



1 **TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 18ATEX2077X** Issue: **3**

4 Equipment: **XP8800 and KWSA80K Smartphones**

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

6 Address: Block B, 2nd Floor, Building #2  
Daqian Industrial Park  
Longchang Road, 67 District  
Baoan  
Shenzhen  
Guangdong 518101  
P.R. 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 60079-0:2012/A11:2013

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

Tamb = -20°C to +55°C

Project Number 0382

Signed: 

Title: Director of Operations

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**CSA Group Netherlands B.V.**  
Utrechtseweg 310,  
6812 AR, Arnhem,  
Netherlands



## SCHEDULE

### TYPE EXAMINATION CERTIFICATE

Sira 18ATEX2077X  
Issue 3

#### 13 DESCRIPTION OF EQUIPMENT

The XP8800 Smartphones are hazardous area Smartphones, and provide a high resolution touch display, camera, laser pointer, LED flashlight, SIM card connector and communication interfaces for Wi-Fi, Bluetooth, GPS and 4G networks.

The enclosure is constructed from plastic, with toughened glass windows.

Equipment model number: XP8800 – PX40YZ

XP8800: Fixed type number

P: Phone.

X: Not relevant for Ex certificate.

4: Ex product (used in hazardous location)

0: Smartphone

Y: Not relevant for Ex certificate.

Z: Not relevant for Ex certificate.

**Variation 1** - This variation introduced the following changes:

- i. The introduction of a new Model KWSA80K was recognised. The Model KWSA80K Smartphones are hazardous area Smartphones, and provide a high resolution touch display, camera, laser pointer, LED flashlight, SIM card connector and communication interfaces for Wi-Fi, Bluetooth, GPS and 4G networks. The enclosure is constructed from plastic, with toughened glass windows. The Model KWSA80K uses identical electrical design, certification ratings and function as the XP8800, but has different enclosure dimensions. The equipment model code is as follows:

Equipment model number: KWSA80K – PX40YZ

KWSA80K: Fixed type number

P: Phone

X: Not relevant for Ex certificate

4: Ex product (used in hazardous location)

0: Smartphone

Y: Not relevant for Ex certificate

Z: Not relevant for Ex certificate

- i. Specific Conditions of Use were updated to reflect the new Model KWSA80K.
- ii. The enclosure structure of KWSA80K is different with XP8800. Hence, re-assess the structure and carried out type tests for the enclosure.
- iii. The product description of the model XP8800 was amended to recognise a network change from 3G to 4G.
- iv. The Specific Conditions of Use and Conditions of Manufacture were amended to recognise the introduction of additional chargers (S42A00/S42A01/S42A03) and change of current value from 1A to 1.5A.

**Variation 2** - This variation introduced the following change:

- i. Re-write items 15.4 and 15.5 in the specific conditions of use, updated description as follows:
  - The equipment shall be protected against excessive UV light emission and high electrostatic charge generating processes.
  - Resistance to impact was tested corresponding to the low risk of mechanical danger. The device has to be protected against strong impacts.

#### 14 DESCRIPTIVE DOCUMENTS

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## SCHEDULE

### TYPE EXAMINATION CERTIFICATE

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Issue 3

#### 14.1 Drawings

Refer to Certificate Annexe.

#### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	02 July 2018	R70166118A	The release of the prime certificate.
1	17 August 2018	R70181953A	The introduction of Variation 1.
2	13 December 2018	R70206763A	The introduction of Variation 2.
3	31st October 2019	0382	<ul style="list-style-type: none"><li>Transfer of certificate <b>Sira 18ATEX2077X</b> from Sira Certification Service to CSA Group Netherlands B.V..</li></ul>

## 15 SPECIFIC CONDITIONS OF USE

15.1 The equipment shall only be charged when in the non-hazardous area using a charger specifically supplied for use with the unit, approved as SELV or Class 2 equipment against IEC 60950-1, IEC 61010-1 or an equivalent standard. The maximum voltage and current from the charger shall not exceed 9Vdc and 1.5A respectively. The following chargers have been approved for use:

- Manufacturer: Salcomp, charger type Firsto\_13.5W, including models S42A02/S42A00/S42A01/S42A03

15.2 The area in which the equipment is to be used shall be a minimum of Pollution degree 2 as defined in IEC 60664-1.

15.3 With the exception of the battery cover, the enclosure of the XP8800/KWSA80K shall not be disassembled in any situation.

15.4 The XP8800/KWSA80K shall be protected from exposure to daylight or light from luminaires.

15.5 The XP8800/KWSA80K was tested in accordance with a low risk of mechanical danger, therefore mechanical impact in normal use shall be avoided.

## 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 reports listed in Section 14.2.

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# Certificate Annexe



**Certificate Number:** Sira 18ATEX2077X  
**Equipment:** XP8800 and KWSA80K Smartphones  
**Applicant:** Sonim Technologies, .

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## Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
20000136_3	1 to 29	DVT2	10 Jan 18	Main Board Schematic.
200000136_2	1 to 10	1.5	10 Jan 18	XP8800 Electronic Part List (BOM)
360000160	1 to 1	DVT2	10 Jan 18	Schematic – XP8800 FPC board
800000127_1	1 to 23	1.0	10 Jan 18	XP8800 exploded View and waterproof solution.
800000127_7	1 to 1	1.1	10 Jan 18	XP8800 Block drawing power tree.
800000127_8	1 to 1	1.1	10 Jan 18	XP8800 block diagram – RF part.
310000745/1/2	1 to 1	1.1	12 Dec 17	Label drawings
330000038	1 to 1	V3.0	10 Jan 18	Film 12 PIN xpanc FPC, XP8
330000039	1 to 1	V3.0	10 Jan 18	Film 10 PIN xpanc FPC, XP8

## Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
800000153_3	1 of 1	V2	09 Aug 18	KWSA80K label drawing.
800000153_4	1 to 22	V1	17 Jul 18	Waterproof solution material Ex.
800000153_1	1 of 1	V1.0	17 Jul 18	Explosive drawing Ex
310000745/1/2	1 of 1	1.7	09 Aug 18	XP8800 label drawing

**Issue 2.** No new drawings were introduced

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