



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX CSA 23.0002X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-05-30

Applicant: **Sonim Technologies (Shenzhen) Ltd.**
14 / F, Haiwang Yinhe building
No.1, Keji Middle Third Road
Nanshan District, Shenzhen, Guangdong
China

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

Optional accessory:

Type of Protection: **Ex ic "intrinsic safety"**

Marking: Ex ic IIC T4 Gc IP64
Ex ic IIIC T135 Dc IP64
Ta = -20°C to +55°C

Approved for issue on behalf of the IECEx
Certification Body:

Dave Magee

Position:

Senior Director of Operations, Toronto

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada





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

Manufacturing locations: **Jiangxi Maxon Communication Co. Ltd.**
1666 Tianxiang North Road
Nanchang High-Tech Industrial
Development Zone
Nanchang City Jiangxi Province
China

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CA/CSA/ExTR23.0003/00](#)

Quality Assessment Reports:

[DE/TUR/QAR17.0010/04](#)

[GB/CSAE/QAR23.0005/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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 $U_m = 12Vdc$, $I_m = 3.0A$.

Conditions of Manufacture

The manufacturer will comply with the following:

1. The adapter (for Travel charger) supplied with the mobile phone XP9900 shall be approved as SELV equipment complying with the IEC 62368, or a technically equivalent standard. The maximum charging voltage shall not exceed $U_m = 12Vdc$, and the maximum charging current shall not exceed $I_m = 3A$.
2. The adapter (for DC charger) supplied with the mobile phone XP9900 shall be approved as SELV equipment complying with the IEC 62368, or a technically equivalent standard. The maximum charging voltage shall not exceed $U_m = 5.5Vdc$, and the maximum charging current shall not exceed $I_m = 2A$.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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 IEC 62368 or an equivalent IEC 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.
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 IEC 62368 or an equivalent IEC standard. The maximum voltage U_m and I_m from the device shall not exceed 5Vdc and 900mA, respectively.
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 IEC 62368 or an equivalent IEC 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.
4. Only a passive headset could be connected to via the headset port in the non-hazardous.
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.
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).
7. The equipment shall be protected against excessive UV light emission and high electrostatic charge generating processes.
8. The product shall only be used in locations where there is a low risk of mechanical impact.