



1 **TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **CSANe 23ATEX1005X** Issue: **0**

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

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

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

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

8 CSA Group Netherlands B.V., certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of Category 3 equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

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, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

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

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

11 This Type Examination Certificate relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



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

Signed: M Halliwell

Title: Director of Operations



Project Number 80105506

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SCHEDULE

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Issue 0

13 DESCRIPTION OF EQUIPMENT

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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Issue 0

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 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 $I_m = 3A$.
- 17.4 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: CSANe 23ATEX1005X
Equipment: Mobile phone, Model XP9900 (P320@@)
Applicant: Sonim Technologies (Shenzhen) Ltd.

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

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