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**ecom**  
A PEPPERL+FUCHS BRAND

Tab-Ex® 03—  
The Next Generation of 8" Android  
Tablets for Use in Hazardous Areas

The new Samsung-based tablet  
from ecom—the undisputed  
standard for mobile working.



Your automation, our passion.

 **PEPPERL+FUCHS**

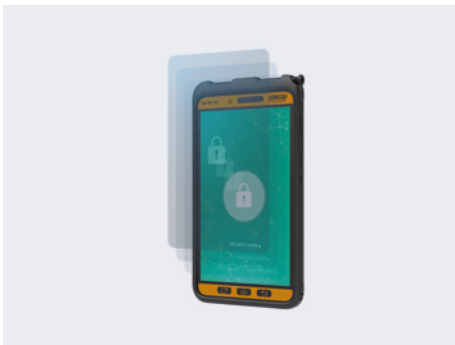
# The Next Generation of 8" Android Tablets for Use in Hazardous Areas

The rugged, highly secure and hazardous area-rated tablet Tab-Ex® 03 continues the success story with the 3rd generation 8" Tab-Ex® Series. The Tab-Ex® 03 DZ2/D2 comes in a slim and lightweight design with a new high-performance operating system that powers the tablet with industry-leading performance in hazardous areas. The Samsung DeX function turns the compact tablet into a full desktop computer, and additional accessories, peripherals, digital products, and services ensure superior flexibility.



## Total Reliability, Assuring User-Friendliness

ecom's new 8" Android tablet Tab-Ex® 03 DZ2/D2 comes in a slim and lightweight design. Despite the slim form factor the tablet ensures high performance for use in Zone 2/22 and Div. 2. The multitouch display can be operated with an S Pen and with gloves, and offers optimal readability even in direct light. From indoor pharmaceutical applications to harsh ambient conditions, the Tab-Ex® 03 is designed for use in temperatures ranging from -20 °C to +55 °C and in the most demanding industries. As a proven product for industrial and harsh environments, it stands for a long-term strategic partnership with Samsung.



## Advanced Security, Protecting Data and Device

Based on Samsung's state-of-the-art Galaxy Tab Active3, the device ensures high data and device security via Google Android™ operating system and Samsung Knox. The Tab-Ex® 03 supports all Knox features like mobile enrollment, configuration management and E-FOTA. Besides biometric authentication and a baseline protection against malware, privacy hacks and more, the basic device, Samsung Galaxy Tab Active3, is part of the Android Enterprise Recommended (AER) program. Devices awarded with Android Enterprise Recommended fulfill the highest performance and security requirements of Google.



## Efficiency to Go, Taking Mobile Working to New Dimensions

Via Samsung DeX mode, the Tab-Ex® 03 can be quickly and easily connected to a keyboard, mouse, and monitor in the office, providing a full desktop experience and offering with its one-device-strategy a cost-saving, equal alternative to desktop PCs. Charging and data transfer take place via a pogo pin connector. Special keys on the new Tab-Ex® 03 can be customized—for example, as an emergency key for maximizing safety. Google ARCore™ is used to implement important augmented reality applications, such as remote support and training, and tailor-made tools for predictive maintenance. These features support quality assurance and make plants safer. Pepperl+Fuchs' and ecom's Digital Products and Services complete the solution with ready-to-use devices optimized for individual requirements.

# High Security Standards, Complete Protection

By combining Samsung Knox with the Android operating system, ecom's Tab-Ex® 03 ensures that company data and processes are secure. On top of that, the Tab-Ex® 03 is one of the selected mobile devices that is part of the Android Enterprise Recommended (AER) program. Google's AER program includes manufacturers and service providers that meet high standards for device performance, user experience and security. This addresses the desire for customized, flexibly deployable hardware equipment in combination with easy-to-manage software and an almost seamless security architecture.

**Operating System**

- Android™ 11

**Memory**

- 4 GB RAM
- 512 GB additional memory via microSD
- 64 GB internal memory

**Samsung DeX**

- Connect to keyboard, mouse, and monitor

**Dedicated Keys**

- Free programmable key, e.g., for emergency calls, alarms or Push-to-talk (PTT)

**Two Cameras**

- 13 MP camera with autofocus and LED flash + 5 MP front camera
- Optional: Non-camera

**Power**

- Powerful Li-Ion Battery
- 5,050 mAh (Typical)
- 4,900 mAh (Rated)

**Extended Temperature Range**

- 20 °C ... +55 °C

**Connectivity**

- WLAN 802.11 a/b/g/n/ac/ax (2.4 GHz), Wi-Fi 4, 5, 6 (2.4 GHz + 5 GHz), 2x2 MIMO
- Bluetooth® 5.0
- Wi-Fi Direct
- NFC EMV L1

	<p>The slim and lightweight 8" Android Tablet for use in Zone 2/22 and Div. 2</p>		<p>Latest Android™ operating system: quick, safe, and efficient</p>		<p>Connect a keyboard, mouse, and monitor via Samsung DeX mode for a full desktop experience</p>
	<p>Ultra-rugged multi-touch display can be operated with gloves and S Pen</p>		<p>Based on Samsung's state-of-the-art Galaxy Tab Active3, MIL-STD-810H certified</p>		<p>Digital Products and Services provide a ready-to-use service that ensures quality and security</p>

# Innovative Solutions from a Single Source

Pepperl+Fuchs offers a range of coordinated peripherals, accessories, and software solutions as an ideal complement to the Tab-Ex® 03.

## Exploring Mobility

Organizations are starting to realize how mobility solutions can benefit their business. Today, the focus is on technologies that reduce costs and improve efficiency. Game-changing breakthroughs in mobile computing and communication technologies are enabling industries to improve workforce safety and productivity, data quality, and the speed and

accuracy of decision-making. The Internet of Things (IoT) has become increasingly important in the field of industry and will change the way companies deploy labor to use resources more effectively.



### 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 (PTT)



### Hardware

#### Peripherals

- Scanner
- Camera
- Headset
- Radio speaker microphone

#### Certification

- Ex certifications
- Regulatory
- Wireless certifications

#### Accessories

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



### Software

- User management
- Customized roles and rights
- 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
- Service with repair and Ex testing



### 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.

At the customer's request, ecom's mobile devices can ship from the factory with predefined custom configurations such as security settings, applications, and wireless setup. This allows devices to be used anywhere in the world immediately upon delivery.

The devices can be managed via the ecom online platform and updated remotely at any time during operation without having to be sent to local IT staff or the head office.

Cloud servers hosted in Germany meet the highest data protection standards and guarantee high data availability and security.

One-time staging and enrolling can also be done internally via ecom's production servers. If required, device diagnostics and analytics can collect real-time operational data and fault analyses to continuously monitor device statuses and fix malfunctions preventively or immediately.

Additionally, the platform analyzes historical data to detect critical software events, installations, and other safety-critical processes. A statistical accumulation of events can be used to establish correlations and causalities between software errors, geographical data, and Wi-Fi coverage, for example.

Digital Products and Services is a ready-to-use service that ensures quality and security for all devices. This saves time and valuable resources.

Find out more:

[www.pepperl-fuchs.com/pf-tab-ex-03](http://www.pepperl-fuchs.com/pf-tab-ex-03)



### Staging and Enrolling

eCSL – Custom Service Load

- Custom device preconfiguration
- Delivered ready-to-use



### Configuring and Management

eMDM – Mobile Device Management

- Update devices around the world simultaneously

### Device Diagnostics

- Analytics help avoid problems and correct errors



## Accessories and Peripherals

Components such as desktop charger, remote speaker microphone (RSM), and headsets expand the range of applications for the new Tab-Ex® 03 and are perfectly suited for future IIoT solutions.

### Accessories

- LC T03 leather case
- CH T03 chest harness
- Belt clip
- Carrying strap

Additional accessories can be found at [www.ecom-ex.com](http://www.ecom-ex.com)

#### Viator® BT

Bluetooth®  
HART Modem



#### Ident-Ex® 01

Barcode scanner /  
RFID reader



#### Visor-Ex® 01

Smart Glasses



#### RSM-Ex 01 BT

Bluetooth®  
Loudspeaker  
microphone



## Optimal Service, Global Support

Based on the Samsung Galaxy Tab Active3, the device stands for tested quality, compatibility, and a long-standing, successful partnership between Samsung and the Pepperl+Fuchs brand ecom. The tablet, which offers absolute safety and a huge range of applications, is based on more than 30 years of experience and a high level of application expertise.

Pepperl+Fuchs' extensive sales and service network provides support around the globe. Specialized technicians are available near you. Further support with software integration is available via our engineering and development teams.

To protect your investment, we offer a three-year service level agreement so your mobile assets are covered for your operational needs.



Tab-Ex® 03 DZ2



Tab-Ex® 03 D2

# Digitalizing hazardous areas. Enabling connectivity. Enhancing mobility.



**The Pepperl+Fuchs brand ecom is a leading manufacturer of comprehensive solutions for intrinsically safe mobile computing and industrial communication in hazardous areas.**

Since 1986, ecom has played a key role in pioneering explosion protection for mobile devices. The company has demonstrated its technological expertise with a number of innovations and tried-and-tested mobile solutions—from hazardous area-rated smartphones, cell phones, and tablets to accessories like wireless headsets and barcode scanners. ecom's new Digital Products and Services platform completes the portfolio, offering automated staging during device production, mobile device management, and device analytics; the platform can also be used as a full-fledged enterprise mobility management system.

Each of ecom's solutions combines uncompromised security with the highest level of functionality, and includes all necessary approvals and certificates for global use. A global sales and support network with service centers in Germany, the US, Singapore, and the United Arab Emirates completes the range of products.

Customers around the world know the Pepperl+Fuchs Group as a pioneer and innovator in electrical explosion protection and sensor technology. Building on decades of experience and technical leadership, the company develops components and solutions tailored to the needs of its customers. Solutions for mobile safety and communication from the Pepperl+Fuchs brand ecom enable customer applications to be digitalized quickly and easily. This opens up completely new possibilities and increases the safety, efficiency, and transparency of operations in both conventional and Industry 4.0 applications.

For more information about ecom, visit:

[www.ecom-ex.com](http://www.ecom-ex.com) and [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)

# Your automation, our passion.

## Explosion Protection

- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex® Fieldbus Infrastructure
- Remote I/O Systems
- Electrical Explosion Protection Equipment
- Purge and Pressurization Systems
- HMI Systems
- 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
- Vibration Sensors
- Industrial Ethernet
- AS-Interface
- IO-Link
- Identification Systems
- Displays and Signal Processing
- Connectivity

[www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)

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**Pepperl+Fuchs Quality**

Download our latest policy here:

[www.pepperl-fuchs.com/quality](http://www.pepperl-fuchs.com/quality)



# Data Sheet Tab-Ex<sup>®</sup> 03

## DZ2 WiFi / WWAN



<b>ATEX</b> 	<b>NEC</b>
<b>IECEX</b> 	<b>UKCA</b> <b>UK</b> <b>CA</b>

### Technical Data

<b>Operating System</b>	Android™ Unless otherwise specified, the product is shipped with the latest firmware release. Latest firmware release: Android™ 11
<b>Chipset</b>	Exynos 9810 (Lhotse) Octa-Core 64-Bit; 4 x 2.7 GHz, 4 x 1.7 GHz
<b>RAM</b>	4 GB
<b>Internal data memory</b>	64 GB; free available memory 48.6 GB
<b>microSD</b>	512 GB (optional), up to 1 TB possible
<b>Display</b>	1920 x 1200 pixels (WUXGA), 8", TFT, 480 nit Brightness, Operation: also with gloves / in wet conditions & snow
<b>Sensors</b>	Accelerometer, GyroSensor, Geomagnetic Sensor, Hall Sensor, RGB Light Sensor, Proximity Sensor
<b>Dimensions</b>	213.8 mm x 126.8 mm x 9.9 mm, approx. 610 g
<b>Operating temperature</b>	-20 °C ... +55 °C
<b>Degree of protection</b>	IP64 according to EN/IEC 60079-0 (ATEX/IECEX) IP68* according to EN/IEC 60529 (industrial standard) and MIL-STD-810H  * IP68 is based on test conditions for submersion in up to 1.5 meters of freshwater for up to 30 minutes.
<b>Connectivity</b>	<ul style="list-style-type: none"> <li>■ WiFi 802.11 a/b/g/n/ac/ax (2.4GHz + 5GHz), 2x2 MIMO</li> <li>■ Bluetooth® v5.0</li> <li>■ WiFi Direct</li> <li>■ NFC EMV L1</li> <li>■ GPS, GLONASS, Beidou, Galileo</li> <li>■ USB 3.1 Type-C</li> <li>■ WiFi does not support cellular</li> </ul>
<b>Frequency Bands</b>	Supported cellular frequency bands: 4G LTE FDD: B1, B2, B3, B4, B5, B7, B8, B12, B13, B17, B20, B28, B66 4G LTE TDD: B38, B40, B41 3G UMTS: B1, B2, B4, B5, B8 2G GSM: 850 / 900 / 1800 / 1900 MHz US-Version: LTE-Support: AT&T, Sprint, T-Mobile, Verizon Supported cellular frequency bands: 4G LTE FDD: B2, B3, B4, B5, B7,B12, B13, B14, B17, B25, B26, B29; B66, B71 4G LTE TDD: B41 3G UMTS: B1, B2, B4, B5, B8
<b>SIM</b>	1x Nano SIM (optional)
<b>Security</b>	Samsung KNOX, Face Recognition
<b>Camera: Rear + Front</b>	13 MP AF + 5 MP / optional: Non-Camera
<b>Battery Capacity</b>	Li-Ion battery 3.8 V / 5050 mAh (Typical), 4900 mAh (Rated) / 18.87 Wh / up to 11 hours battery life
<b>Applications</b>	Google ARCore, MDM Systems