

BARTEC SP9^{EX1} Smartphone

For Zone 0/1 and Div1 hazardous areas



The BARTEC SP9^{EX1} Smartphone is the world's most compact 5G smartphone for Zone 0/1 and Div1. Designed for hazardous environments, it combines advanced safety features with high performance. It offers a broad range of accessories, runs on Android™ 15, and provides comprehensive lifecycle support.

The BARTEC SP9^{EX1} 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™ 15
- 6.1" AMOLED
- 48 MP Back Camera
- 8 MP Front Camera
- Faster, future-ready wireless connections with WiFi 6 and 5G

Explosion protection

Marking ATEX	II 1G Ex ia IIC T4 Ga II 2D Ex ia IIIC T135°C Db IP64
Certification	UL 24 ATEX 3153X
Marking IECEx	Ex ia IIC T4 Ga Ex ia IIIC T135°C Db IP64
Certification	IECEx UL 24.0004X
Marking NEC/CEC 500/505	Class I, Div 1, Groups A, B, C and D; Class II, Div 1, Groups E, F and G; Class III, T4 Zone 0, AEx ia IIC T4 Ga Zone 21, AEx ia IIIC T135°C Db Ex ia IIC T4 Ga Ex ia IIIC T135°C Db
Certification	E226123

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™ 15 Upgradeable to Android™ 16. Further upgrades are subject to Qualcomm's confirmation.
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

Technical data

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 (+/-)
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	Main camera - 48 MP with Auto Focus - Aperture: f/1.79 - Digital Zoom: 8x - Minimum focus distance: 7.5 cm - Photo resolution: 8000 × 6000 (48 MP); 4000 × 3000 (12 MP, Quad Bayer) - Video recording: 4K @ 30 fps; 1080p @ 120 fps (Slow Motion) - Barcode scanning supported (third-party software required) Front camera - 8 MP with fixed focus - Aperture: f/2.0 - Digital Zoom: 8x - Photo resolution: 3264 × 2448 (8 MP) - Video recording: 1080p @ 30 fps; 720p @ 60 fps (Slow Motion)
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

Android is a trademark of Google LLC.

Technical data

Also required	(not included in the delivery) – USB-C Charger (e.g. Wall Charger Type G7-S0Z0-0014/0015/0016/0017)
Warranty	2 years for BARTEC SP9 ^{EX1} Smartphone 6 month for battery and accessories
Service contract	ALL-IN
Scope of delivery	– BARTEC SP9 ^{EX1} Smartphone – Battery – Battery tool – USB-C cable – Quick Start Guide

Accessories

See datasheet:
BARTEC SP9^{EX1} Smartphone/BARTEC SC9^{EX1} Smartscanner Accessories
Ensure safety in hazardous areas by using only original BARTEC accessories.

Ordering information - Rest of the world

BARTEC SP9 ^{EX1} Smartphone	17-S19P-31110110
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Ordering information - North America

BARTEC SP9 ^{EX1} Smartphone Version: Verizon	17-S19P-31110111
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