

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.

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

Android is a trademark of Google LLC.

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

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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