery directly from stock through bundled competencies within the Pepperl+Fuchs Group

Global service and support:
International sales specialists and application engineers in over 80 countries, combined with innovative solutions and service concepts, and a three-year service contract

Network flexibility and operator compatibility:
Broad range of wireless carrier certifications and network approvals

Convenient operation in the field:
User-friendly product and interface design for an exceptional user experience

Investment and IT security:
Android Enterprise Recommended certification guarantees Android security patches and upgrade options
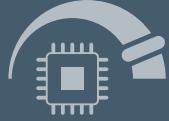
High performance:
5G functionality and Qualcomm processor provide security and reliability
- High data throughput, low latency
- Protection of sensitive corporate data through particularly secure and dedicated 5G campus networks

Enterprise Mobility Concept:
Maximum efficiency in terms of digitalization and cost savings

Improved business processes:
Tailored to the diverse software applications and fields of application such as communication, digital workflows and order management, operational safety or augmented reality

Cellular Technology

5G technology represents a revolutionary leap forward in connectivity by enabling lightning-fast downloads, seamless streaming, and supporting emerging technologies such as augmented reality and the Internet of Things (IoT). It holds immense potential for industries and makes the hazardous area-rated Smart-Ex 203 ideally suited for use in maintenance and servicing work.

There are three different types of network technologies:

Public Networks

These are the familiar, traditional cellular networks. Many public networks have been supporting 4G LTE for a while and are now supporting 5G to further improve data throughput, low latency, and a better overall experience. The Smart-Ex 203 is ready to make use of this enhanced capability of 5G on a number of public networks.

Advantages

- Highest security and reliability for users
- High data throughput with low latency
- Precise localization of objects in the field

Private/Campus Networks

These networks are structurally similar to the public networks with some differences. One of these differences is the RF bands that it operates on and who can access these networks. Depending on how the network is structured, the Smart-Ex 203 can be used to access a company's own private and secure network on 4G and 5G bands. In addition to a much wider area of coverage than a Wi-Fi network can provide, a private cellular network can provide enhanced security protecting sensitive data.

Network Slicing

While supported to some extent in 4G, 5G adds many advantages and abilities that 4G is not able to support. In a 5G environment, network slicing is a method of using a common physical infrastructure to support multiple virtual and independent networks. This allocation can be adjusted depending on the needs of the application, allowing for better control of the network and a better experience with a given amount of RF bandwidth. Each virtual network can have its own requirements, quality of service (QoS), security and latency requirements, all optimized for the function of the virtual network.
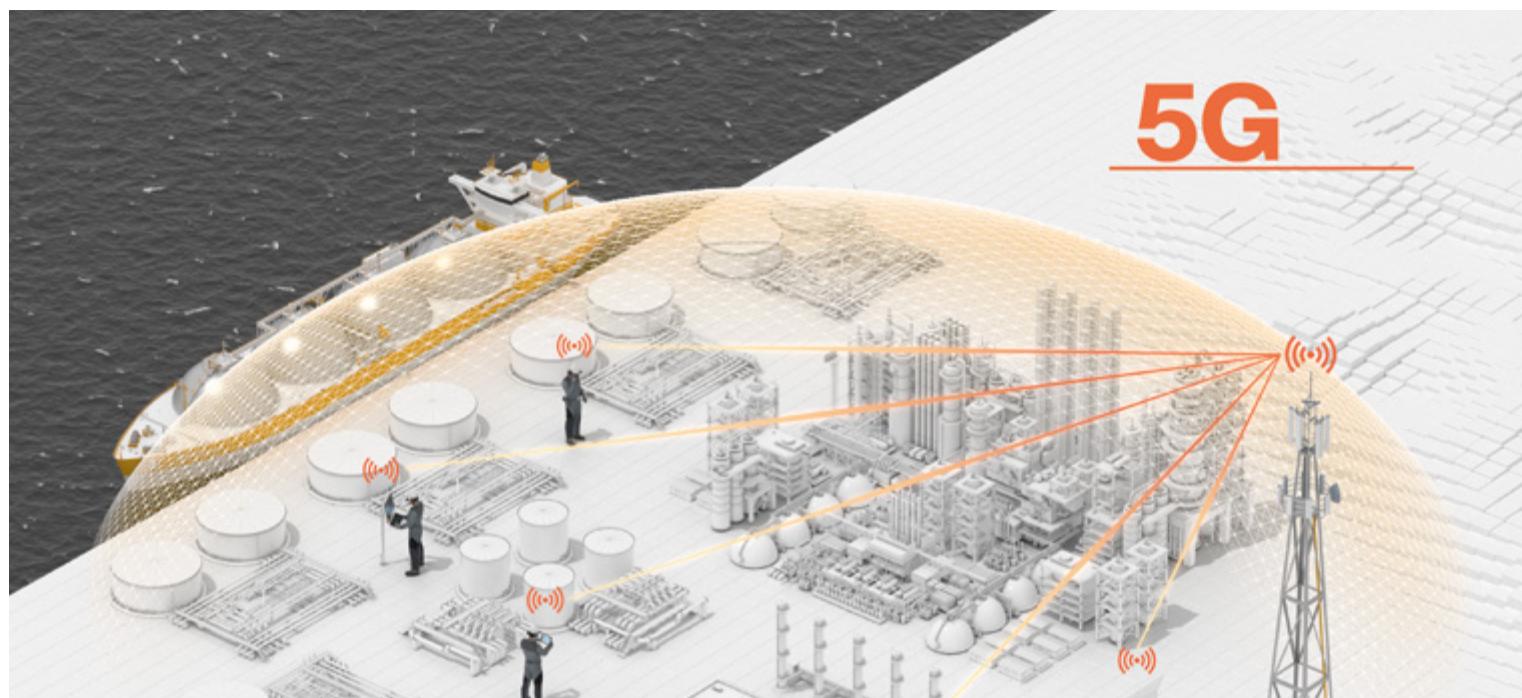
Better Informed and Fully Supported

The Smart-Ex 203 offers companies advanced technology and outstanding connectivity. In line with the Pepperl+Fuchs "Enterprise Mobility" concept, the smartphone ensures maximum efficiency in terms of digitalization and cost savings.
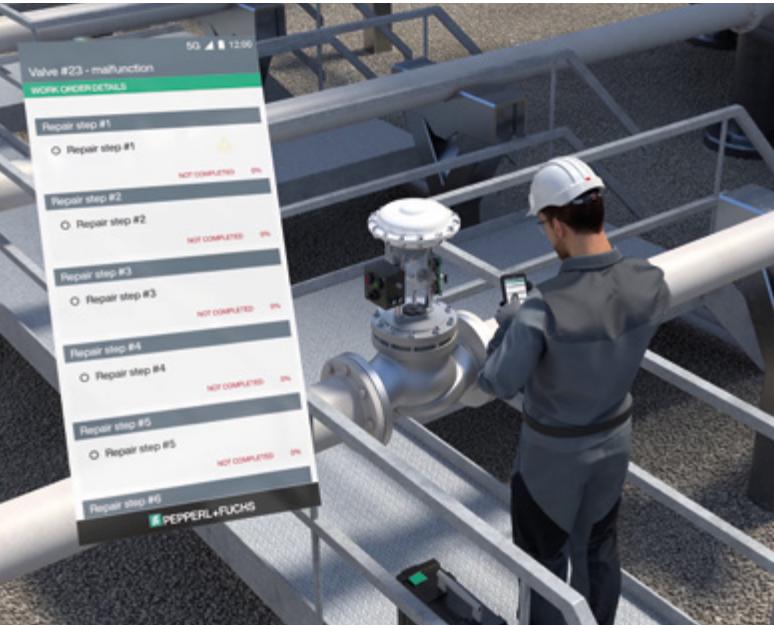
Application: Digital Work Order Management

The Smart-Ex 203 enables the digitalization of various business processes, such as work order management for planning and prioritizing work orders. In this process, mobile workers receive work orders on their smartphones, each containing a list of work steps that need to be completed to fulfill the order. This allows companies to guide their mobile workers through the entire work order process. In this way, digital work order management maximizes worker efficiency and simplifies the repair or maintenance of equipment in plants.
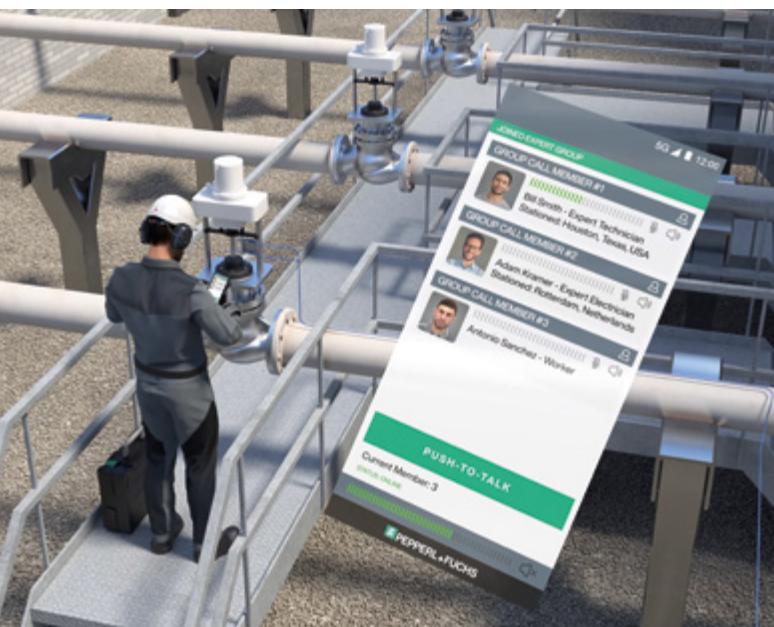
Application: Push-to-Talk Group Call

The Smart-Ex 203 enables encrypted and therefore secure, push-to-talk group calls with multiple people at different locations over 5G. This communication feature enables remote support for mobile workers and helps to carry out service and maintenance tasks in the field.

Innovative Solutions from a Single Source

Pepperl+Fuchs offers a range of coordinated peripherals, accessories, and software solutions as an ideal complement to the Smart-Ex 203.

Applications 4.0

- Inspection/maintenance
- Asset management/tracking
- Collaborative working
- Scanning/auto ID
- Process automation/operations
- Lone worker protection/localization (GeoIP)
- Engineering/installation
- Augmented reality (AR)
- Security/safety
- Push-to-Talk over Cellular (PTToC)

Hardware

Peripherals
- Scanner
- Camera
- Headset

Certification
- Ex certifications
- Regulatory
- Wireless certifications

Accessories
- Desktop charger/docking
- Spare battery
- Case
- Cradles

Software

- User management
- Customized roles and rghts
- Android Enterprise Recommended (AER)
- Android zero-touch
- Kiosk mode
- APKs
- API/3rd party

Safety

- Mobile worker
- Assets
- Data

Support

- Sales and application engineering
- Service level agreements
- Security patches
- Software updates

Digital Products and Services

- Preconfiguration/staging
- Mobile device management (over-the-air)
- Device analytics

Digital Products and Services

Digital Products and Services is a solution that combines automated staging, mobile device management, and device analytics. It can also be used as a full-fledged enterprise mobility management system if required. It is a ready-to-use service that ensures quality and security for all devices. This saves time and valuable resources.

Staging and Enrolling:
eCSL—Custom Service Load
- Custom device preconfiguration
- Delivered ready to use

Configuring ... **65%** complete

Upload complete

Configuring ... **27%** complete
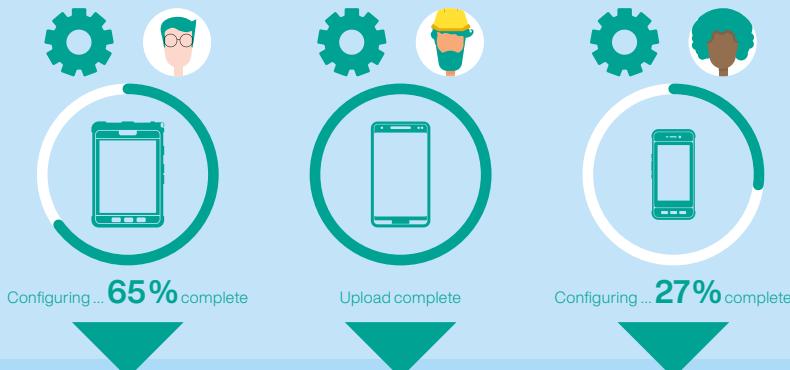
Configuring and Management:
eMDM—Mobile Device Management
- Update devices around the world simultaneously

Device Diagnostics
- Analytics help avoid problems and correct errors

Your automation, our passion.

- Industrial Sensors

- Industrial Communication and Interfaces

- Enterprise Mobility

- Hazardous Area Products and Solutions

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