

# 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.	17-212197a
Manufacturer	Shenzhen Huaptec Co.,Ltd.
Address	5th FL, E BLDG, Sogood Science Park, Hangkong Road, Xixiang, Bao'an, Shenzhen, China
Product Description	Mobile Signal Booster; Repeater with GSM, WCDMA and LTE
Brand Name / Model Name	Huaptec / Hi23-5S, Hi10-5S, Hi13-5S, Hi17-5S, Hi20-5S

### The radio equipment meets the following essential requirements

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

Date of issue	<b>2017-08-18</b>	Expiry date:	<b>2022-08-17</b>
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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.

This version of the certificate replaces the certificate 17-212197, which is hereby withdrawn.

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



Signed by Alan Lane  
Notified Body

## Annex

### Technical description

Frequency Range	GSM 900/1800 MHz: Uplink: 880 - 915 MHz, 1710 - 1785MHz Downlink: 925 - 960 MHz, 1805 - 1880MHz UTRA FDD Band I: Uplink: 1920 - 1980 MHz, Downlink: 2110 - 2170 MHz E-UTRA FDD Band 7/20: Uplink: 2500 - 2570 MHz, 832 - 862MHz Downlink: 2620 - 2690 MHz, 791 - 821 MHz
Transmit Power	Uplink:17dBm Downlink: 23dBm
Hardware Version	F20H0-5S
Software Version	F20H0-5S

### System Components

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### Optional Components

Adapter	WT91-1207000-T Input:100-240V, 50/60Hz, 2A; Output: 12V/7A (Shenzhen Wentong Electronic Co.,Ltd )
Outdoor Antenna	Dipole Antenna, 9.0dBi (Max.)
Indoor Antenna	Dipole Antenna, 9.0dBi (Max.)
RF Cable	Length: 50ft for Outdoor Cable, 30ft for Indoor Cable, Shielded cable, without ferrite core

### Approval documentation

External / Internal Photos	Provided, 4 pages/ 3 pages
User Manual	User Manual, 21 pages
Block Diagram	Provided,1 page
Circuit Diagram	Provided, 7 pages
Operational Description	Block diagram and Theory Circuit Description, 1 page
PCB Layout	Provided, 4 pages
Parts Placement	Provided, 3 pages
Parts List	Provided, 6 pages
EU Declaration of Conformity	3 pages, July 7, 2017
Explanation of compliance Article 10(2) and Article 10(10)	Description in the User Manual
Further Documents	Risk Assessment, 4 pages, July 7, 2017 Sample family of DoC Letter, 1 page, July 7, 2017




### Applied Standards and Test Reports

Specification	Laboratory	Test Report Number / Version
EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013	Shenzhen LCS Compliance Testing Laboratory Ltd.	LCS170605043AS
EN 50385: 2002	Shenzhen LCS Compliance Testing Laboratory Ltd.	LCS170605044AE
ETSI EN 301 489-1 V2.1.1 ETSI EN 301 489-50 V2.1.1	Shenzhen LCS Compliance Testing Laboratory Ltd.	LCS170605039AE
ETSI EN 303 609 V12.5.1	Shenzhen LCS Compliance Testing Laboratory Ltd.	LCS170605040AE
ETSI EN 301 908-1 V11.1.1 ETSI EN 301 908-11 V11.1.2	Shenzhen LCS Compliance Testing Laboratory Ltd.	LCS170605041AE
ETSI EN 301 908-1 V11.1.1 ETSI EN 301 908-15 V11.1.1	Shenzhen LCS Compliance Testing Laboratory Ltd.	LCS170605042AE

### 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 -25 - +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.