EU – TYPE EXAMINATION CERTIFICATE
RADIO EQUIPMENT DIRECTIVE 2014/53/EU
Annex III Module B

MANUFACTURER

Name	:	Shenzhen Chainway Information Technology Co.,Ltd.
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Contact Name & Title	:	Wenzhang Li, Manager
Phone number & Email	:	liwenzhang@chainway.cn

PRODUCT DESCRIPTION

Trademark/Trade Name	:	CHAINWAY
Model Number	:	P80
Product Description	:	Industrial tablet

TECHNICAL DOCUMENTATION

Identification	:	P80		
Signed by (Name & Title)	:	Li Wenzhang & Manager	Date :	December 17, 2018
Company Name	:	Shenzhen Chainway Information Technology Co., Ltd.		

NOTIFIED BODY

Certificate issued by	:	Notified Body 1177, TIMCO Engineering, Inc.		
Certificate number	:	TCF-2157CC18		
Name and Signature	:	Bruno Clavier	Date :	December 31, 2018

The device shall be marked as follows: CE *(Note: It is no longer allowed to use the Notified Body number next to the CE marking under conformity procedures of EU-Type Examination - Annex III)*

Based on the evidence presented in the Technical Documentation, TIMCO Engineering, Inc., as appointed Notified Body, has issued this EU-Type Examination Certificate in accordance with Annex III Module B. The product described appears to be in conformity with the essential requirements Article 3.1(a), 3.1(b), and 3.2 of RED 2014/53/EU. This certificate is only valid in conjunction with the related Evaluation Report. This certificate is valid up to (1) the date of cessation of presumption of conformity of any of the superseded standards which were used for testing this product and assessed by Notified Body or (2) the date of modifications to the approved type that may affect the conformity of the apparatus with the essential requirements of this Directive or the conditions for validity of that certificate, whichever comes first.

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EU – TYPE EXAMINATION CERTIFICATE
ANNEX 1
TCF-2157CC18

Date: December 31, 2018

PRODUCT SPECIFICATIONS

Intended Use / Category	:	GSM900
RF output power	:	32.32dBm (Conducted)
Frequency range (MHz)	:	880-915MHz (UL), 925-960MHz (DL)
Modulation	:	GMSK, 8PSK
Antenna type	:	Internal antenna

Intended Use / Category	:	GSM1800
RF output power	:	30.01dBm (Conducted)
Frequency range (MHz)	:	1710-1785MHz (UL), 1805-1880MHz (DL)
Modulation	:	GMSK, 8PSK
Antenna type	:	Internal antenna

Intended Use / Category	:	WCDMA Band 1
RF output power	:	22.91dBm (Conducted)
Frequency range (MHz)	:	1920-1980MHz (UL), 2110-2170MHz (DL)
Modulation	:	QPSK, 16QAM
Antenna type	:	Internal antenna

Intended Use / Category	:	WCDMA Band 8
RF output power	:	22.22dBm (Conducted)
Frequency range (MHz)	:	880-915MHz (UL), 925-960MHz (DL)
Modulation	:	QPSK, 16QAM
Antenna type	:	Internal antenna

Intended Use / Category	:	LTE Band 1
RF output power	:	22.72dBm (Conducted)
Frequency range (MHz)	:	1920-1980MHz (UL), 2110-2170MHz (DL)
Modulation	:	QPSK, 16QAM, 64QAM (DL)
Antenna type	:	Internal antenna

Intended Use / Category	:	LTE Band 3
RF output power	:	22.60dBm (Conducted)
Frequency range (MHz)	:	1710-1785MHz (UL), 1805-1880MHz (DL)
Modulation	:	QPSK, 16QAM, 64QAM (DL)
Antenna type	:	Internal antenna

Intended Use / Category	:	LTE Band 7
RF output power	:	21.55dBm (Conducted)
Frequency range (MHz)	:	2500-2570MHz (UL), 2620-2690MHz (DL)
Modulation	:	QPSK, 16QAM, 64QAM (DL)
Antenna type	:	Internal antenna

Intended Use / Category	:	LTE Band 8
RF output power	:	23.61dBm (Conducted)
Frequency range (MHz)	:	880-915MHz (UL), 925-960MHz (DL)
Modulation	:	QPSK, 16QAM, 64QAM (DL)
Antenna type	:	Internal antenna

Intended Use / Category	:	LTE Band 20
RF output power	:	23.95dBm (Conducted)
Frequency range (MHz)	:	832-862MHz (UL), 791-821MHz (DL)
Modulation	:	QPSK, 16QAM, 64QAM (DL)
Antenna type	:	Internal antenna

Intended Use / Category	:	LTE Band 28
RF output power	:	21.76dBm (Conducted)
Frequency range (MHz)	:	703-748MHz (UL), 758-803MHz (DL)
Modulation	:	QPSK, 16QAM, 64QAM(DL)
Antenna type	:	Internal antenna

Intended Use / Category	:	LTE Band 38
RF output power	:	21.86dBm (Conducted)
Frequency range (MHz)	:	2570-2620 MHz (UL/DL)
Modulation	:	QPSK, 16QAM, 64QAM (DL)
Antenna type	:	Internal antenna

Intended Use / Category	:	LTE Band 40
RF output power	:	21.86dBm (Conducted)
Frequency range (MHz)	:	2300-2400 MHz (UL/DL)
Modulation	:	QPSK, 16QAM, 64QAM (DL)
Antenna type	:	Internal antenna

Intended Use / Category	:	2.4GHz WLAN
RF output power	:	17.20dBm (EIRP)
Frequency range (MHz)	:	2412-2472MHz
Modulation	:	DSSS,OFDM
Antenna type	:	Internal antenna

Intended Use / Category	:	Bluetooth (EDR)
RF output power	:	7.07dBm (EIRP)
Frequency range (MHz)	:	2402-2480MHz (RX/TX)
Modulation	:	GFSK，π/4-DQPSK，8DPSK
Antenna type	:	Internal antenna

Intended Use / Category	:	BLE
RF output power	:	1.94dBm (EIRP)
Frequency range (MHz)	:	2402-2480MHz(RX/TX)
Modulation	:	GFSK
Antenna type	:	Internal antenna

Intended Use / Category	:	5GHz WLAN
RF output power	:	9.17dBm (EIRP)
Frequency range (MHz)	:	5180-5240MHz (RX/TX)
Modulation	:	OFDM
Antenna type	:	Internal antenna

Intended Use / Category	:	NFC
RF output power	:	N/A
Frequency range (MHz)	:	13.56MHz (TX/RX)
Modulation	:	ASK
Antenna type	:	Internal antenna

Intended Use / Category	:	GPS
RF output power	:	N/A
Frequency range (MHz)	:	1575.42MHz (RX)
Modulation	:	BPSK
Antenna type	:	Internal antenna

According to the Technical Documentation compiled by the Manufacturer, this radio equipment was assessed for compliance with the following standards, which were applied in full:

ESSENTIAL REQUIREMENTS ASSESSED

Aspects		**Standard Number**
Radio	:	EN 300 330 V2.1.1; EN 300 328 V2.1.1 EN 301 511 V12.5.1;EN 301 908-1 V11.1.1 EN 301 908-2 V11.1.2; EN 301 908-13 V11.1.2 EN 301 893 V2.1.1 ; EN 303 413 V1.1.1
EMC	:	Draft EN 301 489-1 V2.2.0 Final draft EN 301 489-3 V2.1.1 Draft EN 301 489-17 V3.2.0 Draft EN 301 489-19 V2.1.0 Draft EN 301 489-52 V1.1.0
EMF	:	EN50360:2017 ; EN50566:2017 EN62311:2008 ; EN62479:2010 EN62209-1:2016 ; EN62209-2:2010
Safety	:	EN60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

LIST OF DOCUMENTS REVIEWED

Item	**Exhibit Description**	
1.	Copy of the Declaration of Conformity	☑
2.	Agent/Representative authorization letter from Manufacturer (if application is filed by someone other than Manufacturer)	☑
3.	Attestation letter for compliance with Article 10(2)	☑
4.	Attestation letter and/or exhibits for compliance with Article 10(10) (i.e. info on packaging completed with users instructions)	☑
5.	A general description of the radio equipment (e.g. Operational Description)	☑
6.	Photographs or illustrations showing external features, marking and internal layout	☑
7.	RED Annex VI Point 8 - Versions of software or firmware affecting compliance with essential requirements	☐
8.	User information and installation instructions	☑
9.	Conceptual design and manufacturing drawings and schemes of components, sub-assemblies, circuits and other relevant similar elements	☑
10.	Descriptions and explanations necessary for the understanding of those drawings and schemes and the operation of the radio equipment	☑
11.	RED Annex III module B - Analysis and assessment of the risk(s)	☑
12.	Where the conformity assessment module in Annex III has been applied, copy of the EU-type examination certificate and its annexes as delivered by the notified body involved	☑
13.	Results of design calculations made, examinations carried out, and other relevant similar elements	☐

Item	Exhibit Description		
14.	Test reports	SET2018-12316 SET2018-12317 SET2018-12318 SET2018-12532 SET2018-12765 SET2018-12766 SET2018-12767 SET2018-13039 SET2018-13070 SET2018-15814	☑