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BARTEC SP9EX2 Smartphone

For Zone 2/Div2 hazardous areas

The **BARTEC SP9EX2 Smartphone is the world's most compact 5G smartphone for Zone 2 and Div2. Designed for hazardous environments, it combines advanced safety features with high performance. It offers a broad range of accessories, runs on Android 13TM, and provides comprehensive lifecycle support.**

The BARTEC SP9EX2 Smartphone is tailored for professionals working in hazardous environments, ensuring reliable communication and data management. This smartphone is ideal for field workers, engineers, and safety inspectors who need a secure and durable device in challenging conditions. Its capability to record 4K video and capture high-quality still images in low light allows users to document their work effectively and accurately, even in demanding situations.

– Android 13TM
– 6.1" AMOLED
– 48 MP Back Camera
– 8 MP Front Camera
– Faster, future-ready wireless connections with WiFi 6 and 5G

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Explosion protection

Marking ATEX	ⓔⓍ II 3G Ex ic IIC T4 Gc ⓔⓍ II 3D Ex ic IIC T135°C Dc
Certification	*pending*
Marking IECEx	Ex ic IIC T4 Gc Ex ic IIC T135°C Dc
Certification	*pending*
Marking NEC/CEC 500/505	Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups E, F and G; Class III, T4 Zone 2, AEx ic IIC T4 Gc Zone 22, AEx ic IIIC T135°C Dc Ex ic IIC T4 Gc Ex ic IIIC T135°C Dc
Certification	*pending*

Other approvals and certificates, see www.bartec.com

User environment

Operating temperature	-20 °C to +55 °C (-4 °F to +131 °F)
Charging temperature	0 °C to +45 °C (32 °F to +113 °F)
Storage temperature (without battery)	-30 °C to +60 °C (-22 °F to +140 °F)
Protection class (IEC 60529)	IP68
Drop specification	tested according to MIL-STD-810H

Technical data

Processor	Qualcomm® QCM6490 Octa Core 2.7 GHz
Memory (RAM)	8 GB
Mass storage	128 GB
SIM	Dual SIM (Nano SIM + eSIM)
Operating system	Android 13™ Hardware supports future Android versions (up to Android™ 15)
Size (L x W x H)	168.7 mm x 83.4 mm x 17.9 mm (6.6 inch x 3.3 inch x 0.7 inch)
Weight (with battery)	350 g (0.77 lb)
Display	6.1" AMOLED
Resolution	1080 x 2340 Pixel
Front glass	Gorilla® Glass Victus® (generation 8)
Touch function	Capactive Touch
Usability	Stylus, bare or gloved fingertip input
Battery	Lithium-ion battery 3.68 V/4300 mAh (15.8 Wh); Must only be changed and charged outside hazardous areas.
Notifications	Audible tone: multi-color LEDs; vibration
Voice & Audio	Two microphones; Vibrate alert; Speaker; Bluetooth wireless headset support, High quality speakerphone
Buttons	1x on/off button 2x programmable function button (for PTT, Emergency call or other functions) 1x volume buttons (+/-)

Technical data

External I/O	Charging pins USB-C Port
Sensors	Accelerometer/Gyroscope Magnetometer/Compass Pressure/Barometer Proximity Ambient light
NFC	Read/write NFC tags (e.g. ISO 14443 Type A), contactless payments and card emulation
Camera	– Backside: 48 MP with Auto Focus – Frontside: 8 MP
Radio Frequency Band	5G NR (Bands: 1-3, 5, 7, 8, 20, 25, 28, 38, 40, 41, 48, 66, 71, 77 ,78) LTE (Bands: 1-5, 7, 8, 12, 13, 17, 20, 28, 38, 40, 41, 48, 66, 71) UMTS (Bands: 1, 2, 4, 5, 8) GSM (Bands: 850, 900, 1800, 1900)
WLAN-WiFi	– Wi-Fi 6 IEEE 802.11a/b/g/n/ac/ax – 2x2 MU-MIMO – Dual band Simultaneous Up to 3.6 GBps data rate & 160 MHz bw.
GNSS	GPS, A-GPS, Glonass, Galileo and BeiDou
Bluetooth	Bluetooth® 5.2 including Low Energy long range and multiple broadcasts
Warranty	2 years for BARTEC SP9EX2 Smartphone 6 month for battery and accessories
Service contract	ALL-IN
Scope of delivery	– BARTEC SP9EX2 Smartphone – Battery – Battery tool – USB-C cable – Quick Start Guide
Also required	(not included in the delivery) – USB-C Charger (e.g. Wall Charger Type G7-S0Z0-0014/0015/0016/0017)

Accessories

See datasheet:
BARTEC SP9EX2 Smartphone Accessories
Ensure safety in hazardous areas by using only original BARTEC accessories.

Ordering information

BARTEC SP9EX2 Smartphone	B7-S29P-31110110

Android is a trademark of Google LLC.