Certificate • 認証証書 • 인증서 • diplômes • CertificadO • Свидетельство

Certification of Product Declarations

Application of the Council Directive 2011/65/EU and its amendment directive 2015/863/EU on the restriction of the use of certain hazardous substances in the electrical and electronic equipment

Certificate No.: C-STSGZ1900073

Product Name	:	Smart counter scale
Model(s) No.	:	ACS-L2503
Series Model		ACS-L2501 · ACS-L2502
Brand Name	:	SUNMI
Holder	:	Shanghai Sunmi Technology Co.,Ltd.
Address	:	4 Place Amédée Bonnet, 69002 Lyon, France

Validation of the certificate are subject to:

- The compliance to the surveillance requirements

- Conditions of restriction as stipulated in the test report

The applicant of the certificate is authorized to use this certificate in connection with EC declaration of conformity to the Directive. The certificate is only applicable to the equipment described above.

RoHS

Approved by:

22-Mar-2019 **Chemical Test Manager**

Guangzhou Depuhua Test Services Co., Ltd.
A301, 3/F., Xinhui Building, Guanqiao, Shilou,
Panyu District, Guangzhou, Guangdong, China
Tel: +86-(0)20 6664 1688 Fax: +86-(0)20 6664 1699 E-mail:sts@stsapp.com

EU – TYPE EXAMINATION CERTIFICATE

RADIO EQUIPMENT DIRECTIVE 2014/53/EU

Annex III Module B

MANUFACTURER

Name	:	Shanghai Sunmi Technology Co.,Ltd.
Address	:	Room 605,Block 7,KIC Plaza,No.388 Song Hu Road Yang Pu District
Contact Name & Title	:	Zhang Wentang
Phone number & Email	:	86-18721763396 & zhangwentang@sunmi.com

PRODUCT DESCRIPTION

Trademark/Trade Name	:	SUNMI
Model Number	:	F4600
Product Description	:	Self-Checkout Kiosk

TECHNICAL DOCUMENTATION

Identification	:	F4600		
Signed by (Name & Title)	:	Zhang Wentang	Date :	February 25, 2019
Company Name	:	Shanghai Sunmi Technology Co.,Ltd.		

NOTIFIED BODY

Certificate issued by	:	Notified Body 1177, TIMCO Engineering, Inc.		
Certificate number	:	TCF-455CC19		
Name and Signature	:	Bruno Clavier	Date :	March 5, 2019

The device shall be marked as follows: CE

Based on the evidence presented in the Technical Documentation, TIMCO Engineering, Inc., as appointed Notified Body, has issued this EU-Type Examination Certificate in accordance with Annex III Module B. The product described appears to be in conformity with the essential requirements Article 3.1(a), 3.1(b), and 3.2 of RED 2014/53/EU. This certificate is only valid in conjunction with the related Evaluation Report. This certificate is valid up to (1) the date of cessation of presumption of conformity of any of the superseded standards which were used for testing this product and assessed by Notified Body or (2) the date of modifications to the approved type that may affect the conformity of the apparatus with the essential requirements of this Directive or the conditions for validity of that certificate, whichever comes first.

TIMCO ENGINEERING, INC.
P.O. BOX 370
NEWBERRY, FL 32669
www.timcoengr.com

This Certificate is issued under the provision that TIMCO Engineering Inc. nor its subsidiary companies accept any liability concerning the contents of this document other than forced by law. Reproduction of the Certificate (with Annex) in full is allowed. Reproduction of parts of this certificate may only be allowed by written permission of TIMCO Engineering, Inc.

EU – TYPE EXAMINATION CERTIFICATE
ANNEX 1
TCF-455CC19

Date: March 5, 2019

PRODUCT SPECIFICATIONS

Intended Use / Category	:	BT
RF output power	:	9.96 dBm EIRP
Frequency range (MHz)	:	2402-2480 MHz
Modulation	:	GFSK/π/4-DQPSK/8-DPSK
Antenna type	:	PIFA 2.5dBi

Intended Use / Category	:	BLE
RF output power	:	7.31 dBm EIRP
Frequency range (MHz)	:	2402-2480 MHz
Modulation	:	GFSK
Antenna type	:	PIFA 2.5dBi

Intended Use / Category	:	2.4G Wi-Fi
RF output power	:	17.97 dBm EIRP
Frequency range (MHz)	:	2412-2472 MHz
Modulation	:	DSSS/OFDM
Antenna type	:	PIFA 2.5dBi

According to the Technical Documentation compiled by the Manufacturer, this radio equipment was assessed for compliance with the following standards, which were applied in full:

ESSENTIAL REQUIREMENTS ASSESSED

Aspects		**Standard Number**
Radio	:	EN 300 328 V2.1.1
EMC	:	EN 301 489-1 V2.2.0 EN 301 489-17 V3.2.0 EN 55032:2015 EN 55035:2017
EMF	:	EN 62311:2008 EN 50663:2017
Safety	:	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

LIST OF DOCUMENTS REVIEWED

Item	**Exhibit Description**	
1.	Copy of the Declaration of Conformity	☑
2.	Agent/Representative authorization letter from Manufacturer (if application is filed by someone other than Manufacturer)	☑
3.	Attestation letter for compliance with Article 10(2)	☑
4.	Attestation letter and/or exhibits for compliance with Article 10(10) (i.e. info on packaging completed with users instructions)	☑
5.	A general description of the radio equipment (e.g. Operational Description)	☑

Item	Exhibit Description				
6.	Photographs or illustrations showing external features, marking and internal layout				☑
7.	RED Annex VI Point 8 - Versions of software or firmware affecting compliance with essential requirements				☑
8.	User information and installation instructions				☑
9.	Conceptual design and manufacturing drawings and schemes of components, sub-assemblies, circuits and other relevant similar elements				☑
10.	Descriptions and explanations necessary for the understanding of those drawings and schemes and the operation of the radio equipment				☑
11.	RED Annex III module B - Analysis and assessment of the risk(s)				☑
12.	Where the conformity assessment module in Annex III has been applied, copy of the EU-type examination certificate and its annexes as delivered by the notified body involved				☑
13.	Results of design calculations made, examinations carried out, and other relevant similar elements				☐
14.	Test reports	Item:	Report No.:	Issued Date:	☑
		RF BT	I18D00222-SRD01	February 1, 2019	
		RF BLE	I18D00222-SRD02	February 1, 2019	
		RF Wi-Fi 2.4G	I18D00222-SRD03	February 1, 2019	
		EMC	I18D00222-EMC01	February 22, 2019	
		RF Safety	I18D00222-SAR01	February 26, 2019	
		Electrical Safety	I18D00222-SAF01	January 28, 2019	

EU-TYPE EXAMINATION (MODULE B) CERTIFICATE

Radio Equipment Directive (RED) 2014/53/EU

PHOENIX TESTLAB

Notified Body Number 0700

Recognised by Bundesnetzagentur

BNetzA-bS-02/51-55

This is to certify that:
PHOENIX TESTLAB did undertake the relevant type examination procedures for the radio equipment identified below which was found to be in compliance with the essential requirements of Radio Equipment Directive (RED) 2014/53/EU subject to any conditions in the annex attached hereto.

Certificate No.	18-211789a
Manufacturer	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, KIC Plaza, No.388 Song Hu Road Yang Pu District, Shanghai, China
Product Description	Wireless data POS System; with GSM, WCDMA, LTE, Bluetooth, WIFI, Non-specific SRD, NFC and GPS
Brand Name / Model Name	SUNMI / T5921

The radio equipment meets the following essential requirements

Article 3.1 a): Health and Safety	**Conform**
Article 3.1 b): Electromagnetic Compatibility	**Conform**
Article 3.2: Effective and Efficient Use of Radio Spectrum	**Conform**
Additional Essential Requirements:	**Not applicable**

Date of issue	**2018-08-01**	Expiry date:	**2023-07-31**

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached annex are complied with. The conditions for the validity of this certificate are listed in the Annex. .
This version of the certificate replaces the certificate 18-211789, which is hereby withdrawn.

The attached Annex forms part of this certificate. This certificate consists of 5 pages.

Seal

Signed by Wayne Hsu
Notified Body

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Fax +49(0)5235-9500-28
notifiedbody@phoenix-testlab.de

PHOENIX TESTLAB GmbH
Königswinkel 10
D-32825 Blomberg, Germany
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Annex

Technical description

Frequency Range	GSM 850/900/1800/1900 MHz UTRA FDD Band I/VIII E-UTRA FDD Band 1/3/7/20 E-UTRA TDD Band 38/40 Bluetooth: 2402 - 2480 MHz 2.4G WiFi(HT20): 2412 - 2472 MHz 2.4G WiFi(HT40): 2422 - 2462 MHz 5G WiFi(HT20): 5180 - 5240 MHz 5G WiFi(HT40): 5190 - 5230 MHz Non-specific SRD: 5745 - 5825 MHz NFC:13.56 MHz GPS: 1575.42 MHz(Rx)
Transmit Power	Max. 2W/Max. 1W UTRA FDD: 24 dBm E-UTRA FDD/TDD: 23 dBm Bluetooth: 7.5 dBm EIRP 2.4G WiFi: 18.1 dBm EIRP 5G WiFi: 11.1 dBm EIRP Non-Specific SRD: 12.10 dBm EIRP NFC: -15.20 dBµA/m at 10m
Hardware Version	QP1659_MB_PCB_V3
Software Version	zqp1659_V013_180601_sunmi
System Components	--

Optional Components

Adapter 1 (EU)	TPA-46050200VU Input:100 - 240V, 50/60Hz, 0.3A; Output: 5V/2A (Shenzhen TianYin Electronics Co.,Ltd.)
Adapter 2 (UK)	TPA-05A050200BU01 Input:100 - 240V, 50/60Hz, 0.3A; Output: 5V/2A (Shenzhen TianYin Electronics Co.,Ltd.)

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Approval documentation

External / Internal Photos	Provided, 5 pages / 21 pages
User Manual	Provided, 2 pages
Block Diagram	Provided, 1 page
Circuit Diagram	Provided, 1 page / 35 pages
Operational Description	OPERATIONAL DESCRIPTION, 6 pages
PCB Layout	Provided, 2 pages / 22 pages
Parts Placement	Provided, 1 page /11 pages
Parts List	Provided, 1 page / 14 pages
EU Declaration of Conformity	4 pages, July 24, 2018
Explanation of compliance Article 10(2) and Article 10(10)	Description in the User Manual
Further Documents	Risk Assessment, 3 pages, July 24, 2018

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Applied Standards and Test Reports

Specification	**Laboratory**	**Test Report Number / Version**
EN 60950-1:2006+A11:2009+ A1:2010+A12:2011+A2:2013	Shenzhen BALUN Technology Co.,Ltd.	BL-EC1860357-101 Rev.02
EN 50566:2017 EN 62209-2:2010 EN 62479:2010	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018SAR220
Draft ETSI EN 301 489-1 V2.2.0 Final draft ETSI EN 301 489-3 V2.1.1 Draft ETSI EN 301 489-17 V3.2.0 Draft ETSI EN 301 489-19 V2.1.0 Draft ETSI EN 301 489-52 V1.1.0 EN 55032: 2015	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018EMC221
ETSI EN 301 511 V12.5.1	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018FTA223
ETSI EN 301 511 V12.5.1 ETSI EN 301 908-1 V11.1.1	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018RSE222
ETSI EN 301 908-2 V11.1.2	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018FTA224
ETSI EN 301 908-13 V11.1.2	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018FTA225
ETSI EN 300 328 V2.1.1	Shenzhen BALUN Technology Co.,Ltd.	BL-EC1860357-601 BL-EC1860357-602 Rev.02
ETSI EN 301 893 V2.1.1	Shenzhen BALUN Technology Co.,Ltd.	BL-EC1860357-603 Rev.02
ETSI EN 300 330 V2.1.1	Shenzhen BALUN Technology Co.,Ltd.	BL-EC1860357-401
Final draft ETSI EN 300 440 V2.2.1	Shenzhen BALUN Technology Co.,Ltd.	BL-EC1860357-604
ETSI EN 303 413 V1.1.1	Shenzhen BALUN Technology Co.,Ltd.	BL-EC1860357-605

Limitations / Restrictions

- This device also contains frequency bands that are not operational in EU member states. Only the frequency bands used in European Union have been assessed for this Certificate.
- Operating Temperature range is -10 - +45 degree Celsius.

Notes

1. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with PHOENIX TESTLAB.

2. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/them being placed on the market.

3. The manufacturer shall take all measures necessary so that the manufacturing process and its monitoring ensure conformity of the manufactured radio equipment with the approved type described in the EU-type examination certificate and with the requirements of Directive 2014/53/EU that apply to it.

4. CE The manufacturer shall affix the CE marking to each item of radio equipment that is in conformity with the type described in the EU-type examination certificate and satisfies the applicable requirements of the Directive.

5. The manufacturer shall draw up a written EU declaration of conformity for each radio equipment type and keep it at the disposal of the national authorities for 10 years after the radio equipment has been placed on the market. The EU declaration of conformity shall identify the radio equipment type for which it has been drawn up. A copy of the EU declaration of conformity shall be made available to the relevant authorities upon request.

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Notified Body
EU Type Examination Certificate

Manufacturer company name:	Shanghai Sunmi Technology Co., Ltd.
Manufacturer address:	Room 505, KIC Plaza, No. 388 Song Hu Road, Yang Pu District, Shanghai, China
Description of the radio equipment:	POS System
Trade name/brand name:	SUNMI
Model/type indication:	L1521, L1522, L1523
Software version:	MS64FF_EQ000_2EE0.D4102BE.4B5EF86_180629_100_V01_T23
Hardware version:	741W V1.0
Frequency bands of operation:	718 MHz to 748 MHz; 832 MHz to 862 MHz 880 MHz to 915 MHz; 1710 MHz to 1785 MHz 1920 MHz to 1980 MHz; 2300 MHz to 2400 MHz 2500 MHz to 2570 MHz; 2402 MHz to 2480 MHz 2412 MHz to 2472 MHz; 5180 MHz to 5240 MHz 5745 MHz to 5825 MHz
TD reference:	L1521, L1522, L1523
ACB project number:	ATCB023157
Certificate number:	ATCB023157, issue 1

ACB, Inc. is designated as a Notified Body under the
U.S.-EU Mutual Recognition Agreement for Radio Equipment Directive 2014/53/EU

ACB, Inc.
Notified Body Number 1588
6731 Whittier Avenue, Suite C110
McLean, VA 22101, USA

In the opinion of ACB, Inc., the examination of the technical documentation as drawn up by the manufacturer demonstrates that the essential requirements of Article 3.1a, Article 3.1b and Article 3.2, of Radio Equipment Directive 2014/53/EU have been met. The conformity assessment on the radio equipment listed above and as described in Annex 1 to this EU-type examination certificate has been carried out in accordance with Annex III, Module B, of Radio Equipment Directive 2014/53/EU. This EU-type examination certificate relates only to the documents as provided to ACB, Inc. A list of documentation forming the basis for the EU-type examination is provided in Annex 2 to this EU-type examination certificate.

Notified Body: Hans Chang

21 September 2018
Date

The radio equipment as described and documented in the technical documentation as drawn up by the manufacturer is a POS system.
It supports GPRS and EGPRS/EDGE in the E-GSM 900 MHz and DCS 1800 MHz bands.
It supports UMTS technology in the 900 MHz Band VIII and 2100 MHz Band I.
It supports LTE technology in the 700 MHz Band 28B, 800 MHz Band 20, 900 MHz Band 8, 1800 MHz Band 3, 2100 MHz Band 1, 2300 MHz Band 40, 2600 MHz Band 7 and Band 38.
It supports IEEE 802.11a/b/g/n (HT20 & HT40) Wireless LAN technology in the 2.4 GHz and 5 GHz bands.
It supports Bluetooth Wireless PAN technology in the 2.4 GHz band with EDR and BLE.

This radio equipment also supports operation in frequency bands which are not available for use in Member States of the European Union and EFTA countries and which have not been included in this conformity assessment.
The conformity assessment of this radio equipment is limited to those frequency bands of operation which are available for use in one or more Member States of the European Union and EFTA countries as detailed below.

Details of operation:

Description of service:	E-GSM 900 MHz
Transmit frequency:	880 MHz to 915 MHz
Receive frequency:	925 MHz to 960 MHz
Modulation:	GMSK, 8PSK
Power class:	Class 4 (GMSK), Class E2 (8PSK)
Transmit power:	30.5 dBm, conducted (GPRS/GMSK)
Transmit power:	26.0 dBm, conducted (EGPRS/8PSK)

Description of service:	DCS 1800 MHz
Transmit frequency:	1710 MHz to 1785 MHz
Receive frequency:	1805 MHz to 1880 MHz
Modulation:	GMSK, 8PSK
Power class:	Class 1 (GMSK), Class E2 (8PSK)
Transmit power:	28.1 dBm, conducted (GPRS/GMSK)
Transmit power:	25.5 dBm, conducted (EGPRS/8PSK)

Description of service:	UMTS 900 MHz Band VIII
Transmit frequency:	880 MHz to 915 MHz
Receive frequency:	925 MHz to 960 MHz
Modulation:	BPSK, QPSK
Power class	Class 3
Transmit power:	22.7 dBm, conducted

Description of service:	UMTS 2100 MHz Band I
Transmit frequency:	1920 MHz to 1980 MHz
Receive frequency:	2110 MHz to 2170 MHz
Modulation:	BPSK, QPSK
Power class	Class 3
Transmit power:	21.2 dBm, conducted

Description of service:	E-UTRA LTE Band 1
Transmit frequency:	1920 MHz to 1980 MHz
Receive frequency:	2110 MHz to 2170 MHz
Modulation:	QPSK, 16QAM
Power class:	Class 3
Transmit power:	22.9 dBm, conducted

Description of service:	E-UTRA LTE Band 3
Transmit frequency:	1710 MHz to 1785 MHz
Receive frequency:	1805 MHz to 1880 MHz
Modulation:	QPSK, 16QAM
Power class:	Class 3
Transmit power:	22.9 dBm, conducted

Description of service:	E-UTRA LTE Band 7
Transmit frequency:	2500 MHz to 2570 MHz
Receive frequency:	2620 MHz to 2690 MHz
Modulation:	QPSK, 16QAM
Power class:	Class 3
Transmit power:	22.7 dBm, conducted

Description of service:	E-UTRA LTE Band 8
Transmit frequency:	880 MHz to 915 MHz
Receive frequency:	925 MHz to 960 MHz
Modulation:	QPSK, 16QAM
Power class:	Class 3
Transmit power:	22.7 dBm, conducted

Description of service:	E-UTRA LTE Band 20
Transmit frequency:	832 MHz to 862 MHz
Receive frequency:	791 MHz to 821 MHz
Modulation:	QPSK, 16QAM
Power class:	Class 3
Transmit power:	23.5 dBm, conducted

Description of service:	E-UTRA LTE Band 28
Transmit frequency:	718 MHz to 748 MHz
Receive frequency:	773 MHz to 803 MHz
Modulation:	QPSK, 16QAM
Power class:	Class 3
Transmit power:	23.8 dBm, conducted

Description of service:	E-UTRA LTE Band 38
Transmit frequency:	2570 MHz to 2620 MHz
Receive frequency:	2570 MHz to 2620 MHz
Modulation:	QPSK, 16QAM
Power class:	Class 3
Transmit power:	23.3 dBm, conducted

Description of service:	E-UTRA LTE Band 40
Transmit frequency:	2300 MHz to 2400 MHz
Receive frequency:	2300 MHz to 2400 MHz
Modulation:	QPSK, 16QAM
Power class:	Class 3
Transmit power:	22.7 dBm, conducted

Description of service:	Bluetooth Basic Rate + EDR
Transmit frequency:	2402 MHz to 2480 MHz
Receive frequency:	2402 MHz to 2480 MHz
Modulation:	GFSK, π/4 DQPSK, 8DPSK
Transmit power:	4.3 dBm, e.i.r.p.

Description of service:	Bluetooth Low Energy (BLE)
Transmit frequency:	2402 MHz to 2480 MHz
Receive frequency:	2402 MHz to 2480 MHz
Modulation:	GFSK
Transmit power:	0.4 dBm, e.i.r.p.

Annex 1 to EU-type examination certificate for Radio Equipment Directive 2014/53/EU
Date of issue: 21 September 2018 TD reference: L1521, L1522, L1523
ACB project number/certificate number: ATCB023157, issue 1

Description of service:	IEEE 802.11b/g/n WLAN
Transmit frequency:	2412 MHz to 2472 MHz (HT20)
	2422 MHz to 2462 MHz (HT40)
Receive frequency:	2412 MHz to 2472 MHz (HT20)
	2422 MHz to 2462 MHz (HT40)
Modulation:	DSSS, OFDM
Transmit power:	12.1 dBm, e.i.r.p.

Description of service:	IEEE 802.11a/n WLAN
Transmit frequency:	5180 MHz to 5240 MHz (HT20)
	5190 MHz to 5230 MHz (HT40)
Receive frequency:	5180 MHz to 5240 MHz (HT20)
	5190 MHz to 5230 MHz (HT40)
Modulation:	OFDM
Transmit power:	7.4 dBm, e.i.r.p.

Description of service:	IEEE 802.11a/n WLAN
Transmit frequency:	5745 MHz to 5825 MHz (HT20)
	2755 MHz to 5795 MHz (HT40)
Receive frequency:	2412 MHz to 2472 MHz (HT20)
	2422 MHz to 2462 MHz (HT40)
Modulation:	OFDM
Transmit power:	12.9 dBm, e.i.r.p.

Annex 2 to EU-type examination certificate for Radio Equipment Directive 2014/53/EU
Date of issue: 21 September 2018 TD reference: L1521, L1522, L1523
ACB project number/certificate number: ATCB023157, issue 1

1 Test report:

	Report number:	Dated:
EMC	I18D00129-EMC01	18 September 2018
Radio (GSM)	I18D00129-RFA01	19 September 2018
Radio (WCDMA)	I18D00129-RFA02	19 September 2018
Radio (LTE)	I18D00129-RFA03	31 August 2018
Radio (BT-EDR)	I18D00129-SRD01	12 September 2018
Radio (BLE)	I18D00129-SRD02	12 September 2018
Radio (WLAN 2.4 GHz)	I18D00129-SRD03	18 September 2018
Radio (WLAN 5.2 GHz)	I18D00129-SRD04	20 September 2018
Radio (WLAN 5.8 GHz)	NL-SZ1870512-601	18 September 2018
RF safety	I18D00129-SAR01	19 September 2018
Product safety	I18D00129-SAF01	11 September 2018

2 Technical documentation provided:

Block diagram	Circuit diagram/schematics	External photographs
Internal photographs	Label drawing/location	Operational description
Parts list/bill of materials	PCB layout diagrams	Risk assessment
Test reports	Test setup photographs	User manual
EU declaration of conformity		

3 Standards used to demonstrate conformity with the essential requirements of Radio Equipment Directive 2014/53/EU:

Radio Spectrum (Article 3.2):	EN 301 511 V12.5.1	EN 301 908-1 V11.1.1
	EN 301 908-2 V11.1.2	EN 301 908-13 V11.1.2
	EN 300 328 V2.1.1	EN 301 893 V2.1.1
	EN 300 440 V2.2.1	
EMC (Article 3.1b):	EN 301 489-1 V2.2.0	EN 301 489-17 V3.2.0
	EN 301 489-52 V1.1.0	EN 55032: 2015
	EN 55035:2017	
RF safety (Article 3.1a):	EN 62311: 2008	
Product safety (Article 3.1a):	EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013	

4 Additional information:

This is a Class 2 device.

Radio Equipment Directive 2014/53/EU, Article 10.4: Manufacturers shall keep the technical documentation and the EU declaration of conformity for 10 years after the radio equipment has been placed on the market.

Radio Equipment Directive 2014/53/EU, Article 10.6: Manufacturers shall ensure that radio equipment which they have placed on the market bears a type, batch or serial number or other element allowing its identification, or, where the size or nature of the radio equipment does not allow it, that the required information is provided on the packaging, or in a document accompanying the radio equipment.

Radio Equipment Directive 2014/53/EU, Article 10.7: Manufacturers shall indicate on the radio equipment their name, registered trade name or registered trade mark and the postal address at which they can be contacted or, where the size or nature of radio equipment does not allow it, on its packaging, or in a document accompanying the radio equipment. The address shall indicate a single point at which the manufacturer can be contacted. The contact details shall be in a language easily understood by end-users and market surveillance authorities.

Radio Equipment Directive 2014/53/EU, Article 10.8: Manufacturers shall ensure that the radio equipment is accompanied by instructions and safety information in a language which can be easily understood by consumers and other end-users, as determined by the Member State concerned. Instructions shall include the information required to use radio equipment in accordance with its intended use. Such information shall include, where applicable, a description of accessories and components, including software, which allow the radio equipment to operate as intended. Such instructions and safety information, as well as any labelling, shall be clear, understandable and intelligible.

The following information shall also be included in the case of radio equipment intentionally emitting radio waves:
(a) frequency band(s) in which the radio equipment operates;
(b) maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates.

Radio Equipment Directive 2014/53/EU, Article 10.9: Manufacturers shall ensure that each item of radio equipment is accompanied by a copy of the EU declaration of conformity or by a simplified EU declaration of conformity. Where a simplified EU declaration of conformity is provided, it shall contain the exact internet address where the full text of the EU declaration of conformity can be obtained.

Radio Equipment Directive 2014/53/EU, Article 10.10: In cases of restrictions on putting into service or of requirements for authorization of use, information available on the packaging shall allow the identification of the Member States or the geographical area within a Member State where restrictions on putting into service or requirements for authorization of use exist. Such information shall be completed in the instructions accompanying the radio equipment.

Radio Equipment Directive 2014/53/EU, Article 19.2: On account of the nature of radio equipment, the height of the CE marking affixed to radio equipment may be lower than 5 mm, provided that it remains visible and legible.

Radio Equipment Directive 2014/53/EU, Article 20.1: The CE marking shall be affixed visibly, legibly and indelibly to the radio equipment or to its data plate, unless that is not possible or not warranted on account of the nature of radio equipment. The CE marking shall also be affixed visibly and legibly to the packaging.

Radio Equipment Directive 2014/53/EU, Annex III, Module B.7: The manufacturer shall inform the notified body that holds the technical documentation relating to the EU-type examination certificate of all modifications to the approved type that may affect the conformity of the radio equipment with the essential requirements of this Directive or the conditions for validity of that certificate. Such modifications shall require additional approval in the form of an addition to the original EU-type examination certificate.

This review includes draft standards, deviations from the standards and technical justification for compliance.

In accordance with Notified Body guidance; if there are no changes, a Notified Body EU type examination certificate has a validity of 10 years from the date of issue.

5 Contact information:

For contact with ACB or questions regarding this EU-type examination certificate:
Web: www.acbcert.com http://acbcert.com/contact Tel.: (+1) 703 847 4700

EU-TYPE EXAMINATION (MODULE B) CERTIFICATE

Radio Equipment Directive (RED) 2014/53/EU

PHOENIX TESTLAB

Notified Body Number 0700

Recognised by Bundesnetzagentur

BNetzA-bS-02/51-55

This is to certify that:
PHOENIX TESTLAB did undertake the relevant type examination procedures for the radio equipment identified below which was found to be in compliance with the essential requirements of Radio Equipment Directive (RED) 2014/53/EU subject to any conditions in the annex attached hereto.

Certificate No.	18-211611
Manufacturer	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, KIC Plaza, No.388 Song Hu Road Yang Pu District, Shanghai, China
Product Description	Handheld Wireless Terminal; with GSM, WCDMA, LTE, Bluetooth, WIFI, Non-specific SRD, NFC and GPS
Brand Name / Model Name	SUNMI / T8900, T8901

The radio equipment meets the following essential requirements

Article 3.1 a): Health and Safety	**Conform**
Article 3.1 b): Electromagnetic Compatibility	**Conform**
Article 3.2: Effective and Efficient Use of Radio Spectrum	**Conform**
Additional Essential Requirements:	**Not applicable**

Date of issue	**2018-07-19**	Expiry date:	**2023-07-18**

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached annex are complied with. The conditions for the validity of this certificate are listed in the Annex.

The attached Annex forms part of this certificate. This certificate consists of 5 pages.

Seal

Signed by Andy Yang
Notified Body

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Annex

Technical description

Frequency Range	GSM 850/900/1800/1900 MHz UTRA FDD Band I/VIII E-UTRA FDD Band 1/3/7/20 E-UTRA FDD Band 38/40 Bluetooth: 2402 - 2480 MHz 2.4G WiFi(HT20): 2412 - 2472 MHz 2.4G WiFi(HT40): 2422 - 2462 MHz 5G WiFi(HT20): 5180 - 5320 MHz , 5500-5700MHz 5G WiFi(HT40): 5190 - 5310 MHz, 5510-5670MHz Non-specific SRD: 5745 - 5825 MHz NFC:13.56 MHz GPS: 1575.42 MHz(Rx)
Transmit Power	Max. 2W/Max. 1W UTRA FDD: 24 dBm E-UTRA FDD/TDD: 23 dBm Bluetooth: 9.43 dBm EIRP 2.4G WiFi: 14.02 dBm EIRP 5G WiFi(5150-5350MHz): 9.863 dBm EIRP 5G WiFi(5500-5700MHz): 10.104 dBm EIRP Non-Specific SRD: 9.09 dBm EIRP NFC: 6.994 dBµA/m at 10m
Hardware Version	2DD021_V2.01
Software Version	L2_V1.7_20180423

System Components

Battery	JKFX, 3.8V/5000mAh (Jiade Energy Technology (Zhuhai) Co., Ltd.)

Optional Components

Adapter	TPA-10D050200VU01 Input:100 - 240V, 50/60Hz, 0.3A; Output: 5V/2A (Shenzhen TianYin Electronics Co.,Ltd.)
USB Cable	3.2.23.0026

Approval documentation

External / Internal Photos	Provided, 5 pages / 6 pages
User Manual	Product Description, 2 pages
Block Diagram	Provided, 1 page
Circuit Diagram	Provided, 33 pages
Operational Description	OPERATIONAL DESCRIPTION, 2 pages
PCB Layout	Provided, 2 pages
Parts Placement	Provided, 2 pages
Parts List	Provided, 15 pages
EU Declaration of Conformity	2 pages, July 4, 2018
Explanation of compliance Article 10(2) and Article 10(10)	Description in the User Manual
Further Documents	Risk Assessment, 1 page, July 6, 2018 Product Change Description, 1 page, June 26, 2018

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Applied Standards and Test Reports

Specification	**Laboratory**	**Test Report Number / Version**
EN 60950-1:2006+A11:2009+ A1:2010+A12:2011+A2:2013	East China Institute of Telecommunications	I18D00086-SAF01 Rev.01
EN 50332-2:2013	East China Institute of Telecommunications	I18D00086-ACO01
EN 62471:2008	UL RTP	13CA51589
EN 50566:2017 EN 62209-2:2010	Shenzhen BALUN Technology Co.,Ltd.	BL-SZ1850442-701 Rev.02
EN 50566:2017 EN 62209-2:2010 EN 50663:2017	East China Institute of Telecommunications	I18D00086-SAR01
Draft ETSI EN 301 489-1 V2.2.0 Final draft ETSI EN 301 489-3 V2.1.1 Draft ETSI EN 301 489-17 V3.2.0 Draft ETSI EN 301 489-19 V2.1.0 Draft ETSI EN 301 489-52 V1.1.0 EN 55032: 2015 EN 55035: 2017	East China Institute of Telecommunications	I18D00086-EMC01
ETSI EN 301 511 V12.5.1	East China Institute of Telecommunications	I18D00086-RFA01
ETSI EN 301 908-1 V11.1.1 ETSI EN 301 908-2 V11.1.2	East China Institute of Telecommunications	I18D00086-RFA02
ETSI EN 301 908-1 V11.1.1 ETSI EN 301 908-13 V11.1.2	East China Institute of Telecommunications	I18D00086-RFA03
ETSI EN 300 328 V2.1.1	East China Institute of Telecommunications	I18D00086-SRD01 I18D00086-SRD02 I18D00086-SRD03
ETSI EN 301 893 V2.1.1	East China Institute of Telecommunications Shenzhen BALUN Technology Co.,Ltd.	I18D00086-SRD05 Rev.01 BL-SZ186369-601 Rev.02
ETSI EN 300 330 V2.1.1	East China Institute of Telecommunications	I18D00086-EMC04
Final draft ETSI EN 300 440 V2.2.1	Shenzhen BALUN Technology Co.,Ltd.	BL-SZ1850442-601 Rev.02
ETSI EN 303 413 V1.1.1	East China Institute of Telecommunications	I18D00086-SRD04

Limitations / Restrictions

- This device also contains frequency bands that are not operational in EU member states. Only the frequency bands used in European Union have been assessed for this Certificate.
- Operating Temperature range is 0 - +35 degree Celsius.
- Body SAR Separation distance is 5mm.

Notes

1. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with PHOENIX TESTLAB.

2. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/them being placed on the market.

3. The manufacturer shall take all measures necessary so that the manufacturing process and its monitoring ensure conformity of the manufactured radio equipment with the approved type described in the EU-type examination certificate and with the requirements of Directive 2014/53/EU that apply to it.

4. CE The manufacturer shall affix the CE marking to each item of radio equipment that is in conformity with the type described in the EU-type examination certificate and satisfies the applicable requirements of the Directive.

5. The manufacturer shall draw up a written EU declaration of conformity for each radio equipment type and keep it at the disposal of the national authorities for 10 years after the radio equipment has been placed on the market. The EU declaration of conformity shall identify the radio equipment type for which it has been drawn up. A copy of the EU declaration of conformity shall be made available to the relevant authorities upon request.

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EU-TYPE EXAMINATION (MODULE B) CERTIFICATE

Radio Equipment Directive (RED) 2014/53/EU

PHOENIX TESTLAB

Notified Body Number 0700

Recognised by Bundesnetzagentur

BNetzA-bS-02/51-55

This is to certify that:
PHOENIX TESTLAB did undertake the relevant type examination procedures for the radio equipment identified below which was found to be in compliance with the essential requirements of Radio Equipment Directive (RED) 2014/53/EU subject to any conditions in the annex attached hereto.

Certificate No.	18-211611
Manufacturer	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, KIC Plaza, No.388 Song Hu Road Yang Pu District, Shanghai, China
Product Description	Handheld Wireless Terminal; with GSM, WCDMA, LTE, Bluetooth, WIFI, Non-specific SRD, NFC and GPS
Brand Name / Model Name	SUNMI / T8900, T8901

The radio equipment meets the following essential requirements

Article 3.1 a): Health and Safety	**Conform**
Article 3.1 b): Electromagnetic Compatibility	**Conform**
Article 3.2: Effective and Efficient Use of Radio Spectrum	**Conform**
Additional Essential Requirements:	**Not applicable**

Date of issue	**2018-07-19**	Expiry date:	**2023-07-18**

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached annex are complied with. The conditions for the validity of this certificate are listed in the Annex.

The attached Annex forms part of this certificate. This certificate consists of 5 pages.

Seal

Signed by Andy Yang
Notified Body

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Annex

Technical description

Frequency Range	GSM 850/900/1800/1900 MHz UTRA FDD Band I/VIII E-UTRA FDD Band 1/3/7/20 E-UTRA FDD Band 38/40 Bluetooth: 2402 - 2480 MHz 2.4G WiFi(HT20): 2412 - 2472 MHz 2.4G WiFi(HT40): 2422 - 2462 MHz 5G WiFi(HT20): 5180 - 5320 MHz , 5500-5700MHz 5G WiFi(HT40): 5190 - 5310 MHz, 5510-5670MHz Non-specific SRD: 5745 - 5825 MHz NFC:13.56 MHz GPS: 1575.42 MHz(Rx)
Transmit Power	Max. 2W/Max. 1W UTRA FDD: 24 dBm E-UTRA FDD/TDD: 23 dBm Bluetooth: 9.43 dBm EIRP 2.4G WiFi: 14.02 dBm EIRP 5G WiFi(5150-5350MHz): 9.863 dBm EIRP 5G WiFi(5500-5700MHz): 10.104 dBm EIRP Non-Specific SRD: 9.09 dBm EIRP NFC: 6.994 dBµA/m at 10m
Hardware Version	2DD021_V2.01
Software Version	L2_V1.7_20180423

System Components

Battery	JKFX, 3.8V/5000mAh (Jiade Energy Technology (Zhuhai) Co., Ltd.)

Optional Components

Adapter	TPA-10D050200VU01 Input:100 - 240V, 50/60Hz, 0.3A; Output: 5V/2A (Shenzhen TianYin Electronics Co.,Ltd.)
USB Cable	3.2.23.0026

Approval documentation

External / Internal Photos	Provided, 5 pages / 6 pages
User Manual	Product Description, 2 pages
Block Diagram	Provided, 1 page
Circuit Diagram	Provided, 33 pages
Operational Description	OPERATIONAL DESCRIPTION, 2 pages
PCB Layout	Provided, 2 pages
Parts Placement	Provided, 2 pages
Parts List	Provided, 15 pages
EU Declaration of Conformity	2 pages, July 4, 2018
Explanation of compliance Article 10(2) and Article 10(10)	Description in the User Manual
Further Documents	Risk Assessment, 1 page, July 6, 2018 Product Change Description, 1 page, June 26, 2018

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Applied Standards and Test Reports

Specification	**Laboratory**	**Test Report Number / Version**
EN 60950-1:2006+A11:2009+ A1:2010+A12:2011+A2:2013	East China Institute of Telecommunications	I18D00086-SAF01 Rev.01
EN 50332-2:2013	East China Institute of Telecommunications	I18D00086-ACO01
EN 62471:2008	UL RTP	13CA51589
EN 50566:2017 EN 62209-2:2010	Shenzhen BALUN Technology Co.,Ltd.	BL-SZ1850442-701 Rev.02
EN 50566:2017 EN 62209-2:2010 EN 50663:2017	East China Institute of Telecommunications	I18D00086-SAR01
Draft ETSI EN 301 489-1 V2.2.0 Final draft ETSI EN 301 489-3 V2.1.1 Draft ETSI EN 301 489-17 V3.2.0 Draft ETSI EN 301 489-19 V2.1.0 Draft ETSI EN 301 489-52 V1.1.0 EN 55032: 2015 EN 55035: 2017	East China Institute of Telecommunications	I18D00086-EMC01
ETSI EN 301 511 V12.5.1	East China Institute of Telecommunications	I18D00086-RFA01
ETSI EN 301 908-1 V11.1.1 ETSI EN 301 908-2 V11.1.2	East China Institute of Telecommunications	I18D00086-RFA02
ETSI EN 301 908-1 V11.1.1 ETSI EN 301 908-13 V11.1.2	East China Institute of Telecommunications	I18D00086-RFA03
ETSI EN 300 328 V2.1.1	East China Institute of Telecommunications	I18D00086-SRD01 I18D00086-SRD02 I18D00086-SRD03
ETSI EN 301 893 V2.1.1	East China Institute of Telecommunications Shenzhen BALUN Technology Co.,Ltd.	I18D00086-SRD05 Rev.01 BL-SZ186369-601 Rev.02
ETSI EN 300 330 V2.1.1	East China Institute of Telecommunications	I18D00086-EMC04
Final draft ETSI EN 300 440 V2.2.1	Shenzhen BALUN Technology Co.,Ltd.	BL-SZ1850442-601 Rev.02
ETSI EN 303 413 V1.1.1	East China Institute of Telecommunications	I18D00086-SRD04

Limitations / Restrictions

- This device also contains frequency bands that are not operational in EU member states. Only the frequency bands used in European Union have been assessed for this Certificate.
- Operating Temperature range is 0 - +35 degree Celsius.
- Body SAR Separation distance is 5mm.

Notes

1. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with PHOENIX TESTLAB.

2. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/them being placed on the market.

3. The manufacturer shall take all measures necessary so that the manufacturing process and its monitoring ensure conformity of the manufactured radio equipment with the approved type described in the EU-type examination certificate and with the requirements of Directive 2014/53/EU that apply to it.

4. CE The manufacturer shall affix the CE marking to each item of radio equipment that is in conformity with the type described in the EU-type examination certificate and satisfies the applicable requirements of the Directive.

5. The manufacturer shall draw up a written EU declaration of conformity for each radio equipment type and keep it at the disposal of the national authorities for 10 years after the radio equipment has been placed on the market. The EU declaration of conformity shall identify the radio equipment type for which it has been drawn up. A copy of the EU declaration of conformity shall be made available to the relevant authorities upon request.

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EU-TYPE EXAMINATION (MODULE B) CERTIFICATE

Radio Equipment Directive (RED) 2014/53/EU

PHOENIX TESTLAB

Notified Body Number 0700

Recognised by Bundesnetzagentur

BNetzA-bS-02/51-55

This is to certify that:
PHOENIX TESTLAB did undertake the relevant type examination procedures for the radio equipment identified below which was found to be in compliance with the essential requirements of Radio Equipment Directive (RED) 2014/53/EU subject to any conditions in the annex attached hereto.

Certificate No.	18-212178
Manufacturer	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505 No.388 Song Hu Road, Shanghai, China
Product Description	Wireless data ordering system; Terminal with WiFi, Bluetooth and Non-specific Short Range Device
Brand Name / Model Name	SUNMI / T7820

The radio equipment meets the following essential requirements

Article 3.1 a): Health and Safety	**Conform**
Article 3.1 b): Electromagnetic Compatibility	**Conform**
Article 3.2: Effective and Efficient Use of Radio Spectrum	**Conform**
Additional Essential Requirements:	**Not applicable**

Date of issue	**2018-09-17**	Expiry date:	**2023-09-16**

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached annex are complied with. The conditions for the validity of this certificate are listed in the Annex.

BENANNTE STELLE PHOENIX TESTLAB NOTIFIED BODY

The attached Annex forms part of this certificate. This certificate consists of 3 pages.

Seal

Signed by Wayne Hsu
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Annex

Technical description

Frequency Range	Bluetooth: 2402 - 2480 MHz 2.4G WiFi (20 MHz): 2412 - 2472 MHz 2.4G WiFi (40 MHz): 2422 - 2462 MHz 5G WiFi (20 MHz): 5180 - 5240 MHz, 5G WiFi (40 MHz): 5190 - 5230 MHz, Non-specific SRD: 5745 - 5825 MHz
Transmit Power	Bluetooth: 9.90 dBm EIRP 2.4G WiFi: 18.10 dBm EIRP 5G WiFi:15.00 dBm EIRP Non-specific SRD: 13.97 dBm EIRP
Hardware Version	2DD021_V2.01
Software Version	M2_V0.7_20180719_wifionly

System Components

Battery	JKHS, 3.8V, 3000mAh, Jiade Energy Technology (Zhuhai) Co.,Ltd

Optional Components

Adapter	JT-M05100BEU,. Input: AC 100V-240V, 50/60Hz 150mA Output: DC 5V, 1000mA, Shenzhen JINGRICHANG Electronic Technology Co.,Ltd
USB Cable	JSUB0016-S01, 100cm, Dong Guan Jia Sheng Electronic Wire Co., Ltd.

Approval documentation

External / Internal Photos	provided, 7 pages / 4 pages
User Manual	provided, 2 pages
Block Diagram	provided, 1 page
Circuit Diagram	provided, 23 pages
Operational Description	Operational Description, 1 page
PCB Layout	provided, 2 pages / 4 pages
Parts Placement	provided, 2 pages / 2 pages
Parts List	provided, 9 pages
EU Declaration of Conformity	1 page, September 14, 2018
Explanation of compliance Article 10(2) and Article 10(10)	Description in the User Manual
Further Documents	Risk Assessment, 2 pages, September 12, 2018

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Applied Standards and Test Reports

Specification	Laboratory	Test Report Number / Version
EN 60950-1:2006+A11:2009+ A1:2010+A12:2011+A2:2013	The State Radio_monitoring_center Testing Center (SRTC)	SRTC2018-9003(R)-0059
EN 50566:2017 EN 62479:2010 EN 62209-2:2010	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018SAR264 V1.0
Draft ETSI EN 301 489-1 V2.2.0 Final Draft ETSI EN 301 489-3 V2.1.1 Draft ETSI EN 301 489-17 V3.2.0	The State Radio_monitoring_center Testing Center (SRTC)	SRTC2018-9003(R)-0058
ETSI EN 300 328 V2.1.1	The State Radio_monitoring_center Testing Center (SRTC)	SRTC2018-9004(R)-18081303(D) SRTC2018-9004(R)-18081303(E) SRTC2018-9004(R)-18081303(F)
ETSI EN 301 893 V2.1.1	The State Radio_monitoring_center Testing Center (SRTC)	SRTC2018-9004(R) -18081303(G)
ETSI EN 300 440 V2.1.1	The State Radio_monitoring_center Testing Center (SRTC)	SRTC2018-9004(R)-18081303(P)

Limitations / Restrictions

Operating Temperature range is -10 ~ 45 degree Celsius (power supply by battery)

0 ~ 40 degree Celsius (power supply by adapter)

Body SAR Separation distance is 5mm.

Notes

1. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with PHOENIX TESTLAB.

2. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/them being placed on the market.

3. The manufacturer shall take all measures necessary so that the manufacturing process and its monitoring ensure conformity of the manufactured radio equipment with the approved type described in the EU-type examination certificate and with the requirements of Directive 2014/53/EU that apply to it.

4. CE The manufacturer shall affix the CE marking to each item of radio equipment that is in conformity with the type described in the EU-type examination certificate and satisfies the applicable requirements of the Directive.

5. The manufacturer shall draw up a written EU declaration of conformity for each radio equipment type and keep it at the disposal of the national authorities for 10 years after the radio equipment has been placed on the market. The EU declaration of conformity shall identify the radio equipment type for which it has been drawn up. A copy of the EU declaration of conformity shall be made available to the relevant authorities upon request.

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EU-TYPE EXAMINATION (MODULE B) CERTIFICATE

Radio Equipment Directive (RED) 2014/53/EU

PHOENIX TESTLAB

Notified Body Number 0700

Recognised by Bundesnetzagentur

BNetzA-bS-02/51-55

This is to certify that:
PHOENIX TESTLAB did undertake the relevant type examination procedures for the radio equipment identified below which was found to be in compliance with the essential requirements of Radio Equipment Directive (RED) 2014/53/EU subject to any conditions in the annex attached hereto.

Certificate No.	18-212167
Manufacturer	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505 No.388 Song Hu Road Shanghai, China
Product Description	Wireless data ordering system; with GSM, WCDMA, LTE, Bluetooth, WiFi, GPS and Non-specific SRD
Brand Name / Model Name	SUNMI / T7821

The radio equipment meets the following essential requirements

Article 3.1 a): Health and Safety	**Conform**
Article 3.1 b): Electromagnetic Compatibility	**Conform**
Article 3.2: Effective and Efficient Use of Radio Spectrum	**Conform**
Additional Essential Requirements:	**Not applicable**

Date of issue	**2018-09-14**	Expiry date:	**2023-09-13**

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached annex are complied with. The conditions for the validity of this certificate are listed in the Annex.

BENANNTE STELLE PHOENIX TESTLAB NOTIFIED BODY

Seal

The attached Annex forms part of this certificate. This certificate consists of 4 pages.

Signed by Wayne Hsu
Notified Body

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Annex

Technical description

Frequency Range	GSM 850 / 900 / 1800 / 1900 MHz Bluetooth: 2402 - 2480 MHz 2.4G WiFi (20 MHz): 2412 - 2472 MHz 2.4G WiFi (40 MHz): 2422 - 2462 MHz 5G WiFi(20 MHz): 5180 - 5240 MHz 5G WiFi(40 MHz): 5190 - 5230 MHz 5.8G Non-specific SRD: 5745 - 5825 MHz (7 CH) GPS: 1575.42 MHz (Rx) UTRA FDD Band I/VIII E-UTRA FDD Band 1/3/7/20 E-UTRA TDD Band 38/40
Transmit Power	Max. 2W / Max. 1W Bluetooth: 9.9 dBm EIRP 2.4G WiFi: 18.1 dBm EIRP 5G WiFi: 5150-5250 MHz: 15.0 dBm EIRP 5.8G Non-specific SRD: 13.96 dBm EIRP UTRA FDD: 24 dBm E-UTRA FDD/TDD: 23 dBm
Hardware Version	2DD021_V2.01
Software Version	M2_V0.6_20180716_4G

System Components

Battery	JKHS, 3.8V 3000mAh, Jiade Energy Technology（Zhuhai）Co.,Ltd.

Optional Components

Adapter	JT-M05100BEU, Input: AC 100-240V 50/60Hz 0.15A Output: DC 5.0V 1000mA, ShenZhen JINGRICHANG Electronic Technology Co.,LTD
USB	JSUB0016-S01, 100cm, Dong Guan Jia Sheng Electronic Wire Co.,Ltd

Approval documentation

External / Internal Photos	provided, 4 pages / 10 pages / 1 page
User Manual	provided, 2 pages
Block Diagram	provided, 1 page
Circuit Diagram	provided, 33 pages
Operational Description	OPERATIONAL DESCRIPTION, 3 pages
Parts Placement	provided, 1 page x 2
PCB Layout	provided, 10 pages
Parts List	provided, 8 pages
EU Declaration of Conformity	provided, 3 pages, August 28, 2018
Explanation of compliance Article 10(2) and Article 10(10)	provided in User Manual
Further Documents	Risk Assessment, 3 pages, August 28, 2018

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Applied Standards and Test Reports

Specification	Laboratory	Test Report Number / Version
EN 60950-1:2006+A11:2009+ A1:2010+A12:2011+A2:2013	The State Radio_monitoring_center Testing Center (SRTC)	SRTC2018-9003(R)-0052
EN 50566:2017 EN 62209-2:2010 EN 62479:2010	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018SAR258 V3.0
Draft ETSI EN 301 489-1 V2.2.0 Final draft ETSI EN 301 489-3 V2.1.1 Draft ETSI EN 301 489-17 V3.2.0 Draft ETSI EN 301 489-19 V2.1.0 Draft ETSI EN 301 489-52 V1.1.0	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018EMC259 V2.0
ETSI EN 301 511 V12.5.1 ETSI EN 301 908-1 V11.1.1	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018FTA260 V1.0
ETSI EN 301 511 V12.5.1	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018FTA261 V1.0
ETSI EN 301 908-2 V11.1.2	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018FTA262 V1.0
ETSI EN 301 908-13 V11.1.2	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018FTA263 V1.0
ETSI EN 300 328 V2.1.1	The State Radio_monitoring_center Testing Center (SRTC)	SRTC2018-9004(R)-18080802(D) SRTC2018-9004(R)-18080802(E) SRTC2018-9004(R)-18080802(F)
ETSI EN 301 893 V2.1.1	The State Radio_monitoring_center Testing Center (SRTC)	SRTC2018-9004(R)-18080802(G)
ETSI EN 303 413 V1.1.1	The State Radio_monitoring_center Testing Center (SRTC)	SRTC2018-9004(R)-18080802(J)
ETSI EN 300 440 V2.1.1	The State Radio_monitoring_center Testing Center (SRTC)	SRTC2018-9004(R)-18080802(P)

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Limitations / Restrictions

Operating Temperature range -10 - 45°C (power supply by battery)

0 - 40°C (power supply by adapter)

Body SAR Separation distance is 5mm.

This device also contains frequency bands that are not operational in EU member states. Only the frequency bands used in European Union have been assessed for this EU-TYPE EXAMINATION (MODULE B) CERTIFICATE.

Notes

1. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with PHOENIX TESTLAB.

2. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/them being placed on the market.

3. The manufacturer shall take all measures necessary so that the manufacturing process and its monitoring ensure conformity of the manufactured radio equipment with the approved type described in the EU-type examination certificate and with the requirements of Directive 2014/53/EU that apply to it.

4. CE The manufacturer shall affix the CE marking to each item of radio equipment that is in conformity with the type described in the EU-type examination certificate and satisfies the applicable requirements of the Directive.

5. The manufacturer shall draw up a written EU declaration of conformity for each radio equipment type and keep it at the disposal of the national authorities for 10 years after the radio equipment has been placed on the market. The EU declaration of conformity shall identify the radio equipment type for which it has been drawn up. A copy of the EU declaration of conformity shall be made available to the relevant authorities upon request.

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EU-TYPE EXAMINATION (MODULE B) CERTIFICATE

Radio Equipment Directive (RED) 2014/53/EU

PHOENIX TESTLAB

Notified Body Number 0700

Recognised by Bundesnetzagentur

BNetzA-bS-02/51-55

This is to certify that:
PHOENIX TESTLAB did undertake the relevant type examination procedures for the radio equipment identified below which was found to be in compliance with the essential requirements of Radio Equipment Directive (RED) 2014/53/EU subject to any conditions in the annex attached hereto.

Certificate No.	18-211283
Manufacturer	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505 No.388 Song Hu Road Shanghai, China
Product Description	Smart POS system; Handheld POS device with WiFi, Bluetooth, GSM, WCDMA, LTE, GPS, NFC and Non-specific Short Range Device
Brand Name / Model Name	SUNMI / W6900

The radio equipment meets the following essential requirements

Article 3.1 a): Health and Safety	**Conform**
Article 3.1 b): Electromagnetic Compatibility	**Conform**
Article 3.2: Effective and Efficient Use of Radio Spectrum	**Conform**
Additional Essential Requirements:	**Not applicable**

Date of issue	**2018-06-19**	Expiry date:	**2023-06-18**

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached annex are complied with. The conditions for the validity of this certificate are listed in the Annex.

The attached Annex forms part of this certificate. This certificate consists of 5 pages.

Seal

Signed by Wayne Hsu
Notified Body

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Annex

Technical description

Frequency Range	GSM 900 / DCS 1800 MHz Bluetooth: 2402 - 2480 MHz 2.4G WiFi (20 MHz): 2412 - 2472 MHz 2.4G WiFi (40 MHz): 2422 - 2462 MHz 5G WiFi (20 MHz): 5180 - 5240 MHz 5G WiFi (40 MHz): 5190 - 5230 MHz GPS: 1575.42 MHz (Rx) UTRA FDD Band I/VIII E-UTRA FDD Band 1/3/7/20 E-UTRA TDD Band 38/40 NFC: 13.56 MHz Non-specific SRD: 5745 - 5825 MHz
Transmit Power	Max. 2W / Max. 1W Bluetooth: 9.10 dBm EIRP 2.4G WiFi: 18.20 dBm EIRP 5G WiFi: 16.40 dBm EIRP UTRA FDD: 24 dBm E-UTRA FDD/TDD: 23 dBm NFC: -7.27 dBuA/m at 10m Non-specific SRD: 11.59 dBm EIRP
Hardware Version	V1.1
Software Version	B0451_B1BOM_V1.0.1_20180427

System Components

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Optional Components

Adapter 1	TPA-46050200VU, Shenzhen Tianyin Electronics Co.,Ltd. Input: AC 100V-240V, 50/60Hz 300mA Output: DC 5V, 2000mA
Adapter 2	TPA-59050200BU, Shenzhen Tianyin Electronics Co.,Ltd. Input: AC 100V-240V, 50/60Hz 300mA Output: DC 5V, 2000mA

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Approval documentation

External / Internal Photos	provided, 6 pages / 11 pages
User Manual	provided, 2 pages
Block Diagram	provided, 1 page
Circuit Diagram	provided, 21 pages / 2 pages
Operational Description	Operational Description, 8 pages
PCB Layout	provided, 8 pages / 4 pages
Parts Placement	provided, 2 pages / 2 pages
Parts List	provided, 10 pages / 1 page
EU Declaration of Conformity	4 pages, June 06, 2018
Explanation of compliance Article 10(2) and Article 10(10)	Description in the User Manual
Further Documents	Risk Assessment, 3 pages, June 06, 2018

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Applied Standards and Test Reports

Specification	Laboratory	Test Report Number / Version
EN 60950-1:2006+A11:2009+ A1:2010+A12:2011+A2:2013	Shenzhen BALUN Technology Co., Ltd.	BL-EC1850201-101 Rev. 02
EN 50566:2017 EN 62479:2010 EN 62209-2:2010	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018SAR156 V2.0
Draft ETSI EN 301 489-1 V2.2.0 Final Draft ETSI EN 301 489-3 V2.1.1 Draft ETSI EN 301 489-17 V3.2.0 Draft ETSI EN 301 489-19 V2.1.0 Draft ETSI EN 301 489-52 V1.1.0	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018EMC157 V1.0
ETSI EN 301 511 V12.5.1	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018FTA153 V1.0
ETSI EN 301 908-2 V11.1.2	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018FTA154 V1.0
ETSI EN 301 908-13 V11.1.2	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018FTA155 V1.0
ETSI EN 301 511 V12.5.1 ETSI EN 301 908-1 V11.1.1	Shanghai Tejet Communications Technology Co., Ltd Testing Center	2018RSE158 V1.0
ETSI EN 300 328 V2.1.1	Shenzhen BALUN Technology Co., Ltd.	BL-EC1850201-601 BL-EC1850201-602
ETSI EN 301 893 V2.1.1	Shenzhen BALUN Technology Co., Ltd.	BL-EC1850201-603 Rev. 02
Final Draft ETSI EN 300 440 V2.2.1	Shenzhen BALUN Technology Co., Ltd.	BL-EC1850201-604 Rev. 02
ETSI EN 303 413 V1.1.1	Shenzhen BALUN Technology Co., Ltd.	BL-EC1850201-605
ETSI EN 300 330 V2.1.1	Shenzhen BALUN Technology Co., Ltd.	BL-EC1850201-401

Limitations / Restrictions

Operating Temperature range is -10 ~ 45 degree Celsius (Power by battery)

Operating Temperature range is 0 ~ 40 degree Celsius (Power by adapter)

Notes

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2. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/them being placed on the market.

3. The manufacturer shall take all measures necessary so that the manufacturing process and its monitoring ensure conformity of the manufactured radio equipment with the approved type described in the EU-type examination certificate and with the requirements of Directive 2014/53/EU that apply to it.

4. CE The manufacturer shall affix the CE marking to each item of radio equipment that is in conformity with the type described in the EU-type examination certificate and satisfies the applicable requirements of the Directive.

5. The manufacturer shall draw up a written EU declaration of conformity for each radio equipment type and keep it at the disposal of the national authorities for 10 years after the radio equipment has been placed on the market. The EU declaration of conformity shall identify the radio equipment type for which it has been drawn up. A copy of the EU declaration of conformity shall be made available to the relevant authorities upon request.

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EU-TYPE EXAMINATION (MODULE B) CERTIFICATE

Radio Equipment Directive (RED) 2014/53/EU

PHOENIX TESTLAB

Notified Body Number 0700

Recognised by Bundesnetzagentur

BNetzA-bS-02/51-55

This is to certify that:
PHOENIX TESTLAB did undertake the relevant type examination procedures for the radio equipment identified below which was found to be in compliance with the essential requirements of Radio Equipment Directive (RED) 2014/53/EU subject to any conditions in the annex attached hereto.

Certificate No.	18-211363
Manufacturer	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, KIC Plaza, No.388 Song Hu Road Yang Pu District, Shanghai, China
Product Description	Smart POS System; with GSM, WCDMA, LTE, Bluetooth, WIFI, Non-specific SRD, NFC and GPS
Brand Name / Model Name	SUNMI / T6800

The radio equipment meets the following essential requirements

Article 3.1 a): Health and Safety	**Conform**
Article 3.1 b): Electromagnetic Compatibility	**Conform**
Article 3.2: Effective and Efficient Use of Radio Spectrum	**Conform**
Additional Essential Requirements:	**Not applicable**

Date of issue	**2018-06-29**	Expiry date:	**2023-06-28**

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached annex are complied with. The conditions for the validity of this certificate are listed in the Annex.

The attached Annex forms part of this certificate. This certificate consists of 5 pages.

Seal

Signed by Wayne Hsu
Notified Body

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Annex

Technical description

Frequency Range	GSM 900/1800 MHz UTRA FDD Band I/VIII E-UTRA FDD Band 1/3/7/20 E-UTRA FDD Band 38/40 Bluetooth: 2402 - 2480 MHz 2.4G WiFi(HT20): 2412 - 2472 MHz 2.4G WiFi(HT40): 2422 - 2462 MHz 5G WiFi(H20): 5180 - 5240 MHz 5G WiFi(H40): 5190 - 5230 MHz Non-specific SRD: 5745 - 5825 MHz NFC:13.56 MHz GPS: 1575.42 MHz(Rx)
Transmit Power	Max. 2W/Max. 1W UTRA FDD: 24 dBm E-UTRA FDD/TDD: 23 dBm Bluetooth: 9.79 dBm EIRP 2.4G WiFi: 16.88 dBm EIRP 5G WiFi: 14.50 dBm EIRP Non-Specific SRD: 9.55 dBm EIRP NFC: 13.414 dBµA/m at 10m
Hardware Version	A596b
Software Version	ZQP1168_V010_180308

System Components

Battery	ZQP1168, 3.8V/3000mAh

Optional Components

Adapter 1	TPA-46050100VU Input:100 - 240V, 50/60Hz, 0.15A; Output: 5V/1A (Shenzhen TianYin Electronics Co.,Ltd.)
Adapter 2	TPA-05A050100BU01 Input:100 - 240V, 50/60Hz, 0.15A; Output: 5V/1A (Shenzhen TianYin Electronics Co.,Ltd.)
USB Cable	L37B-051000100

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Approval documentation

External / Internal Photos	Provided, 5 pages / 9 pages
User Manual	Product Description, 2 pages
Block Diagram	Provided, 1 page
Circuit Diagram	Provided, 38 pages
Operational Description	OPERATIONAL DESCRIPTION, 2 pages
PCB Layout	Provided, 8 pages/ 1 page/ 4 pages
Parts Placement	Provided, 2 pages/ 1 page/ 1 page
Parts List	Provided, 6 pages
EU Declaration of Conformity	2 pages, June 22, 2018
Explanation of compliance Article 10(2) and Article 10(10)	Description in the User Manual
Further Documents	Risk Assessment, 1 page, June 21, 2018

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Applied Standards and Test Reports

Specification	**Laboratory**	**Test Report Number / Version**
EN 60950-1:2006+A11:2009+ A1:2010+A12:2011+A2:2013	East China Institute of Telecommunications	I18D00072-SAF01 Rev.01
EN 62471:2008	Centre Testing International Group Co., Ltd.	EED31K000449
EN 50566:2017 EN 62209-2:2010 EN 50663:2017 EN 62479:2010	Shenzhen BALUN Technology Co.,Ltd.	BL-SZ1840341-701 Rev.03
EN 50566:2017 EN 62209-2:2010 EN 50663:2017	East China Institute of Telecommunications	I18D00072-SAR01 Rev.01
Draft ETSI EN 301 489-1 V2.2.0 Final draft ETSI EN 301 489-3 V2.1.1 Draft ETSI EN 301 489-17 V3.2.0 Draft ETSI EN 301 489-19 V2.1.0 Draft ETSI EN 301 489-52 V1.1.0 EN 55032: 2015 EN 55035: 2017	East China Institute of Telecommunications	I18D00072-EMC01
ETSI EN 301 511 V12.5.1	East China Institute of Telecommunications	I18D00072-RFA01 Rev.01
ETSI EN 301 908-1 V11.1.1 ETSI EN 301 908-2 V11.1.2	East China Institute of Telecommunications	I18D00072-RFA02 Rev.01
ETSI EN 301 908-1 V11.1.1 ETSI EN 301 908-13 V11.1.2	East China Institute of Telecommunications	I18D00072-RFA03
ETSI EN 300 328 V2.1.1	East China Institute of Telecommunications	I18D00072-SRD01 Rev.01 I18D00072-SRD02 Rev.01 I18D00072-SRD03 Rev.01
ETSI EN 301 893 V2.1.1	Shenzhen BALUN Technology Co.,Ltd.	BL-SZ1840341-601 Rev.02
ETSI EN 300 330 V2.1.1	East China Institute of Telecommunications	I18D00072-EMC04 Rev.02
Final draft ETSI EN 300 440 V2.2.1	Shenzhen BALUN Technology Co.,Ltd.	BL-SZ1840341-602 Rev.03
ETSI EN 303 413 V1.1.1	East China Institute of Telecommunications	I18D00072-SRD04

Limitations / Restrictions

- Operating Temperature range is 0 - +40 degree Celsius.
- Body SAR Separation distance is 5mm.

Notes

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