

# BARTEC SP9<sup>EX1</sup> Smartphone

For Zone 1/Div 1 hazardous areas



The BARTEC SP9<sup>EX1</sup> Smartphone is the world's most compact 5G smartphone for Zone 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 13™, and provides comprehensive lifecycle support.

The BARTEC SP9<sup>EX1</sup> 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 13™
- 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<br>Ⓔ II 2D Ex ia IIIC T135°C Db IP64                                                                                                                                           |
| Certification              | UL 24 ATEX 3153X                                                                                                                                                                                       |
| Marking IECEx              | Ex ia IIC T4 Ga<br>Ex ia IIIC T135°C Db IP64                                                                                                                                                           |
| Certification              | IECEx UL 24.0004X                                                                                                                                                                                      |
| Marking<br>NEC/CEC 500/505 | Class I, Div 1, Groups A, B, C and D;<br>Class II, Div 1, Groups E, F and G;<br>Class III, T4<br>Zone 0, AEx ia IIC T4 Ga<br>Zone 21, AEx ia IIIC T135°C Db<br>Ex ia IIC T4 Ga<br>Ex ia IIIC T135°C Db |
| Certification              | pending                                                                                                                                                                                                |

Other approvals and certificates, see [www.bartec.com](http://www.bartec.com)

User environment

|                                          |                                      |
|------------------------------------------|--------------------------------------|
| Operating temperature                    | -20 °C to +50 °C (-4 °F to +122 °F)  |
| Charging temperature                     | 0 °C to +45 °C (32 °F to +113 °F)    |
| Storage temperature<br>(without battery) | -30 °C to +60 °C (-22 °F to +140 °F) |
| Protection class<br>(IEC 60529)          | IP68                                 |

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™<br>Hardware supports future Android versions<br>(up to Android™ 15)                                                |
| Size (L x W x H)      | 168.7 mm x 83.4 mm x 17.9 mm<br>(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<br>(15.8 Wh); Must only be changed and<br>charged outside hazardous areas.                 |
| Notifications         | Audible tone; multi-color LEDs; vibration                                                                                      |
| Voice & Audio         | Two microphones; Vibrate alert; Speaker;<br>Bluetooth wireless headset support, High<br>quality speakerphone                   |
| Buttons               | 1x on/off button<br>2x programmable function button<br>(for PTT, Emergency call or other functions)<br>1x volume buttons (+/-) |

Android is a trademark of Google LLC.

Technical data

|                      |                                                                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| External I/O         | Charging pins<br>USB-C Port                                                                                                                                                                                             |
| Sensors              | Accelerometer/Gyroscope<br>Magnetometer/Compass<br>Pressure/Barometer Proximity<br>Ambient light                                                                                                                        |
| NFC                  | Read/write NFC tags (e.g. ISO 14443 Type A),<br>contactless payments and card emulation                                                                                                                                 |
| Camera               | – Backside: 48 MP with Auto Focus<br>– Frontside: 8 MP                                                                                                                                                                  |
| Radio Frequency Band | 5G NR (Bands: 1-3, 5, 7, 8, 20, 25, 28, 38, 40,<br>41, 48, 66, 71, 77, 78)<br>LTE (Bands: 1-5, 7, 8, 12, 13, 17, 20, 28, 38, 40,<br>41, 48, 66, 71)<br>UMTS (Bands: 1, 2, 4, 5, 8)<br>GSM (Bands: 850, 900, 1800, 1900) |
| WLAN-WiFi            | – Wi-Fi 6 IEEE 802.11a/b/g/n/ac/ax<br>– 2x2 MU-MIMO<br>– Dual band Simultaneous<br>Up to 3.6 Gbps data rate & 160 MHz bw.                                                                                               |
| GNSS                 | GPS, A-GPS, Glonass, Galileo and BeiDou                                                                                                                                                                                 |
| Bluetooth            | Bluetooth® 5.2<br>including Low Energy long range and<br>multiple broadcasts                                                                                                                                            |
| Warranty             | 2 years for BARTEC SP9 <sup>EX1</sup> Smartphone<br>6 month for battery and accessories                                                                                                                                 |
| Service contract     | ALL-IN                                                                                                                                                                                                                  |
| Scope of delivery    | – BARTEC SP9 <sup>EX1</sup> Smartphone<br>– Battery<br>– Battery tool<br>– USB-C cable<br>– Quick Start Guide                                                                                                           |
| Also required        | (not included in the delivery)<br>– USB-C Charger<br>(e.g. Wall Charger<br>Type G7-S0Z0-0014/0015/0016/0017)                                                                                                            |

Accessories

See datasheet:  
BARTEC SP9<sup>EX1</sup> Smartphone/BARTEC SC9<sup>EX1</sup> Smartscanner Accessories  
Ensure safety in hazardous areas by using only original BARTEC accessories.

Ordering information

|                                         |                  |
|-----------------------------------------|------------------|
| BARTEC SP9 <sup>EX1</sup><br>Smartphone | 17-S19P-31110110 |
|-----------------------------------------|------------------|