

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.	17-213875
Manufacturer	Shenzhen Chainway Information Technology Co.,Ltd.
Address	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67, Bao'an, Shenzhen, China
Product Description	Mobile Data Terminal; with GSM, Bluetooth, WiFi, Non-specific SRD, WCDMA, LTE, NFC and GPS
Brand Name / Model Name	CHAINWAY / C70

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	2017-11-22	Expiry date:	2022-11-21
---------------	-------------------	--------------	-------------------

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 4 pages.



Signed by Alan Lane
Notified Body

Annex

Technical description

Frequency Range	GSM 850/900/1800/1900 MHz 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 - 5720 MHz 5G WiFi(HT40): 5190 - 5310 MHz, 5510 - 5710 MHz 5.8G Non-specific SRD: 5745 - 5825 MHz UTRA FDD Band 1/2/5/8 E-UTRA FDD Band 1/3/5/7/8/20 E-UTRA TDD Band 40 NFC:13.56 MHz GPS:1575.42 MHz (Rx)
Transmit Power	Max.2W/Max.1W Bluetooth: 6.25 dBm EIRP 2.4G WiFi: 14.69 dBm EIRP 5G WiFi(5150 - 5250 MHz): 14.79 dBm EIRP 5G WiFi(5250 - 5350 MHz): 12.93 dBm EIRP 5G WiFi(5470 - 5725 MHz): 13.17 dBm EIRP 5.8G Non-specific SRD: 12.37 dBm EIRP UTRA FDD: 24 dBm E-UTRA FDD/TDD: 23 dBm NFC:-35.26 dBμA/m at 10m
Hardware Version	C70SE_MB_V11
Software Version	V1.0_60006735_20170424

System Components

Battery	626071, 3.8V/ 4000mAh (Springpower Technology(ShenZhen) Co.,Ltd.)
---------	--

Optional Components

Adapter	GME10D-050200FGu Input:100-240V, 50/60Hz, 0.28A; Output: 5V/2A (GME Technology (Shenzhen) Co.,Ltd.)
USB Cable	1.0 meter, shielded cable, without ferrite core



Approval documentation

External / Internal Photos	Provided, 4 pages / 9 pages
User Manual	Mobile Data Terminal C70 User Manual, 30 pages
Block Diagram	Provided, 1 page
Circuit Diagram	Provided, 56 pages
Operational Description	OPERATIONAL DESCRIPTION, 11 pages
PCB Layout	Provided, 26 pages
Parts Placement	Provided, 6 pages
Parts List	BOM, 21 pages
EU Declaration of Conformity	2 pages, October 20, 2017
Explanation of compliance Article 10(2) and Article 10(10)	Declaration of Operation in Member States and application for certification, 1 page, October 20, 2017
Further Documents	Risk Assessment, 2 pages, October 20, 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 Morlab Communications Technology Co., Ltd	SZ17080130A02
EN 50360:2001+A1:2012 EN 50566:2013/AC:2014 EN 62209-1:2006 EN 62209-2:2010 EN 62479:2010	Shenzhen Morlab Communications Technology Co., Ltd	SZ17080130S01
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	Shenzhen Morlab Communications Technology Co., Ltd	SZ17080130E02
ETSI EN 300 328 V2.1.1	Shenzhen Morlab Communications Technology Co., Ltd	SZ17080130W12 SZ17080130W13 SZ17080130W14
ETSI EN 301 893 V2.1.1	Shenzhen Morlab Communications Technology Co., Ltd	SZ17080130W16
ETSI EN 301 511 V12.5.1	Shenzhen Morlab Communications Technology Co., Ltd	SZ17080130W03
ETSI EN 301 908-1 V11.1.1 ETSI EN 301 908-2 V11.1.1	Shenzhen Morlab Communications Technology Co., Ltd	SZ17080130W04
ETSI EN 301908-1 V11.1.1 ETSI EN 301908-13 V11.1.1	Shenzhen Morlab Communications Technology Co., Ltd	SZ17080130W20
ETSI EN 300 330 V2.1.1	Shenzhen Morlab Communications Technology Co., Ltd	SZ17080130W18
Draft ETSI EN 300 440 V2.2.0	Shenzhen Morlab Communications Technology Co., Ltd	SZ17080130W15
ETSI EN 303 413 V1.1.1	Shenzhen Morlab Communications Technology Co., Ltd	SZ17080130W17



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 -20 - +45 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.  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.

