

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

Certificate Holder

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Product Description

Product Name: Rugged Smart Phone

Model Name: H6, H8, H9, H10, H11

Brand Name: HAMTOD

Hardware Version: L116_BM_V1.0

Software Version: sp9832e_1h10_go2guser-native

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

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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 Bluetooth BR/EDR

RF output power 6.5 dBm (E.I.R.P.)

Frequency range (MHz) 2402-2480 MHz

Antenna type and Gain FPC Antenna, 1.37dBi

Intended Use / Category Bluetooth LE

RF output power -0.75 dBm (E.I.R.P.)

Frequency range (MHz) 2402-2480 MHz

Antenna type and Gain FPC Antenna, 1.37dBi

Intended Use / Category WLAN

RF output power 14.42 dBm (E.I.R.P.)

Frequency range (MHz) 2412-2472 MHz

Antenna type and Gain FPC Antenna, 1.37dBi

Intended Use / Category GSM 900/DCS 1800

RF output power GSM 900: 32.96 dBm (Conducted)

DCS 1800: 29.64 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 GSM 900: -1.05dBi

PIFA Antenna, DCS 1800: 0.63dBi

Intended Use / Category	UTRA Operation Bands		
RF output power	UTRA Band I: 22.84 dBm (Conducted)		
	UTRA Band VIII: 22.38 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	PIFA Antenna,	Band I: 0.91dBi	Band VIII: -1.05dBi
Intended Use / Category	E-UTRA Operation Bands		
RF output power	LTE Band 1: 23.02 dBm (Conducted)		
	LTE Band 3: 23.38 dBm (Conducted)		
	LTE Band 7: 23.60 dBm (Conducted)		
	LTE Band 8: 23.08 dBm (Conducted)		
	LTE Band 20: 23.01 dBm (Conducted)		
	LTE Band 28: 23.10 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)		
Antenna type and Gain	PIFA Antenna,	Band 1: 0.91dBi	
		Band 3: 0.63dBi	
		Band 7: 1.12dBi	
		Band 8: -1.05dBi	
		Band 20: -0.71dBi;	
		Band 28: -1.18dBi	
Intended Use / Category	GNSS (Receive Only)		
RF output power	--		
Frequency range (MHz)	GPS: 1575.42 MHz		
	GLONASS: 1602 MHz		

Antenna type and Gain FPC Antenna

Intended Use / Category FM (Receive Only)

RF output power --

Frequency range (MHz) 87.5-108 MHz

Antenna type and Gain Earphone Antenna

Note:

1. This Product shall compliance with Article 3.3g and Article 3.4 requirements, but has not been assessed during this assessment.

ESSENTIAL REQUIREMENTS

Essential Requirement	Standard Number & Version	Test Reports
Radio (Article 3.2)	ETSI EN 300 328 V2.2.2	STS2507194W01
		STS2507194W02
		STS2507194W03
	ETSI EN 303 345-1 V1.1.1	STS2507194W04
	ETSI EN 303 345-3 V1.1.1	
	ETSI EN 303 413 V1.2.1	STS2507194W05
	ETSI EN 301 511 V12.5.1	STS2507194W10
	ETSI EN 301 908-1 V15.2.1	
	ETSI EN 301 908-2 V13.1.1	
	ETSI EN 301 908-13 V13.3.1	
EMC (Article 3.1b)	ETSI EN 301 489-1 V2.2.3	STS2507194E01
	ETSI EN 301 489-17 V3.3.1	
	ETSI EN 301 489-19 V2.2.1	
	ETSI EN 301 489-52 V1.3.1	
	EN 55032:2015/A11:2020	STS2507194E02
	EN IEC 61000-3-2:2019/A2:2024	
	EN 61000-3-3:2013/A2:2021/AC:2022	
	EN 55035:2017/A11:2020	
Health (Article 3.1a)	EN 50360: 2017/A1:2023	STS2507194H01
	EN 50566: 2017/A1:2023	
	EN IEC/IEEE 62209-1528:2021	
	EN 50663:2017	
	EN 62479:2010	
Safety (Article 3.1a)	EN IEC 62368-1: 2020+A11:2020	STS2507194A01
Radio (Article 3.3g)	N/A	--
Radio (Article 3.4)	N/A	--

Technical Documentation Files

Product Documentation reviewed

External Photos ☒

Assembly drawings ☒

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Internal Photos ☒	Bill of materials ☒
Test Setup Photos ☒	Block diagram ☒
Label and Label Placement ☒	Schematics ☒
Risk Assessment ☒	Manual ☒
RED Declarations ☒	PCB Layout and Part Placement ☒

EU-Type Examination Certificate (Module B)

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.