

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.	17-212396
Manufacturer	Foshan Amplitec Tech Development Co.,Ltd
Address	4th floor, 4th building, No.60 of the Langbao West Road, Chancheng District, Foshan City, Guangdong, China.
Product Description	Wide Band Repeater; with GSM900 and LTE Band 20
Brand Name / Model Name	Amplitec / C20C-EL, C20C-GL, C10C-EL, C10C-GL, C15C-EL, C15C-GL, C23C-EL, C23C-GL

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 **2017-08-14** Expiry date: **2022-08-13**

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.



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 MHz, GMSK modulation Uplink: 880 MHz to 915 MHz Downlink: 925 MHz to 960 MHz LTE FDD Band 20, channel BW 5 /10 / 15 MHz Uplink: 832 MHz to 862 MHz Downlink: 791 MHz to 821 MHz
Transmit Power	GSM Uplink: 15dBm Downlink: 20dBm LTE Uplink: 15dBm Downlink: 20dBm
Hardware Version	C23S-GW V1.0
Software Version	V1.0

System Components

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Optional Components

Adapter	GM50-120300-F, (FoShan Shunde GUANYUAN Power Supply Co., Ltd.) Input: AC 100V-240V, 50/60Hz 1500mA Output: DC 12V, 3000mA
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Approval documentation

External / Internal Photos	EUT Constructional Details, 4 pages / 9 pages
User Manual	provided, 12 pages
Block Diagram	provided, 1 page
Circuit Diagram	provided, 4 pages
Operational Description	C20C-EL circuit system description, 2 pages
PCB Layout	provided, 4 pages
Parts Placement	provided, 1 page
Parts List	Components List, 4 pages
EU Declaration of Conformity	2 pages, August 09, 2017
Explanation of compliance Article 10(2) and Article 10(10)	Description in the User Manual
Further Documents	Risk Assessment, 4 pages, August 01, 2017 Model Different Letter, 1 page, August 01, 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 Zhongjian Nanfang Testing Co., Ltd	CCISS170701401
EN 50385:2002	Attestation of Global Compliance (Shenzhen) Co., Ltd	AGC01199161201EH03
Draft ETSI EN 301 489-1 V2.2.0 Draft ETSI EN 301 489-50 V2.2.0	Shenzhen Zhongjian Nanfang Testing Co., Ltd	CCISE170700701
ETSI EN 303 609 V12.5.1	Shenzhen Zhongjian Nanfang Testing Co., Ltd	CCISE170700702 Ver.02
ETSI EN 301 908-1 V11.1.1 ETSI EN 301 908-15V11.1.2	Shenzhen Zhongjian Nanfang Testing Co., Ltd	CCISE170700703 Ver.02


Limitations / Restrictions

Operating Temperature range is -10 ~ 40 degree Celsius

Body Separation distance is 20cm by using the procedure of MPE calculation.

The user shall be informed by the person placing the product onto the market if a permission of the network operators may be required for using in EC member states.

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.

