



CERTIFICATE *of* EXAMINATION

NOTIFIED BODY EU-TYPE EXAMINATION CERTIFICATE

NTEK1122 / 30 Nov 2020 / Rev A

Radio Equipment Directive (RED) 2014/53/EU

MiCOM Labs Inc., Notified Body Number 2280 declares, on the basis of the assessment of the tests and the technical documentation provided by the applicant that the following product complies with the essential requirements of the above noted Directive.

Product Name:
HolaBot

Approval Holder Name:
SHENZHEN PUDU TECHNOLOGY CO., LTD.



Gordon Hurst, Product Certifier

This Certificate is Issued under the Authority of:
MiCOM Labs Inc., 575 Boulder Court, Pleasanton, California 94566, USA
Notified Body Number: 2280

Product Name:

HolaBotProduct Model Numbers: **HL100, HL101, HL110**Brand Name: **Pudu**

Approval Holder: SHENZHEN PUDU TECHNOLOGY CO., LTD., Room 301, Wearnes Science and Technology Mansion, No.10, Kefa Road, Yuehai Street, Nanshan District, Shenzhen, Guangdong, China 518057

Product Manufacturer: SHENZHEN PUDU TECHNOLOGY CO., LTD., Room 301, Wearnes Science and Technology Mansion, No.10, Kefa Road, Yuehai Street, Nanshan District, Shenzhen, Guangdong, China 518057

Standards

Group	Name
Article 3.1(a) Health & Safety	EN 62311:2008
	EN 62368-1:2014+A11:2017
Article 3.1(b) Electromagnetic Compatibility	EN 301 489-1 V2.2.3
	EN 301 489-3 V2.1.1
	EN 301 489-17 V3.2.4
	EN 55032:2015
	EN 55035:2017
	EN 61000-3-2:2014
	EN 61000-3-3:2013
Article 3.2 Effective Use of Spectrum	EN 300 328 V2.2.2
	EN 301 893 V2.1.1
	EN 300 440 V2.2.1
	EN 300 220-1 V3.1.1
	EN 300 220-2 V3.2.1

Annex 1 to EU-Type Examination

**EU-Type examination on the essential requirements
Article 3**

Article 3.1 - a) Health and Safety	Assessed
Article 3.1 - b) Electromagnetic compatibility	Assessed
Article 3.2 - Effective use of radio spectrum	Assessed
Article 3.3 - a) interworks with Accessories/Chargers	Not Applicable
Article 3.3 - b) interworks with Radio Networks	Not Applicable
Article 3.3 - c) can connect to interfaces	Not Applicable
Article 3.3 - d) does not harm the network, misuse network resources	Not Applicable
Article 3.3 - e) privacy protections	Not Applicable
Article 3.3 - f) fraud protections	Not Applicable
Article 3.3 - g) emergency services access	Not Applicable
Article 3.3 - h) assist users with disabilities	Not Applicable
Article 3.3 - i) integrity of software	Not Applicable

Description of Apparatus

Company Name	SHENZHEN PUDU TECHNOLOGY CO., LTD.
Certification No.	NTEK1122
Issue Date / Rev	30 Nov 2020 / Rev A
Equipment Description	HolaBot
Hardware Version	V3.0
Firmware Version	V5.0.0.xx

Emission Information

Technology	Frequency		Emission Designator	RF Power		Field Strength
	From	To		Max.	Type	
Bluetooth LE	2402	2480		6.09dBm	EIRP	--
Bluetooth BDR +EDR	2402	2480		8.88dBm	EIRP	--
WLAN 802.11b/g/n20	2412	2472		17.38dBm	EIRP	--
WLAN 802.11n40	2422	2462		17.13dBm	EIRP	--
RLAN 802.11a/ac20/n20	5180	5240		13.88dBm	EIRP	--

Technology	Frequency		Emission Designator	RF Power		
	From	To		Max.	Type	Field Strength
	RLAN 802.11ac40/n40	5190		5230	13.59dBm	EIRP
RLAN 802.11ac80	5210	5210	13.26dBm	EIRP	--	
RLAN 802.11a/ac20/n20	5260	5320	13.69dBm	EIRP	--	
RLAN 802.11ac40/n40	5270	5310	13.8dBm	EIRP	--	
RLAN 802.11ac80	5290	5290	13.59dBm	EIRP	--	
RLAN 802.11a/ac20/n20	5500	5700	13.99dBm	EIRP	--	
RLAN 802.11ac40/n40	5510	5670	13.56dBm	EIRP	--	
RLAN 802.11ac80	5530	5610	13.88dBm	EIRP	--	
SRD 802.11a/ac20/n20	5745	5825	13.20dBm	EIRP	--	
SRD 802.11ac40/n40	5755	5795	12.91dBm	EIRP	--	
SRD 802.11ac80	5775	5775	12.52dBm	EIRP	--	
SRD Lora	863	870	10.5dBm	ERP	--	

Technical Construction File Details: (Documents Reviewed)

Technical Report(s):

Article 3.1(a) Health & Safety:

S20082600601001

S20082600603001

SA2007268L 02001

Article 3.1(b) Electromagnetic Compatibility:

S20082600601008

Article 3.2 Effective Use of Spectrum:

S20082600601002

S20082600601003

S20082600601004

S20082600601005

S20082600601006

S20082600601007

Supporting Documentation:

Service Agreement

Agent Authorization

EU Application

EU Declaration of Conformity

Family Model Declaration Letter

Label Without Importer Declaration Letter

Block Diagram

BOM & Parts Placement

External Photographs

Internal Photographs

Label and its Location

Operational Description

PCB Layout

Schematics

User Manual

Risk Assessment Report

Battery Report

Scope

This EU-Type Examination Certificate is given in respect of compliance of radio spectrum use Article 3 Paragraph 2 of the RED Directive 2014/53/EU. The scope of the evaluation and this certificate relates only to those items identified in 'Annex 1 to EU - Type Examination Certificate' for the specific product and Certificate number referenced above.

EU Type Examination was performed according to Module B: EU-type examination procedure per Annex III the Directive on the essential requirements in Article 3, for the specific product and Certificate Number referenced above.

This EU Type Examination Certificate is based upon the review of the Technical Documentation and supporting evidence for the adequacy of the technical design solution, it is only valid in conjunction with the attached Annexes. The scope of this statement relates to a single sample of the apparatus identified above and of the submitted documents only.

Annex 2 to EU-Type Examination Obligations of the Applicant

Ref RED 2014/53/EU Article 10 - Obligations of manufacturers

1. When placing their radio equipment on the market, manufacturers shall ensure that it has been designed and manufactured in accordance with the essential requirements set out in Article 3.
2. Manufacturers shall ensure that radio equipment shall be so constructed that it can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.
3. Manufacturers shall draw up the technical documentation referred to in Article 21 and carry out the relevant conformity assessment procedure referred to in Article 17 or have it carried out. Where compliance of radio equipment with the applicable requirements has been demonstrated by that conformity assessment procedure, manufacturers shall draw up an EU declaration of conformity and affix the CE marking.
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.
5. Manufacturers shall ensure that procedures are in place for series production to remain in conformity with this Directive. Changes in radio equipment design or characteristics and changes in the harmonised standards or in other technical specifications by reference to which conformity of radio equipment is declared shall be adequately taken into account.

When deemed appropriate with regard to the risks presented by radio equipment, manufacturers shall, to protect the health and safety of end-users, carry out sample testing of radio equipment made available on the market, investigate, and, if necessary, keep a register of complaints, of non-conforming radio equipment and radio equipment recalls, and shall keep distributors informed of any such monitoring.

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.
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.
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.

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.
10. In cases of restrictions on putting into service or of requirements for authorisation 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 authorisation of use exist. Such information shall be completed in the instructions accompanying the radio equipment. The Commission may adopt implementing acts specifying how to present that information. Those implementing acts shall be adopted in accordance with the advisory procedure referred to in Article 45(2).

11. Manufacturers who consider or have reason to believe that radio equipment which they have placed on the market is not in conformity with this Directive shall immediately take the corrective measures necessary to bring that radio equipment into conformity, to withdraw it or recall it, if appropriate. Furthermore, where the radio equipment presents a risk, manufacturers shall immediately inform the competent national authorities of the Member States in which they made the radio equipment available on the market to that effect, giving details, in particular, of the noncompliance, of any corrective measures taken and of the results thereof.

12. Manufacturers shall, further to a reasoned request from a competent national authority, provide it with all the information and documentation in paper or electronic form necessary to demonstrate the conformity of the radio equipment with this Directive, in a language which can be easily understood by that authority. They shall cooperate with that authority, at its request, on any action taken to eliminate the risks posed by radio equipment which they have placed on the market.

Ref RED 2014/53/EU Article 11 - Authorised representatives

1. A manufacturer may, by a written mandate, appoint an authorised representative.

The obligations laid down in Article 10(1) and the obligation to draw up technical documentation laid down in Article 10(3) shall not form part of the authorised representative's mandate.

2. An authorised representative shall perform the tasks specified in the mandate received from the manufacturer. The mandate shall allow the authorised representative to do at least the following:

(a) keep the EU declaration of conformity and the technical documentation at the disposal of national market surveillance authorities for 10 years after the radio equipment has been placed on the market;

(b) further to a reasoned request from a competent national authority, provide that authority with all the information and documentation necessary to demonstrate the conformity of radio equipment;

(c) co-operate with the competent national authorities, at their request, on any action taken to eliminate the risks posed

Article 19 General principles of the CE marking

1. The CE marking shall be subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008.

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.

Article 20 Rules and conditions for affixing the CE marking and the identification number of the notified body

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.

2. The CE marking shall be affixed before the radio equipment is placed on the market.

3. Member States shall build upon existing mechanisms to ensure correct application of the regime governing the CE marking and shall take appropriate action in the event of improper use of that marking.



CERTIFICATE *of* EXAMINATION

NOTIFIED BODY EU-TYPE EXAMINATION CERTIFICATE

NTEK1344-EU / 22 Jul 2021 / Rev A

Radio Equipment Directive (RED) 2014/53/EU

MiCOM Labs Inc., Notified Body Number 2280 declares, on the basis of the assessment of the tests and the technical documentation provided by the applicant that the following product complies with the essential requirements of the above noted Directive.

Product Name:
KettyBot

Approval Holder Name:
SHENZHEN PUDU TECHNOLOGY CO., LTD.



Gordon Hurst, Product Certifier

This Certificate is Issued under the Authority of:
MiCOM Labs Inc., 575 Boulder Court, Pleasanton, California 94566, USA
Notified Body Number: 2280

Product Name:

KettyBotProduct Model Numbers: **PNT**Brand Name: **PUDU**

Approval Holder: SHENZHEN PUDU TECHNOLOGY CO., LTD., Room 501, Building A, Block 1, Phase 1, Shenzhen International Inno Valley, Dashi 1st Road, Nanshan District, Shenzhen, China 518057

Product Manufacturer: SHENZHEN PUDU TECHNOLOGY CO., LTD., Room 501, Building A, Block 1, Phase 1, Shenzhen International Inno Valley, Dashi 1st Road, Nanshan District, Shenzhen, China 518057

Standards

Group	Name
Article 3.1(a) Health & Safety	EN 62311:2008
	EN 62368-1:2014+A11:2017
Article 3.1(b) Electromagnetic Compatibility	EN 301 489-1 V2.2.3
	EN 301 489-3 V2.1.1
	EN 301 489-17 V3.2.4
	(Draft) EN 301 489-52 V1.1.2
	EN 55032:2015+A11:2020
	EN 55035:2017+A11:2020
	EN 61000-3-2:2014
	EN 61000-3-3:2013+A1:2019
Article 3.2 Effective Use of Spectrum	EN 300 328 V2.2.2
	EN 301 893 V2.1.1
	EN 300 440 V2.2.1
	EN 301 908-1 V13.1.1
	EN 301 908-2 V13.1.1
	EN 301 908-13 V13.1.1

Annex 1 to EU-Type Examination

**EU-Type examination on the essential requirements
Article 3**

Article 3.1 - a) Health and Safety	Assessed
Article 3.1 - b) Electromagnetic compatibility	Assessed
Article 3.2 - Effective use of radio spectrum	Assessed
Article 3.3 - a) interworks with Accessories/Chargers	Not Assessed
Article 3.3 - b) interworks with Radio Networks	Not Assessed
Article 3.3 - c) can connect to interfaces	Not Assessed
Article 3.3 - d) does not harm the network, misuse network resources	Not Assessed
Article 3.3 - e) privacy protections	Not Assessed
Article 3.3 - f) fraud protections	Not Assessed
Article 3.3 - g) emergency services access	Not Assessed
Article 3.3 - h) assist users with disabilities	Not Assessed
Article 3.3 - i) integrity of software	Not Assessed

Description of Apparatus

Company Name	SHENZHEN PUDU TECHNOLOGY CO., LTD.
Certification No.	NTEK1344-EU
Issue Date / Rev	22 Jul 2021 / Rev A
Equipment Description	KettyBot
Hardware Version	B00
Firmware Version	9.1.0.6

Emission Information

Technology	Frequency MHz		Emission Designator	RF Power		
	From	To		Max	Type	Field Strength
WLAN	2412	2472	G1D,D1D	17.48dBm	EIRP	--
RLAN	5180	5700	D1D	13.35dBm	EIRP	--
5.8G SRD	5745	5825	D1D	13.85dBm	EIRP	--
Bluetooth LE	2402	2480	F1D	5.96dBm	EIRP	--
Bluetooth BDR+EDR	2402	2480	F1D,G1D	8.49dBm	EIRP	--
UTRA Band 1	1920	1980	F9W	23.56dBm	Conducted	--
UTRA Band 8	880	915	F9W	23.43dBm	Conducted	--
E-UTRA Band 1	1920	1980	G7D,W7D	23.49dBm	Conducted	--
E-UTRA Band 3	1710	1785	G7D,W7D	23.96dBm	Conducted	--
E-UTRA Band 7	2500	2570	G7D,W7D	24.33dBm	Conducted	--
E-UTRA Band 8	880	915	G7D,W7D	23.45dBm	Conducted	--
E-UTRA Band 20	832	862	G7D,W7D	23.36dBm	Conducted	--
E-UTRA Band 28	703	748	G7D,W7D	23.81dBm	Conducted	--
E-UTRA Band 34	2010	2025	G7D,W7D	23.32dBm	Conducted	--
E-UTRA Band 38	2570	2620	G7D,W7D	24.76dBm	Conducted	--
E-UTRA Band 40	2300	2400	G7D,W7D	23.25dBm	Conducted	--

Technical Construction File Details: (Documents Reviewed)

Technical Report(s):

Article 3.1(a) Health & Safety:
 S21060901203008
 S21060901204001
 Article 3.1(b) Electromagnetic Compatibility:
 S21060901202001
 Article 3.2 Effective Use of Spectrum:
 S21060901203001
 S21060901203002
 S21060901203003
 S21060901203004
 S21060901203005
 S21060901203006
 S21060901203007

Supporting Documentation:

Service Agreement
 Agent Authorization
 EU Application
 EU Declaration of Conformity
 Block Diagram
 BOM or Parts List
 External Photographs
 Internal Photographs
 Label and its Location
 Operational Description
 PCB Layout
 Schematics
 Test Setup - EU
 User Manual
 SA2007268L02001
 label without importer declaration letter
 RiskAssessmentaccording

Scope

This EU-Type Examination Certificate is given in respect of compliance of radio spectrum use Article 3 Paragraph 2 of the RED Directive 2014/53/EU. The scope of the evaluation and this certificate relates only to those items identified in 'Annex 1 to EU - Type Examination Certificate' for the specific product and Certificate number referenced above.

EU Type Examination was performed according to Module B: EU-type examination procedure per Annex III the Directive on the essential requirements in Article 3, for the specific product and Certificate Number referenced above.

This EU Type Examination Certificate is based upon the review of the Technical Documentation and supporting evidence for the adequacy of the technical design solution, it is only valid in conjunction with the attached Annexes. The scope of this statement relates to a single sample of the apparatus identified above and of the submitted documents only.

Annex 2 to EU-Type Examination Obligations of the Applicant

Ref RED 2014/53/EU Article 10 - Obligations of manufacturers

1. When placing their radio equipment on the market, manufacturers shall ensure that it has been designed and manufactured in accordance with the essential requirements set out in Article 3.
2. Manufacturers shall ensure that radio equipment shall be so constructed that it can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.
3. Manufacturers shall draw up the technical documentation referred to in Article 21 and carry out the relevant conformity assessment procedure referred to in Article 17 or have it carried out. Where compliance of radio equipment with the applicable requirements has been demonstrated by that conformity assessment procedure, manufacturers shall draw up an EU declaration of conformity and affix the CE marking.
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.
5. Manufacturers shall ensure that procedures are in place for series production to remain in conformity with this Directive. Changes in radio equipment design or characteristics and changes in the harmonised standards or in other technical specifications by reference to which conformity of radio equipment is declared shall be adequately taken into account.

When deemed appropriate with regard to the risks presented by radio equipment, manufacturers shall, to protect the health and safety of end-users, carry out sample testing of radio equipment made available on the market, investigate, and, if necessary, keep a register of complaints, of non-conforming radio equipment and radio equipment recalls, and shall keep distributors informed of any such monitoring.

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.
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.
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.

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.
10. In cases of restrictions on putting into service or of requirements for authorisation 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 authorisation of use exist. Such information shall be completed in the instructions accompanying the radio equipment. The Commission may adopt implementing acts specifying how to present that information. Those implementing acts shall be adopted in accordance with the advisory procedure referred to in Article 45(2).

11. Manufacturers who consider or have reason to believe that radio equipment which they have placed on the market is not in conformity with this Directive shall immediately take the corrective measures necessary to bring that radio equipment into conformity, to withdraw it or recall it, if appropriate. Furthermore, where the radio equipment presents a risk, manufacturers shall immediately inform the competent national authorities of the Member States in which they made the radio equipment available on the market to that effect, giving details, in particular, of the noncompliance, of any corrective measures taken and of the results thereof.

12. Manufacturers shall, further to a reasoned request from a competent national authority, provide it with all the information and documentation in paper or electronic form necessary to demonstrate the conformity of the radio equipment with this Directive, in a language which can be easily understood by that authority. They shall cooperate with that authority, at its request, on any action taken to eliminate the risks posed by radio equipment which they have placed on the market.

Ref RED 2014/53/EU Article 11 - Authorised representatives

1. A manufacturer may, by a written mandate, appoint an authorised representative.

The obligations laid down in Article 10(1) and the obligation to draw up technical documentation laid down in Article 10(3) shall not form part of the authorised representative's mandate.

2. An authorised representative shall perform the tasks specified in the mandate received from the manufacturer. The mandate shall allow the authorised representative to do at least the following:

(a) keep the EU declaration of conformity and the technical documentation at the disposal of national market surveillance authorities for 10 years after the radio equipment has been placed on the market;

(b) further to a reasoned request from a competent national authority, provide that authority with all the information and documentation necessary to demonstrate the conformity of radio equipment;

(c) co-operate with the competent national authorities, at their request, on any action taken to eliminate the risks posed

Article 19 General principles of the CE marking

1. The CE marking shall be subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008.

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.

Article 20 Rules and conditions for affixing the CE marking and the identification number of the notified body

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.

2. The CE marking shall be affixed before the radio equipment is placed on the market.

3. Member States shall build upon existing mechanisms to ensure correct application of the regime governing the CE marking and shall take appropriate action in the event of improper use of that marking.



CERTIFICATE *of* EXAMINATION

NOTIFIED BODY EU-TYPE EXAMINATION CERTIFICATE

SHES436-EU / 27 Sep 2021 / Rev A

Radio Equipment Directive (RED) 2014/53/EU

MiCOM Labs Inc., Notified Body Number 2280 declares, on the basis of the assessment of the tests and the technical documentation provided by the applicant that the following product complies with the essential requirements of the above noted Directive.

Product Name:
FlashBot

Approval Holder Name:
SHENZHEN PUDU TECHNOLOGY CO., LTD.



Gordon Hurst, Product Certifier

This Certificate is Issued under the Authority of:
MiCOM Labs Inc., 575 Boulder Court, Pleasanton, California 94566, USA
Notified Body Number: 2280

Product Name:

FlashBotProduct Model Numbers: **FBBDR1**Brand Name: **PUDU**

Approval Holder: SHENZHEN PUDU TECHNOLOGY CO., LTD., Room 501, Building A, Block 1, Phase 1, Shenzhen International Inno Valley, Dashi 1st Road, Nanshan District, Shenzhen, China

Product Manufacturer: SHENZHEN PUDU TECHNOLOGY CO., LTD., Room 501, Building A, Block 1, Phase 1, Shenzhen International Inno Valley, Dashi 1st Road, Nanshan District, Shenzhen, China

Standards

Group	Name
Article 3.1(a) Health & Safety	EN 62368-1:2014/A11:2017
	EN 50665: 2017
Article 3.1(b) Electromagnetic Compatibility	EN 301 489-1 V2.2.3
	EN 301 489-3 V2.1.1
	EN 301 489-17 V3.2.4
	Draft EN 301 489-52 V1.1.2
	EN 55032:2015/A11:2020
	EN IEC 61000-3-2:2019
	EN 61000-3-3:2013+A1:2019
	EN 55035:2017/A11:2020
Article 3.2 Effective Use of Spectrum	EN 301 908-1 V13.1.1
	EN 301 908-2 V13.1.1
	EN 301 908-13 V13.1.1
	EN 300 328 V2.2.2
	EN 301 893 V2.1.1
	EN 300 440 V2.2.1
	EN 300 220-1 V3.1.1
	EN 300 220-2 V3.2.1

Annex 1 to EU-Type Examination

EU-Type examination on the essential requirements
Article 3

Article 3.1 - a) Health and Safety	Assessed
Article 3.1 - b) Electromagnetic compatibility	Assessed
Article 3.2 - Effective use of radio spectrum	Assessed
Article 3.3 - a) interworks with Accessories/Chargers	Not Applicable
Article 3.3 - b) interworks with Radio Networks	Not Applicable
Article 3.3 - c) can connect to interfaces	Not Applicable
Article 3.3 - d) does not harm the network, misuse network resources	Not Applicable
Article 3.3 - e) privacy protections	Not Applicable
Article 3.3 - f) fraud protections	Not Applicable
Article 3.3 - g) emergency services access	Not Applicable
Article 3.3 - h) assist users with disabilities	Not Applicable
Article 3.3 - i) integrity of software	Not Applicable

Description of Apparatus

Company Name	SHENZHEN PUDU TECHNOLOGY CO., LTD.
Certification No.	SHES436-EU
Issue Date / Rev	27 Sep 2021 / Rev A
Equipment Description	FlashBot
Hardware Version	V3
Firmware Version	V8.1.0.12

Emission Information

Technology	Frequency MHz		Emission Designator	RF Power		Field Strength
	From	To		Max	Type	
Lora	864	868.8		9.0dBm	ERP	--
Bluetooth	2402	2480		8.33dBm	EIRP	--
Bluetooth LE	2402	2480		7.33dBm	EIRP	--
WLAN	2412	2472		19.09dBm	EIRP	--
RLAN	5180	5700		17.44dBm	EIRP	--
SRD	5745	5825		13.95dBm	EIRP	--
WCDMA Band I	1920	1980		24.71dBm	Conducted	--
WCDMA Band VIII	880	915		24.12dBm	Conducted	--
LTE Band 1	1920	1980		24.41dBm	Conducted	--
LTE Band 3	1710	1785		24.88dBm	Conducted	--
LTE Band 7	2500	2570		24.45dBm	Conducted	--
LTE Band 8	880	915		24.09dBm	Conducted	--
LTE Band 20	832	862		23.76dBm	Conducted	--
LTE Band 28	703	748		24.10dBm	Conducted	--
LTE Band 34	2010	2025		23.32dBm	Conducted	--
LTE Band 38	2570	2620		24.47dBm	Conducted	--
LTE Band 40	2300	2400		23.55dBm	Conducted	--

Technical Construction File Details: (Documents Reviewed)

Technical Report(s):

Article 3.1(a) Health & Safety:
 STS2108163H01
 STS2108163A03
 Article 3.1(b) Electromagnetic Compatibility:
 STS2108163E01
 STS2108163E02
 Article 3.2 Effective Use of Spectrum:
 STS2108163W09
 STS2108163W10
 STS2108163W11
 STS2108163W12
 STS2108163W13
 STS2108163W14
 STS2108163W15
 STS2108163W16
 STS2108163W17
 STS2108163W18
 STS2108163W19

Supporting Documentation:

Service Agreement
 Agent Authorization
 EU Application
 EU Declaration of Conformity
 Block Diagram
 BOM or Parts List
 External Photographs
 Internal Photographs
 Label and its Location
 Operational Description
 PCB Layout
 Schematics
 Test Setup - EU
 User Manual
 Risk Assessment

Scope

This EU-Type Examination Certificate is given in respect of compliance of radio spectrum use Article 3 Paragraph 2 of the RED Directive 2014/53/EU. The scope of the evaluation and this certificate relates only to those items identified in 'Annex 1 to EU - Type Examination Certificate' for the specific product and Certificate number referenced above.

EU Type Examination was performed according to Module B: EU-type examination procedure per Annex III the Directive on the essential requirements in Article 3, for the specific product and Certificate Number referenced above.

This EU Type Examination Certificate is based upon the review of the Technical Documentation and supporting evidence for the adequacy of the technical design solution, it is only valid in conjunction with the attached Annexes. The scope of this statement relates to a single sample of the apparatus identified above and of the submitted documents only.

Annex 2 to EU-Type Examination Obligations of the Applicant

Ref RED 2014/53/EU Article 10 - Obligations of manufacturers

1. When placing their radio equipment on the market, manufacturers shall ensure that it has been designed and manufactured in accordance with the essential requirements set out in Article 3.
2. Manufacturers shall ensure that radio equipment shall be so constructed that it can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.
3. Manufacturers shall draw up the technical documentation referred to in Article 21 and carry out the relevant conformity assessment procedure referred to in Article 17 or have it carried out. Where compliance of radio equipment with the applicable requirements has been demonstrated by that conformity assessment procedure, manufacturers shall draw up an EU declaration of conformity and affix the CE marking.
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.
5. Manufacturers shall ensure that procedures are in place for series production to remain in conformity with this Directive. Changes in radio equipment design or characteristics and changes in the harmonised standards or in other technical specifications by reference to which conformity of radio equipment is declared shall be adequately taken into account.

When deemed appropriate with regard to the risks presented by radio equipment, manufacturers shall, to protect the health and safety of end-users, carry out sample testing of radio equipment made available on the market, investigate, and, if necessary, keep a register of complaints, of non-conforming radio equipment and radio equipment recalls, and shall keep distributors informed of any such monitoring.

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.
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.
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.

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.
10. In cases of restrictions on putting into service or of requirements for authorisation 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 authorisation of use exist. Such information shall be completed in the instructions accompanying the radio equipment. The Commission may adopt implementing acts specifying how to present that information. Those implementing acts shall be adopted in accordance with the advisory procedure referred to in Article 45(2).

11. Manufacturers who consider or have reason to believe that radio equipment which they have placed on the market is not in conformity with this Directive shall immediately take the corrective measures necessary to bring that radio equipment into conformity, to withdraw it or recall it, if appropriate. Furthermore, where the radio equipment presents a risk, manufacturers shall immediately inform the competent national authorities of the Member States in which they made the radio equipment available on the market to that effect, giving details, in particular, of the noncompliance, of any corrective measures taken and of the results thereof.

12. Manufacturers shall, further to a reasoned request from a competent national authority, provide it with all the information and documentation in paper or electronic form necessary to demonstrate the conformity of the radio equipment with this Directive, in a language which can be easily understood by that authority. They shall cooperate with that authority, at its request, on any action taken to eliminate the risks posed by radio equipment which they have placed on the market.

Ref RED 2014/53/EU Article 11 - Authorised representatives

1. A manufacturer may, by a written mandate, appoint an authorised representative.

The obligations laid down in Article 10(1) and the obligation to draw up technical documentation laid down in Article 10(3) shall not form part of the authorised representative's mandate.

2. An authorised representative shall perform the tasks specified in the mandate received from the manufacturer. The mandate shall allow the authorised representative to do at least the following:

(a) keep the EU declaration of conformity and the technical documentation at the disposal of national market surveillance authorities for 10 years after the radio equipment has been placed on the market;

(b) further to a reasoned request from a competent national authority, provide that authority with all the information and documentation necessary to demonstrate the conformity of radio equipment;

(c) co-operate with the competent national authorities, at their request, on any action taken to eliminate the risks posed

Article 19 General principles of the CE marking

1. The CE marking shall be subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008.

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.

Article 20 Rules and conditions for affixing the CE marking and the identification number of the notified body

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.

2. The CE marking shall be affixed before the radio equipment is placed on the market.

3. Member States shall build upon existing mechanisms to ensure correct application of the regime governing the CE marking and shall take appropriate action in the event of improper use of that marking.