

**Radio Equipment Directive (RED) 2014/53/EU
EU-Type Examination Certificate**

Certificate Holder

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Product Description

Product Name: Smartphone

Model Name: X100

Brand Name: CUBOT

Hardware Version: 3370V-MQ V1

Software Version: CUBOT_X100_F031C_V01

This EU-Type Examination Certificate remains valid as long as the stated product stays in
compliance with essential requirements of the Radio Equipment Directive.



Joe Chew, Product Certifier

DERYCOM CERTIFICATION SERVICES, INC.

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Notified Body ID number: 3052

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EU-Type Examination Certificate (Module B)

General Condition

For each product to which this EU-Type examination certification relates, it has complied to the essential requirements as follows:

Article 3.1

Radio equipment shall be constructed so as to ensure:

- C (a) The protection of health and safety of persons and of domestic animals and the protection of property, including the objectives with respect to safety requirements set out in Directive 2014/35/EU but with no voltage limit applying.
- C (b) an adequate level of electromagnetic compatibility as set out in Directive 2014/30/EU

Article 3.2

Radio equipment shall be so constructed that it both effectively uses and supports the efficient use of radio spectrum in order to avoid harmful interference.

Article 3.3

Radio equipment within certain categories or classes shall be so constructed that it complies with the following essential requirements.

- N/A (a) radio equipment interworks with accessories other than the charging devices for the categories or classes of radio equipment, specified in Part I of Annex Ia, which are specifically referred to in paragraph 4 of this Article;
- N/A (b) radio equipment interworks via networks with other radio equipment;
- N/A (c) radio equipment can be connected to interfaces of the appropriate type throughout the Union;
- N/A (d) radio equipment does not harm the network or its functioning nor misuse network resources, thereby causing an unacceptable degradation of service;
- N/A (e) radio equipment incorporates safeguards to ensure that the personal data and privacy of the user and of the subscriber are protected;
- N/A (f) radio equipment supports certain features ensuring protection from fraud;
- NP (g) radio equipment supports certain features ensuring access to emergency services;
- N/A (h) radio equipment supports certain features in order to facilitate its use by users with a disability;
- N/A (i) radio equipment supports certain features in order to ensure that software can only be loaded into the radio equipment where the compliance of the combination of the radio equipment and software has been demonstrated.

Article 3.4

Radio equipment falling within the categories or cases specified in Part I of Annex Ia shall be so constructed that it complies with the specifications relating to charging capabilities set out in that Annex for the relevant category or class of radio equipment.

Legend

C	=	Conform
NC	=	Not Conform
NA	=	Not applicable (for this equipment)
NP	=	Not performed (for this certificate)

Technical Description

Intended Use / Category	NFC
RF output power	-49.87 dBμA/m@10m
Frequency range (MHz)	13.56 MHz
Antenna type and Gain	FPC Antenna
Intended Use / Category	Bluetooth BDR/EDR
RF output power	9.17 dBm (E.I.R.P)
Frequency range (MHz)	2402-2480 MHz
Antenna type and Gain	FPC Antenna, -1dBi
Intended Use / Category	Bluetooth LE
RF output power	-7.01 dBm (E.I.R.P)
Frequency range (MHz)	2402-2480 MHz
Antenna type and Gain	FPC Antenna, -1dBi
Intended Use / Category	WLAN
RF output power	16.21 dBm (E.I.R.P)
Frequency range (MHz)	2412-2472 MHz
Antenna type and Gain	FPC Antenna, -1dBi
Intended Use / Category	RLAN
RF output power	8.45 dBm (E.I.R.P)
Frequency range (MHz)	5180-5700 MHz

Antenna type and Gain	FPC Antenna, 1.5dBi
Intended Use / Category	RLAN
RF output power	4.43 dBm (E.I.R.P)
Frequency range (MHz)	5745-5825 MHz
Antenna type and Gain	FPC Antenna, 0.2dBi
Intended Use / Category	GSM 900/DCS 1800
RF output power	GSM 900: 32.69 dBm (Conducted) DCS 1800: 29.95 dBm (Conducted)
Frequency range (MHz)	GSM 900: 880-915 MHz (Tx), 925-960 MHz (Rx) DCS 1800: 1710-1785 MHz (Tx), 1805-1880 MHz (Rx)
Antenna type and Gain	FPC Antenna GSM 900: -2.4dBi DCS 1800: -0.7dBi
Intended Use / Category	UTRA Operation Bands
RF output power	UTRA Band I: 23.81 dBm (Conducted) UTRA Band VIII: 22.94 dBm (Conducted)
Frequency range (MHz)	UTRA Band I: 1920-1980 MHz (Tx), 2110-2170 MHz (Rx) UTRA Band VIII: 880-915 MHz (Tx), 925-960 MHz (Rx)
Antenna type and Gain	FPC Antenna UTRA Band I: -0.1dBi UTRA Band VIII: -2.4dBi
Intended Use / Category	E-UTRA Operation Bands
RF output power	LTE Band 1: 23.86 dBm (Conducted) LTE Band 3: 23.66 dBm (Conducted) LTE Band 7: 23.56 dBm (Conducted) LTE Band 8: 22.65 dBm (Conducted) LTE Band 20: 25.13 dBm (Conducted) LTE Band 28: 25.7 dBm (Conducted) LTE Band 38: 24.21 dBm (Conducted) LTE Band 40: 23.8 dBm (Conducted)
Frequency range (MHz)	LTE Band 1: 1920-1980 MHz (Tx), 2110-2170 MHz (Rx) LTE Band 3: 1710-1785 MHz (Tx), 1805-1880 MHz (Rx) LTE Band 7: 2500-2570 MHz (Tx), 2620-2690 MHz (Rx)

LTE Band 8: 880-915 MHz (Tx), 925-960 MHz (Rx)
LTE Band 20: 832-862 MHz (Tx), 791-821 MHz (Rx)
LTE Band 28: 703-748 MHz (Tx), 758-803 MHz (Rx)
LTE Band 38: 2570-2620 MHz (Tx), 2570-2620 MHz (Rx)
LTE Band 40: 2300-2400 MHz (Tx), 2300-2400 MHz (Rx)

Antenna type and Gain	FPC Antenna	LTE band 1: -0.1dBi
		LTE band 3: -0.7dBi
		LTE band 7: -0.7dBi
		LTE band 8: -2.4dBi
		LTE band 20: -3.2dBi
		LTE band 28: -4.4dBi
		LTE band 38: -0.9dBi
Intended Use / Category	5G NR Operation Bands	LTE band 40: -1.2dBi
RF output power	5G NR n1: 22.15 dBm (Conducted)	
Frequency range (MHz)	5G NR n3: 21.48 dBm (Conducted)	
Antenna type and Gain	FPC Antenna	5G NR n7: 20.99 dBm (Conducted)
		5G NR n1: 1920-1980 MHz (Tx), 2110-2170 MHz (Rx)
		5G NR n3: 1710-1785 MHz (Tx), 1805-1880 MHz (Rx)
		5G NR n7: 2500-2570 MHz (Tx), 2620-2690 MHz (Rx)
		5G NR n1: -0.1dBi
		5G NR n3: -0.7dBi
		5G NR n7: -0.9dBi
Intended Use / Category	GNSS (Receive Only)	
RF output power	--	
Frequency range (MHz)	GLONASS: 1602 MHz	GPS: 1575.42 MHz
Antenna type and Gain	FPC Antenna, 0dBi	SBAS: 1575.42 MHz

Note:

1. This Product shall compliance with Article 3.3g requirements, but has not been assessed during this assessment.
2. This device also has been assessed standard IEC 62133-2:2017, IEC 62133-2:2017/AMD1:2021, report number is TCT-250313B044.

ESSENTIAL REQUIREMENTS

Essential Requirement	Standard Number & Version	Test Reports
Radio (Article 3.2)	ETSI EN 300 328 V2.2.2	TCT250324E012
		TCT250324E013
		TCT250324E014
	ETSI EN 301 893 V2.1.1	TCT250324E043
	ETSI EN 300 440 V2.2.1	TCT250324E044
	ETSI EN 300 330 V2.1.1	TCT250324E045
	ETSI EN 303 413 V1.2.1	TCT250324E046
	ETSI EN 301 511 V12.5.1	TCT250324E047
	ETSI EN 301 908-1 V15.2.1	
	ETSI EN 301 908-2 V13.1.1	TCT250324E048
EMC (Article 3.1b)	ETSI EN 301 908-13 V13.2.1	TCT250324E049
	ETSI EN 301 908-25 V15.1.1	TCT250324E050
	ETSI EN 301 489-52 V1.3.1	TCT250324E051
	ETSI EN 301 489-19 V2.2.1	
	ETSI EN 301 489-17 V3.3.1	
	ETSI EN 301 489-3 V2.3.2	
	ETSI EN 301 489-1 V2.2.3	
	EN 55032:2015+A11:2020+A1:2020	TCT250324E011
	EN 55035:2017+A11:2020	
	EN IEC 61000-3-2:2019+A1:2021+A2:2024	
Health (Article 3.1a)	EN 61000-3-3:2013+A1:2019+A2:2021	
	EN 50566:2017+A1:2023	TCT250324E015
	EN IEC/IEEE 62209-1528:2021	
	EN 50360:2017+A1:2023	
	EN 62479:2010	TCT250324E052
	EN 50663:2017	
Safety (Article 3.1a)	EN IEC 62311:2020	TCT250324E053
	EN IEC 62368-1: 2020+A11:2020	TCT250324B002

Radio (Article 3.3g)	N/A	--
Radio (Article 3.4)	EN IEC 62680-1-2:2022	TCT250324S002
	EN IEC 62680-1-3:2022	

Technical Documentation Files

Product Documentation reviewed

External Photos <input checked="" type="checkbox"/>	Assembly drawings <input checked="" type="checkbox"/>
Internal Photos <input checked="" type="checkbox"/>	Bill of materials <input checked="" type="checkbox"/>
Test Setup Photos <input checked="" type="checkbox"/>	Block diagram <input checked="" type="checkbox"/>
Label and Label Placement <input checked="" type="checkbox"/>	Schematics <input checked="" type="checkbox"/>
Risk Assessment <input checked="" type="checkbox"/>	Manual <input checked="" type="checkbox"/>
RED Declarations <input checked="" type="checkbox"/>	PCB Layout and Part Placement <input checked="" type="checkbox"/>

Annex I**Article 19 General principles of the CE marking**

1. The CE marking shall be subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008.
2. On account of the nature of radio equipment, the height of the CE marking affixed to radio equipment may be lower than 5 mm, provided that it remains visible and legible.

Article 20 Rules and conditions for affixing the CE marking and the identification number of the notified body

1. The CE marking shall be affixed visibly, legibly and indelibly to the radio equipment or to its data plate, unless that is not possible or not warranted on account of the nature of radio equipment. The CE marking shall also be affixed visibly and legibly to the packaging.
2. The CE marking shall be affixed before the radio equipment is placed on the market.
3. Member States shall build upon existing mechanisms to ensure correct application of the regime governing the CE marking and shall take appropriate action in the event of improper use of that marking.

Article 21 Technical documentation

1. The technical documentation shall contain all relevant data or details of the means used by the manufacturer to ensure that radio equipment complies with the essential requirements set out in Article 3. It shall, at least, contain the elements set out in Annex V.
2. The technical documentation shall be drawn up before radio equipment is placed on the market and shall be continuously updated.
3. The technical documentation and correspondence relating to any EU-type examination procedure shall be drawn up in an official language of the Member State in which the notified body is established or in a language acceptable to that body.
4. Where the technical documentation does not comply with paragraphs 1, 2 or 3 of this Article, and in so doing fails to present sufficient relevant data or means used to ensure compliance of radio equipment with the essential requirements set out in Article 3, the market surveillance authority may ask the manufacturer or the importer to have a test performed by a body acceptable to the market surveillance authority at the expense of the manufacturer or the importer within a specified period in order to verify compliance with the essential requirements set out in Article 3.