



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® Snapdragon QCM6490 and SDR753 platform Full 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
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
Communication	
Mobile standard	
2G	GSM: 800 / 850 / 900 / 1800 / 1900 MHz

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

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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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.