

Notified Body

EU Type Examination Certificate

Manufacturer company name: HMS Industrial Networks S.A.
Manufacturer address: Avenue Robert Schuman, 22, Nivelles 1400 Belgium
Description of the radio equipment: 4G EU Extension card for Flexy IIOT Remote Access Gateway
Trade name/brand name: Ewon
Model/type indication: 04801

Technologies: UMTS/E-UTRA transceivers

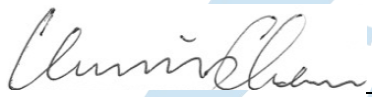
TD reference: 04801
ACB project number: ATCB029067
Certificate number: ATCB029067, issue 1

ACB, Inc. is designated as a Notified Body under the
U.S.-EU Mutual Recognition Agreement for Radio Equipment Directive 2014/53/EU

ACB, Inc.
Notified Body Number 1588
6731 Whittier Avenue, Suite C110
McLean, VA 22101, USA

In the opinion of ACB, Inc., the examination of the technical documentation as drawn up by the manufacturer demonstrates that the essential requirements of Article 3.1a, Article 3.1b and Article 3.2, of Radio Equipment Directive 2014/53/EU have been met. The conformity assessment on the radio equipment listed above and as described in Annex 1 to this EU-type examination certificate has been carried out in accordance with Annex III, Module B, of Radio Equipment Directive 2014/53/EU. This EU-type examination certificate relates only to the documents as provided to ACB, Inc.

A list of documentation forming the basis for the EU-type examination is provided in
Annex 2 to this EU-type examination certificate.



Notified Body: *Kerwin Chen*

24 July 2022

Date



Annex 1 to EU-type examination certificate for Radio Equipment Directive 2014/53/EU

Date of issue: 24 July 2022

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The radio equipment as described and documented in the technical documentation as drawn up by the manufacturer is an IIOT Remote Access Gateway.

It supports UMTS technology in the 900 MHz Band VIII, 1800 MHz Band III and 2100 MHz Band I.
It supports LTE FDD technology in the 700 MHz Band 28A, 800 MHz Band 20, 900 MHz Band 8, 1800 MHz Band 3, 2100 MHz Band 1 and 2600 MHz Band 7.

The conformity assessment of this radio equipment is limited to those frequency bands of operation which are available for use in one or more Member States of the European Union and EFTA countries as detailed below.

Details of operation:

Description of service:	UMTS 900 MHz Band VIII
Transmit frequency:	880 MHz to 915 MHz
Receive frequency:	925 MHz to 960 MHz
Modulation:	QPSK, 16QAM
Power class:	Class 3
Transmit power:	24 dBm, conducted rated power

Description of service:	UMTS 1800 MHz Band III
Transmit frequency:	1710 MHz to 1785 MHz
Receive frequency:	1805 MHz to 1880 MHz
Modulation:	QPSK, 16QAM
Power class:	Class 3
Transmit power:	24 dBm, conducted rated power

Description of service:	UMTS 2100 MHz Band I
Transmit frequency:	1920 MHz to 1980 MHz
Receive frequency:	2110 MHz to 2170 MHz
Modulation:	QPSK, 16QAM
Power class:	Class 3
Transmit power:	24 dBm, conducted rated power



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Description of service: E-UTRA LTE FDD Band 28A
Transmit frequency: 703 MHz to 733 MHz
Receive frequency: 758 MHz to 788 MHz
Modulation: QPSK, 16QAM, 64QAM
Power class: Class 3
Transmit power: 23 dBm, conducted rated power

Description of service: E-UTRA LTE FDD Band 20
Transmit frequency: 832 MHz to 862 MHz
Receive frequency: 791 MHz to 821 MHz
Modulation: QPSK, 16QAM, 64QAM
Power class: Class 3
Transmit power: 23 dBm, conducted rated power

Description of service: E-UTRA LTE FDD Band 8
Transmit frequency: 880 MHz to 915 MHz
Receive frequency: 925 MHz to 960 MHz
Modulation: QPSK, 16QAM, 64QAM
Power class: Class 3
Transmit power: 23 dBm, conducted rated power

Description of service: E-UTRA LTE FDD Band 3
Transmit frequency: 1710 MHz to 1785 MHz
Receive frequency: 1805 MHz to 1880 MHz
Modulation: QPSK, 16QAM, 64QAM
Power class: Class 3
Transmit power: 23 dBm, conducted rated power

Description of service: E-UTRA LTE FDD Band 1
Transmit frequency: 1920 MHz to 1980 MHz
Receive frequency: 2110 MHz to 2170 MHz
Modulation: QPSK, 16QAM, 64QAM
Power class: Class 3
Transmit power: 23 dBm, conducted rated power

Description of service: E-UTRA LTE FDD Band 7
Transmit frequency: 2500 MHz to 2570 MHz
Receive frequency: 2620 MHz to 2690 MHz
Modulation: QPSK, 16QAM, 64QAM
Power class: Class 3
Transmit power: 23 dBm, conducted rated power



Annex 2 to EU-type examination certificate for Radio Equipment Directive 2014/53/EU

Date of issue: 24 July 2022

TD reference: 04801

ACB project number/Certificate number: ATCB029067, issue 1

- | | | | |
|---|---|--|---|
| 1 | Test report:
EMC
Radio
RF safety
Product safety | Report number:
MDE_EWON_2201_EMC_01
MDE_EWON_2201_RADIO_01
EHW-0610-007-REP
E350576-A6002-CB-1 | Dated:
22 June 2022
17 June 2022
19 July 2022
01 April 2022 |
| 2 | Technical documentation provided:
Antenna details
Internal photographs
Parts list/bill of materials
User manual | Circuit diagram/schematics
Label drawing/location
Test reports
Risk assessment | External photographs
Operational description
Test setup photographs
EU declaration of conformity |

Referenced RF Modular EU-TEC, released by DEKRA/1909 (Model: LE910C4-EU)
Certification Number: 7053RNB.001A2
Issued Date: 2022-04-04

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|---|---|---|
| 3 | Standards used to demonstrate conformity with the essential requirements of Radio Equipment Directive 2014/53/EU: | |
| | Radio Spectrum (Article 3.2): | EN 301 908-1 V15.1.1
EN 301 908-13 V13.1.1
EN 301 908-2 V13.1.1 |
| | EMC (Article 3.1b): | EN 301 489-1 V2.2.3
EN 301 489-52 V1.2.1 |
| | RF safety (Article 3.1a): | EN 62311: 2020 |
| | Product safety (Article 3.1a): | EN 62368-1: 2014 + A11: 2017 |

- 4 Additional information:
This is a Class 1 device if only used under the control of a public licensed network.

Radio Equipment Directive 2014/53/EU, Article 10.4: Manufacturers shall keep the technical documentation and the EU declaration of conformity for 10 years after the radio equipment has been placed on the market.

Radio Equipment Directive 2014/53/EU, Article 10.6: Manufacturers shall ensure that radio equipment which they have placed on the market bears a type, batch or serial number or other element allowing its identification, or, where the size or nature of the radio equipment does not allow it, that the required information is provided on the packaging, or in a document accompanying the radio equipment.

Radio Equipment Directive 2014/53/EU, Article 10.7: Manufacturers shall indicate on the radio equipment their name, registered trade name or registered trade mark and the postal address at which they can be contacted or, where the size or nature of radio equipment does not allow it, on its packaging, or in a document accompanying the radio equipment. The address shall indicate a single point at which the manufacturer can be contacted. The contact details shall be in a language easily understood by end-users and market surveillance authorities.



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Radio Equipment Directive 2014/53/EU, Article 10.8: Manufacturers shall ensure that the radio equipment is accompanied by instructions and safety information in a language which can be easily understood by consumers and other end-users, as determined by the Member State concerned. Instructions shall include the information required to use radio equipment in accordance with its intended use. Such information shall include, where applicable, a description of accessories and components, including software, which allow the radio equipment to operate as intended. Such instructions and safety information, as well as any labelling, shall be clear, understandable and intelligible.

The following information shall also be included in the case of radio equipment intentionally emitting radio waves:

(a) frequency band(s) in which the radio equipment operates;

(b) maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates.

Radio Equipment Directive 2014/53/EU, Article 10.9: Manufacturers shall ensure that each item of radio equipment is accompanied by a copy of the EU declaration of conformity or by a simplified EU declaration of conformity. Where a simplified EU declaration of conformity is provided, it shall contain the exact internet address where the full text of the EU declaration of conformity can be obtained.

Radio Equipment Directive 2014/53/EU, Article 10.10: In cases of restrictions on putting into service or of requirements for authorization of use, information available on the packaging shall allow the identification of the Member States or the geographical area within a Member State where restrictions on putting into service or requirements for authorization of use exist. Such information shall be completed in the instructions accompanying the radio equipment.

Radio Equipment Directive 2014/53/EU, Article 19.2: 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.

Radio Equipment Directive 2014/53/EU, Article 20.1: 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.

Radio Equipment Directive 2014/53/EU, Annex III, Module B.7: The manufacturer shall inform the notified body that holds the technical documentation relating to the EU-type examination certificate of all modifications to the approved type that may affect the conformity of the radio equipment with the essential requirements of this Directive or the conditions for validity of that certificate. Such modifications shall require additional approval in the form of an addition to the original EU-type examination certificate.

In accordance with Notified Body guidance; if there are no changes, a Notified Body EU type examination certificate has a validity of 10 years from the date of issue.

5 Contact information:

For contact with ACB or questions regarding this EU-type examination certificate:

Web: www.acbcert.com

<http://acbcert.com/contact>

Tel.: (+1) 703 847 4700

