

UNITED KINGDOM CONFORMITY ASSESSMENT

1 **TYPE EXAMINATION CERTIFICATE**

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
UKSI 2016:1107 (as amended)

3 Certificate Number: **CSAE 23UKEX1003X** Issue: **0**

4 Product: **Mobile phone, Model XP9900 (P320@@)**

5 Manufacturer: **Sonim Technologies (Shenzhen) Ltd**

6 Address: **14 / F, Haiwang Yinhe building  
No.1, Keji Middle Third Road  
Nanshan District, Shenzhen, Guangdong  
China**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Testing UK Limited, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations. The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-11:2012

Except in respect of those requirements listed at Section 16 of the schedule to this certificate.

The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall include the following:



II 3GD  
Ex ic IIC T4 Gc IP64  
Ex ic IIIC T135 Dc IP64  
Ta = -20°C to +55°C



Name: M Halliwell  
Title: Director of Operations

**SCHEDULE**

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**CSAE 23UKEX1003X  
Issue 0**

**13 DESCRIPTION OF PRODUCT**

Mobile phone XP9900 (P320@@) is to be used in zone 2 and zone 22 hazardous locations. It is powered by an internally fitted user-replaceable Li-Ion battery, whose rating is 3.87Vdc/4850mAh. The product consists of a touchscreen display, two SIM cards, WLAN, Bluetooth, GPS, 5G/GSM/UMTS/LTE communications, camera, flashlight, and other options, housed in a non-metallic enclosure.

The equipment can only be powered by manufacturer’s custom designed battery packs, and the main battery pack is user-replaceable (not permitted to be swapped in hazardous areas). The equipment is only allowed to be charged outside of hazardous location, the maximum charging parameters are  $U_m = 12Vdc$ ,  $I_m = 3.0A$ .

**14 DESCRIPTIVE DOCUMENTS**

**14.1 Drawings**

Refer to Certificate Annexe.

**14.2 Associated Reports and Certificate History**

Issue	Date	Report number	Comment
0	30 May 2023	R80105505A	The release of the prime certificate.

**15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)**

- 15.1 The product shall be charged in the non-hazardous area, using the Travel charger specifically supplied by the manufacturer for use with the unit approved as SELV or Class 2 equipment against EN 62368 or an equivalent EN standard. The maximum voltage and current from the charger  $U_m$  and  $I_m$  shall not exceed 12Vdc and 3A, respectively. The ambient temperature during charging shall be in the range 0°C to 45°C.
- 15.2 Any Data downloaded via the USB connection is only permitted in non-hazardous location, using the device approved as SELV or Class 2 equipment against EN 62368 or an equivalent EN standard. The maximum voltage  $U_m$  and  $I_m$  from the device shall not exceed 5Vdc and 900mA, respectively.
- 15.3 The product shall be charged in the non-hazardous area, using the DC charger specifically supplied by the manufacturer for use with the unit approved as SELV or Class 2 equipment against EN 62368 or an equivalent EN standard. The maximum voltage and current from the DC charger  $U_m$  and  $I_m$  shall not exceed 5.5Vdc and 2A, respectively. The ambient temperature during charging shall be in the range 0°C to 45°C.
- 15.4 Only a passive headset could be connected to via the headset port in the non-hazardous.
- 15.5 When using, the side cover of the headset must be properly installed. The device cannot be connected with any accessories such like a headset in hazardous location.
- 15.6 Connection and disconnection of all the external ports, opening enclosure, or replacing battery pack while live is only permitted when the potentially explosive atmosphere is shown to be absent (non-hazardous).
- 15.7 The equipment shall be protected against excessive UV light emission and high electrostatic charge generating processes.
- 15.8 The product shall only be used in locations where there is a low risk of mechanical impact.





## SCHEDULE

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#### 16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.

#### 17 PRODUCTION CONTROL

- 17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders
- 17.2 The adapter (for Travel charger) supplied with the mobile phone XP9900 shall be approved as SELV equipment complying with the EN 62368, or a technically equivalent standard. The maximum charging voltage shall not exceed  $U_m = 12V_{dc}$ , and the maximum charging current shall not exceed  $I_m = 3A$ .
- 17.3 The adapter (for DC charger) supplied with the mobile phone XP9900 shall be approved as SELV equipment complying with the EN 62368, or a technically equivalent standard. The maximum charging voltage shall not exceed  $U_m = 5.5V_{dc}$ , and the maximum charging current shall not exceed  $I_m = 2A$ .



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## Certificate Annexe

Certificate Number: CSAE 23UKEX1003X  
Product: Mobile phone, Model XP9900 (P320@@)  
Manufacturer: Sonim Technologies (Shenzhen) Ltd.

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### Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
EX-9900-17-01	1 of 1	V1.0	03 Mar 23	XP9900 Exploded drawing
EX-9900-07-01	1 to 53	V1.1	03 Mar 23	XP9900 schematic
EX-9900-A02-01	1 of 1	V0.3	03 Mar 23	Emergency-key-FPC
EX-9900-A03-01	1 of 1	V0.3	03 Mar 23	Power-key-FPC
EX-9900-A04-01	1 of 1	V0.3	03 Mar 23	PPT-VOL-KEY-FPC
EX-9900-A05-01	1 of 1	V0.1	03 Mar 23	REC-FLASH-LED-FPC
EX-9900-A06-01	1 of 1	V0.3	03 Mar 23	X-key-FPC
EX-9900-A07-01	1 of 1	V0.2	03 Mar 23	TYPE-C-FPC
EX-9900-A01-01	1 of 1	V0.1	25 Apr 23	Audio-Connector-FPC
EX-9900-10-02	1 of 12	V1.0	25 Apr 23	XP9900 BOM
EX-9900-09-01	1 to 2	V1.0	03 Mar 23	PCB component layout
EX-9900-08-01	1 to 10	V1.0	03 Mar 23	PCB track layout
EX-9900-08.1-01	1 of 1	V1.0	03 Mar 23	PCB track layout description
EX-9900-06-01	1 of 1	V1.0	03 Mar 23	Power tree block
EX-9900-06.1-01	1 of 1	V1.0	03 Mar 23	RF Block Diagram
EX-9900-18-01	1 to 5	V1.1	03 Mar 23	RF Design instruction for XP9900
EX-9900-04.1-02	1 to 22	V1.2	25 Apr 23	Waterproof Solution
EX-9900-04.3-02	1 to 2	V1.1	03 Mar 23	DC charger design
EX-9900-04.2-02	1 to 3	V1.0	03 Mar 23	USB design
EX-9900-13-02	1 of 1	V1.1	25 Apr 23	XP9900 IECEx/ATEX Marking

