

EU-TYPE EXAMINATION (MODULE B) CERTIFICATE

Radio Equipment Directive (RED) 2014/53/EU

PHOENIX TESTLAB
Notified Body Number **0700**



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.	23-210156 - 23-220156
Manufacturer	Shenzhen Huaptec Co., Ltd
Address	3rd FL, E BLDG, Sogood Science Park, SanWei community, Hangcheng Street, Bao'an District, Shenzhen, China
Product Description	Mobile signal repeater; with GSM, WCDMA, LTE, 5G NR sub 6 GHz, Bluetooth and WiFi
Brand Name / Model Name	HiBoost / Hi23-6S-Plus, Hi23-5S-Plus, Hi23-3S-Plus, Hi20-6S-Plus, Hi20-5S-Plus, Hi20-3S-Plus, Hi17-5S-Plus, Hi17-6S-Plus

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	2023-03-03	Expiry date:	2028-03-02
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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.

Signed by Wayne Hsu
Notified Body

Annex

Technical description

Frequency Range	GSM 900/1800 Uplink: 880 - 915 MHz/1710 - 1785 MHz Downlink: 925 - 960 MHz/1805 - 1880 MHz UTRA FDD Band I/VIII Uplink: 1920 - 1980 MHz/880 - 915 MHz Downlink: 2110 - 2170 MHz/925 - 960 MHz E-UTRA FDD Band 1/3/7/8/20/28 Uplink: 1920 - 1980 MHz/1710 - 1785 MHz/2500 - 2570 MHz/ 880 - 915 MHz/832 - 862 MHz/703 - 733 MHz Downlink: 2110 - 2170 MHz/1805 - 1880MHz/2620 - 2690 MHz/ 925 - 960 MHz/791 - 821 MHz/758 -788 MHz 5G NR n28 Uplink: 703 - 733 MHz;Downlink:758 - 788 MHz Bluetooth: 2402 - 2480 MHz WiFi (20MHz): 2412 - 2472 MHz WiFi (40MHz): 2422 - 2462 MHz
Transmit Power	Models Hi23-6S-Plus, Hi23-5S-Plus, Hi23-3S-Plus: Uplink: 20 dBm (Max.); Downlink: 23 dBm (Max.) Models Hi20-6S-Plus, Hi20-5S-Plus, Hi20-3S-Plus: Uplink: 17 dBm (Max.); Downlink: 20 dBm (Max.) Hi17-5S-Plus,Hi17-6S-Plus: Uplink: 17 dBm (Max.); Downlink: 17 dBm (Max.) Bluetooth: 6.98 dBm EIRP WiFi: 19.06 dBm EIRP
Hardware Version	F23H1-6S-V01
Software Version	HI23-6S-V01_v2.5.3



System Components

Whip Antenna Typical Antenna Gain, 2.0 dBi

Optional Components

Adapter GM95-120700-F
Input: 100-240 Vac, 50/60 Hz, 2.5A; Output: DC 12V/7A
(Foshan Shunde Guanyuda Power Supply Co Ltd.)

Power Cord European Standard Plug, 1.8m

Outdoor Logarithm Cycle Antenna 698 - 960MHz, 8dBi; 1710 - 2700MHz 9 dBi

Indoor Panel Antenna 698 - 960MHz, 6.5 dBi
1710- 2700MHz, 8.5 dBi

Approval documentation

Technical Documentation including HiBoost_Hi23-6S-Plus
External / Internal Photos, User Manual, Label, Block Diagram,
Circuit Diagram, Operational Description, PCB Layout, Parts
Placement, Parts List

EU Declaration of Conformity 3 pages, February 23, 2023

Explanation of compliance
Article 10(2) and Article 10(10) Description in the User Manual

Further Documents Risk assessment, 7 pages, February 22, 2023
Product Similarity Declaration, 1 page, February 9, 2023
Radio Module Certificate No. B20061514, issued by BACL,
1 Page



Applied Standards and Test Reports

Specification	Laboratory	Test Report Number / Version
EN IEC 62368-1: 2020+A11:2020	Bay Area Compliance Laboratories Corp. (Shenzhen)	SZ1221107-51898E-SF
EN 50385: 2017	Bay Area Compliance Laboratories Corp. (Shenzhen)	SZ1221107-51898E
ETSI EN 301 489-1 V2.2.3 Draft ETSI EN 301 489-17 V3.2.5 ETSI EN 301 489-50 V2.3.1	Bay Area Compliance Laboratories Corp. (Shenzhen)	SZ1221107-51898E-EM-02
EN 55032:2015+A1:2020 EN 55035:2017+A11:2020 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A2:2021	Bay Area Compliance Laboratories Corp. (Shenzhen)	SZ1221107-51898E-EM-01
ETSI EN 303 609 V12.5.1	Bay Area Compliance Laboratories Corp. (Shenzhen)	SZ1221107-51898E-RF-22A
ETSI EN 301 908-1 V15.1.1 ETSI EN 301 908-11 V11.1.2	Bay Area Compliance Laboratories Corp. (Shenzhen)	SZ1221107-51898E-RF-22B
ETSI EN 301 908-1 V15.1.1 ETSI EN 301 908-15 V15.1.1	Bay Area Compliance Laboratories Corp. (Shenzhen)	SZ1221107-51898E-RF-22C
ETSI EN 301 908-1 V15.1.1 ETSI TS 138 106 V17.01.00	Bay Area Compliance Laboratories Corp. (Shenzhen)	SZ1221107-51898E-RF-22D
ETSI EN 300 328 V2.2.2	Bay Area Compliance Laboratories Corp. (Shenzhen)	SZ1221107-51898E-RF-22E SZ1221107-51898E-RF-22F SZ1221107-51898E-RF-22G

Limitations / Restrictions

- The user shall be informed by the person placing the product onto the market if an individual licence may be required for using in EC member states.
- Operating Temperature range is -10 - +55 degree Celsius.
- Body Separation distance is 50cm by using the procedure of MPE calculation.



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.  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.

