telefication bv
The Netherlands
Chamber of Commerce
51565536
www.telefication.com

telefication

EU-type examination (Module B)

certificate

No: 182140363/AA/00

In compliance with the procedure specified in RD_061, Telefication declares as designated Notified Body 0560 for the European Radio Equipment Directive, that the stated product, complies with the essential requirements, in accordance with Article 3 of Directive 2014/53/EU, as indicated under Annex 1 of this certificate, based on the applicable Technical Standards and Specifications as listed under Annex 2 of this Certificate.

Product description: **Mobile Phone**
Trademark: **Sonim**
Type designation: **XP8800**
Hardware / Software version: **A / 8A.0.0-00-7.1.1-00.01.26**
Variants: **--**

This certificate is granted to manufacturer:

Name: **Sonim Technologies, Inc.**
Address: **1825 S. Grant St., Suite 200**
City: **94402 San Mateo, CA**
Country: **United States**

This certificate remains valid as long as the stated product stays in compliance with the essential requirements of the Radio Equipment Directive.

This certificate has THREE Annexes.

Zevenaar, 28 June 2018

CE

Ramy Nabod
Product Assessor

PRODUCTS
RvA C 224

General Conditions

For each product to which this EU-type examination relates, it has complied to the essential requirements as follows:

Article 3.1

Radio equipment shall be constructed so as to ensure:

C	(a)	The protection of health and safety of persons and of domestic animals and the protection of property, including the objectives with respect to safety requirements set out in Directive 2014/35/EU, but with no voltage limit applying;
C	(b)	An adequate level of electromagnetic compatibility as set out in Directive 2014/30/EU.

Article 3.2

C		Radio equipment shall be so constructed that it both effectively uses and supports the efficient use of radio spectrum in order to avoid harmful interference.

Article 3.3

Radio equipment within certain categories or classes shall be so constructed that it complies with the following essential requirements:

NA	(a)	Radio equipment interworks with accessories, in particular with common chargers;
NA	(b)	Radio equipment interworks via networks with other radio equipment;
NA	(c)	Radio equipment can be connected to interfaces of the appropriate type throughout the Union;
NA	(d)	Radio equipment does not harm the network or its functioning nor misuse network resources, thereby causing an unacceptable degradation of service;.
NA	(e)	Radio equipment incorporates safeguards to ensure that the personal data and privacy of the user and of the subscriber are protected;
NA	(f)	Radio equipment supports certain features ensuring protection from fraud;
NA	(g)	Radio equipment supports certain features ensuring access to emergency services;
NA	(h)	Radio equipment supports certain features in order to facilitate its use by users with a disability;
NA	(i)	Radio equipment supports certain features in order to ensure that software can only be loaded into the radio equipment where the compliance of the combination of the radio equipment and software has been demonstrated.

Legend

C	=	Conform
NC	=	Not Conform
NA	=	Not applicable (for this equipment)
NP	=	Not performed (for this certificate)

- This EU-type examination certificate is limited to the Radio Equipment Directive.
- This EU-type examination certificate is part of the Conformity Assessment procedure Module B and C, as described in annex III of the Radio Equipment Directive.
- The validity of this EU-type examination certificate is limited to products, which are equal to the one(s) assessed for this EU-type examination.
- When the manufacturer (or holder of this EU-type examination certificate) is placing the listed products on the European market or the countries of the EEA, he is obliged to label the products with the prescribed CE logo. The CE logo stands for conformity to all applicable Directives.
  Next to the CE logo the manufacturer has to draw up and issue a Declaration of Conformity, declaring that the product(s) described in this EU type-examination certificate, are in compliance with Directive 2014/53/EU and any other applicable EU harmonization legislation.
- Each product shall be identified by means of type, batch and/or serial numbers and the name of the manufacturer and/or importer.
- If the equipment is to be modified, Telefication shall be notified immediately. Depending on the modifications, Telefication may have additional examinations carried out in consultation with the applicant.
- Enforcement of a new amending directive voids the validity of this EU-type examination certificate.
- In case any referenced standard in this EU-type examination certificate is withdrawn or superseded and the presumption of conformity with the essential requirements has ceased, investigation by Telefication is needed to determine the validity of this EU-type examination.

Remarks and observations

The following conditions are applicable:

Maximum reported SAR value (10g) Head: 0.6 W/kg.
Maximum reported SAR value (10g) Body: 1.5 W/kg @ 5 mm.

Device is restricted to indoor use only when operating within 5150-5350 MHz frequency range.
DFS: Slave without radar detection.
Device supports non-EU bands.

Documentation lodged for this EU-type examination

Test Reports:

- BV 7Layers Communications Technology (Shenzhen) Co. Ltd.: RE170730W001-1, 31 March 2018
- BV 7Layers Communications Technology (Shenzhen) Co. Ltd.: RE170730W001-2, 31 March 2018
- BV 7Layers Communications Technology (Shenzhen) Co. Ltd.: RE170730W001-3, 31 March 2018
- BV 7Layers Communications Technology (Shenzhen) Co. Ltd.: RE170730W001-4, 31 March 2018
- BV 7Layers Communications Technology (Shenzhen) Co. Ltd.: RE170730W001-5, 31 March 2018
- BV 7Layers Communications Technology (Shenzhen) Co. Ltd.: RE170730W001-6, 31 March 2018
- BV 7Layers Communications Technology (Shenzhen) Co. Ltd.: RE170730W001-7, 31 March 2018
- Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch: GC180411C24, 19 June 2018
- Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch: MT180522N013-R1, 28 June 2018
- Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch: RE180601N045, 19 June 2018
- BV 7Layers Communications Technology (Shenzhen) Co. Ltd.: SE170730W001, 02 April 2018
- BV 7Layers Communications Technology (Shenzhen) Co. Ltd.: RM170730W001, 31 March 2018
- BV 7Layers Communications Technology (Shenzhen) Co. Ltd.: LD171016C35, 21 June 2018

Product Documentation:

- Assembly drawings
- Bill of materials
- Block diagram
- Electrical diagrams
- Internal photos
- External photos
- Technical description or data sheets
- Label and label placement
- Risk assessment
- Packaging information
- RED declarations

Technical Standards and Specifications

The product is compliant with:

Draft EN 301 489-1	March, 2017	V2.2.0
Draft EN 301 489-17	March, 2017	V3.2.0
Draft EN 301 489-19	March, 2017	V2.1.0
Draft EN 301 489-52	November, 2016	V1.1.0
EN 300 328	November, 2016	V2.1.1
EN 300 330	February, 2017	V2.1.1
EN 301 511	March, 2017	V12.5.1
EN 301 893	May, 2017	V2.1.1
EN 301 908-1	July, 2016	V11.1.1
EN 301 908-13	July, 2017	V11.1.2
EN 301 908-2	August, 2017	V11.1.2
EN 303 413	June, 2017	V1.1.1
EN 50332-2	October, 2013	
EN 50360	2017	
EN 50566	2017	

EN 60950-1	2006	
EN 60950-1/A1	March, 2010	
EN 60950-1/A11	March, 2009	
EN 60950-1/A12	February, 2011	
EN 60950-1/A2	August, 2013	
EN 62209-1	November, 2016	
EN 62209-2	June, 2010	
EN 62479	September, 2010	
Final Draft EN 301 489-3	March, 2017	V2.1.1
Final Draft EN 303 345	March, 2017	V1.1.7

Technical features and characteristics

The product includes the following features and characteristics:

NFC
- Operating frequency range: 13.56 MHz

FM Receiver
- Operating frequency range: 87.5-108 MHz

GPS receiver
- Operating frequency range: 1575.42 MHz

GLONASS receiver
- Operating frequency range: 1602 MHz

BDS
- Operating frequency range: 1585.65 MHz, 1561.098 MHz

Bluetooth
- Operating frequency range: 2402-2480 MHz (79 channels)
- Maximum output power: 8.87 dBm EIRP average (calculated)
- Maximum antenna gain: -1 dBi

Bluetooth LE
- Operating frequency range: 2402-2480 MHz (40 channels)
- Maximum output power: -1.47 dBm EIRP average (calculated)
- Maximum antenna gain: -1 dBi

IEEE 802.11b/g/n (20/40 MHz)
- Operating frequency range: 2412-2472 MHz (13/9 channels)
- Maximum output power: 16.10 dBm EIRP average (calculated)
- Maximum antenna gain: -1 dBi

IEEE 802.11a/n/ac (20/40/80 MHz)
- Operating frequency range: 5180-5240 MHz (4/2/1 channels)
- Maximum output power: 16.34 dBm EIRP average (calculated)
- Maximum antenna gain: 0 dBi

IEEE 802.11a/n/ac (20/40/80 MHz)
- Operating frequency range: 5260-5320 MHz (4/2/1 channels)
- Maximum output power: 16.68 dBm EIRP average (calculated)
- Maximum antenna gain: 0 dBi

IEEE 802.11a/n/ac (20/40/80 MHz)
- Operating frequency range: 5500-5700 MHz (11/5/2 channels)
- Maximum output power: 16.79 dBm EIRP average (calculated)
- Maximum antenna gain: 0 dBi

GSM 900
- Operating frequency range: 880-915, 925-960 MHz
- Maximum output power: 33 dBm rated

GSM 1800
- Operating frequency range: 1710-1785, 1805-1880 MHz
- Maximum output power: 30 dBm rated

WCDMA Band I
- Operating frequency range: 1920-1980, 2110-2170 MHz
- Maximum output power: 24 dBm rated

WCDMA Band VIII
- Operating frequency range: 880-915, 925-960 MHz
- Maximum output power: 24 dBm rated

LTE FDD Band 1
- Operating frequency range: 1920-1980, 2110-2170 MHz
- Maximum output power: 23 dBm rated

LTE FDD Band 3
- Operating frequency range: 1710-1785, 1805-1880 MHz
- Maximum output power: 23 dBm rated

LTE FDD Band 7
- Operating frequency range: 2500-2570, 2620-2690 MHz
- Maximum output power: 23 dBm rated

LTE FDD Band 8
- Operating frequency range: 880-915, 925-960 MHz
- Maximum output power: 23 dBm rated

LTE FDD Band 20
- Operating frequency range: 832-862, 791-821 MHz
- Maximum output power: 23 dBm rated

LTE FDD Band 28
- Operating frequency range: 758-803, 703-748 MHz
- Maximum output power: 23 dBm rated

LTE TDD Band 38
- Operating frequency range: 2570-2620 MHz
- Maximum output power: 23 dBm rated

LTE TDD Band 40
- Operating frequency range: 2300-2400 MHz
- Maximum output power: 23 dBm rated

The product as described in this EU-type examination includes the following type designations:

- Product description:	Mobile Phone
- Trademark:	Sonim
- Type designation:	XP8800
- Hardware version:	A
- Software version:	8A.0.0-00-7.1.1-00.01.26