



Smartphone

Smart-Ex® 03

SMART-EX03-DZ1*

- Global certificates - a common hardware platform
- Android™ 15 operating system
- Wireless connections such as 5G NR, WWAN, Wi-Fi and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Programmable hardware buttons
- Special buttons for lone worker protection (LWP) applications
- PTCRB and GCF certified
- Dual SIM (eSIM + nano-SIM)
- Google ARCore ready
- Optional with a service contract

Division 1 and Zone 1/21, Android™



Technical Data

Hardware

Processor	Qualcomm Dragonwing™ QCM6490 3GPP Rel 15 support
RAM	8 GByte
Camera	Version without camera available.
Front camera	5 MP
Main camera	13 MP with LED flash and phase detection autofocus optimized for scanning solutions
Video recording resolution	1080p, 720p, 480p (main camera)
Internal data memory	128 GByte ¹
Optional data memory	
Sensors	Biometric, Accelerometer, Gyrometer, Magnetometer, Barometer, Proximity, Ambient light

Indicators/operating means

Display	
Touch screen technology	Capacitive multitouch
Screen size	15.24 cm / 6 inch
Screen resolution	1080 x 2160
Screen protection	Extreme shock and scratch resistant Gorilla® glass
Special Features	Can be operated while wearing gloves
Key	Programmable push-to-talk, alarm and multifunction button Power button with fingerprint sensor Volume up/down

Electrical specifications

Battery type	Li-Ion battery , 4400 mAh
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Interface

I/O ports	Charging via USB Type C + robust charging pads for charging in docking station (accessory) 3.5 mm audio interface, supporting legacy and standard 3.5mm audio accessories and updated PTT accessories through new, specific audio interface
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Communication

Mobile standard	
2G	GSM: 800 / 850 / 900 / 1800 / 1900 MHz

Release date: 2026-05-21 Date of issue: 2026-05-21 Filename: 480994_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical Data

3G	WCDMA: B1, B2, B4, B5, B8 (850 / 900 / 1700 / 1900 / 2100 MHz)
4G	LTE: B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B34, B38, B39, B40, B41, B42, B43, B48, B53, B66, B71
5G	NR: n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n28, n30, n38, n40, n41, n48, n66, n71, n77, n78, n79
WLAN	6E ready, 802.11a/b/g/n/ac/ax/e/k/r/v, support for Enterprise deployments
Bluetooth	5.2 (BLE supported)
GPS sensor	GPS, GLONASS, Galileo, QZSS, BeiDou
NFC	yes
SIM card	Dual SIM (eSIM + nano-SIM)
Software	
Operating system	Android™ 15 Android™ Enterprise Recommended verified device
SMS/MMS	yes
Cybersecurity	
IT security	
Biometrics	Fingerprint sensor in power button
Updates	Security updates until October 2030 Security update frequency every 90 days Operating system upgrades up to Android™ 15
Certificates	Common Criteria (CC)
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Degree of protection	IP68 according to EN/IEC 60529 MIL-STD-810H
Mass	400 g
Dimensions	
Height	25 mm / 18 mm
Width	84 mm
Length	172 mm
Data for application in connection with hazardous areas	
ATEX approval	
ATEX certificate	EPS 23 ATEX 1 094 X
ATEX marking	Ⓜ II 2G Ex ia IIC T4 Gb Ⓜ II 2D Ex ia IIIC T135 °C Db Ta = -20 °C to +60 °C
International approvals	
IECEX approval	
IECEX certificate	IECEX EPS 23.0021X
IECEX marking	Ex ia IIC T4 Gb Ex ia IIIC T135 °C Db Ta = -20 °C to +60 °C
UKCA approval	
UKCA certificate	EPS23 UKEX 1 095 X
UKCA marking	Ⓜ II 2G Ex ia IIC T4 Gb Ⓜ II 2D Ex ia IIIC T135 °C Db
INMETRO approval	
INMETRO certificate	TÜV 24.0193 X
INMETRO marking	Ex ia IIC T4 Gb Ex ia IIIC T135°C Db
KCC approval	
KCC certificate	24-KA4BO-0673X 24-KA4BO-0672X
KCC marking	Ex ia IIC T4 Gb Ex ia IIIC T135°C Db
NEC/CEC approval	
NEC/CEC certificate	E115956_PRJ-17072

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PEPPERL+FUCHS

Technical Data

NEC/CEC marking	<p>U.S. and Canada Class I Division 1 Group ABCD T4 Class II Division 1 Group EFG T4 Class III Division 1</p> <p>U.S. Class I Zone 1 AEx ia IIC T4 Gb Zone 21 AEx ia IIIC T135°C Db</p> <p>Canada Ex ia IIC T4 Gb Ex ia IIIC T135°C Db</p>
IA approval	
IA certificate	MASC S/24-8207X
IA marking	Ex ia IIC T4 Gb Ex ia IIIC T135 °C Db
CML approval	
CML certificate	CML 24JPN2222X
CML marking	Ex ia IIC T4 Gb Ex ia IIIC T135 °C Db
ANZEx approval	
ANZEx certificate	ANZEx 24.3005X
ANZEx marking	Ex ia I Ma
Further approvals	Wi-Fi CERTIFIED™ Google ARCore ready PTCRB GCF
General information	
Note	Android is a trademark of Google LLC. ¹ no SD Card memory extension
Scope of delivery	Smart-Ex® 03 Li-Ion battery Charger USB cable Screwdriver Documentation

Accessories

Accessories for this product can be found on the internet at www.pepperl-fuchs.com.