



Number: 232340169/AA/00
Issue Date: 28 September 2023
Expiration Date: -
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UKCA TYPE EXAMINATION CERTIFICATE (Module B)

In compliance with the procedure specified in M009, Kiwa Ltd. declares as approved body for UKCA 0558 for the Radio Equipment Regulations 2017, that the stated product, complies with the essential requirements, in accordance with part 2 (chapter 1) of Radio Equipment Regulations, as indicated under Annex 1 of this certificate, based on the applicable Technical Standards and Specifications as listed under Annex 2 of this Certificate.

Product description:	Sona IF573 802.11ax Wi-Fi 6E Module with Bluetooth 5.4
Trademark:	Laird Connectivity
Type designation:	Sona IF573
Hardware / Software version:	R1.0 / 18.15 RC1.54 wI0:May 21 2023 19:48:44 version

This certificate is granted to manufacturer:

Name:	Laird Connectivity LLC
Address:	W66N220 Commerce Court,
City:	Cedarburg , WI 53012
Country:	United States of America

This certificate remains valid as long as the stated product stays in compliance with the essential requirements of the Radio Equipment Regulations 2017.

This certificate has THREE Annexes.

Signed on behalf of Kiwa Ltd.
(UK Approved Body Number 0558)

George Lo
Product Assessor

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General Conditions

For each product to which this type examination relates, it has complied to the essential requirements as follows:

Article 6.1

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 the Electrical Equipment (Safety) Regulations 2016,
- C (b) an adequate level of electromagnetic compatibility as set out in the Electromagnetic Compatibility Regulations 2016.

Article 6.2

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

Legend

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

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- This UKCA-type examination certificate is limited to the Radio Equipment Regulations.
- This UKCA-type examination certificate is part of the Conformity Assessment procedure Modules B and C, as described in annex III of the Radio Equipment Regulations.
- The validity of this UKCA type examination certificate is limited to products, which are equal to the one(s) assessed for this type Examination.
- The manufacturer has to draw up and issue a self Declaration of Conformity, declaring that the product(s) described in this UKCA-type examination certificate, are in compliance with Radio Equipment Regulations 2017 and any other applicable harmonization legislation.
- Each product shall be identified by means of type, batch and/or serial numbers and the name of the manufacturer and/or importer.
- If the equipment is to be modified, Kiwa Ltd. shall be notified immediately. Depending on the modifications, Kiwa Ltd. may have additional examinations carried out in consultation with the applicant.
- Enforcement of a new amending regulation voids the validity of this UKCA-type examination certificate.
- In case any referenced standard in this UKCA-type examination certificate is withdrawn or superseded and the presumption of conformity with the essential requirements has ceased, investigation by Kiwa Ltd. is needed to determine the validity of this type examination.

Remarks and observations

The following conditions are applicable:

This radio module has been assessed for use in the temperature range of -20°C to +85°C and with an input voltage of 3.3 V DC. This radio module is for professional installation only. When installing this radio module permanently into a host product to create a new radio equipment device, the manufacturer responsible for placing the final radio product on the market in the EU must assess if the combination of this radio module and the host product complies with the essential requirements of the RE Directive 2014/53/EU.

Device is restricted to indoor use only when operating within 5150-5350 MHz, and 5945-6425MHz frequency range, with the exception condition as described in OFCOM IR2030/8/1 & IR2030/8/3.

Device supports MIMO (2T2R) function, including the beamforming capability.

DFS: Slave without radar detection.

The Device markets w/o the antenna, and can be used with the max. gain, type, and impedance design as described in this TCF.

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Documentation lodged for this type examination

Test Reports:

- International Certification Corp.: EQ311701, 20 September 2023
- International Certification Corp.: ER311701AC, 20 September 2023
- International Certification Corp.: ER311701AD, 20 September 2023
- International Certification Corp.: ER311701AE, 20 September 2023
- International Certification Corp.: ER311701AN, 20 September 2023
- International Certification Corp.: ER311701AO, 20 September 2023
- International Certification Corp.: EW311701, 20 September 2023
- International Certification Corp.: EY311701, 20 September 2023
- International Certification Corp.: EA311701, 20 September 2023
- Sporton International Inc.: L311732L100, 28 July 2023

Product Documentation:

- Assembly drawings
- Bill of materials
- Block diagram
- Electrical diagrams
- Internal photos
- External photos
- Manual
- Label and label placement
- Test setup photos
- Risk assessment
- Declaration of the package removal

Technical Standards and Specifications

The product is compliant with:

BS EN 50385	Nov, 2017	
BS EN 50566	October, 2017	
BS EN IEC 62311	Feb, 2020	
BS EN IEC 62368-1:2014+A11:2017		
EN 300 328	July, 2019	V2.2.2
EN 300 440	March, 2017	V2.1.1
EN 301 489-1	November, 2019	V2.2.3
EN 301 489-17	September , 2020	V3.2.4
EN 301 489-3	January, 2023	V2.3.2
EN 301 893	May, 2017	V2.1.1
EN 303 687	June, 2023	V1.1.1

Technical features and characteristics

The product includes the following features and characteristics:

Bluetooth

- Operating frequency range: 2402-2480 MHz (79 channels)
- Maximum output power: 10.11 dBm EIRP average (calculated)
- Maximum antenna gain: 2.4 dBi

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Bluetooth LE

- Operating frequency range: 2402-2480 MHz (40 channels)
- Maximum output power: 9.58 dBm EIRP average (calculated)
- Maximum antenna gain: 2.4 dBi

IEEE 802.11b/g/n/ax (20 MHz)

- Operating frequency range: 2412-2472 MHz (13 channels)
- Maximum output power: 19.44 dBm EIRP average (calculated)
- Maximum antenna gain: 2.4 dBi

IEEE 802.11a/n/ac/ax (20/40/80 MHz)

- Operating frequency range: 5180-5240 MHz (4/2/1 channels)
- Maximum output power: 22.39 dBm EIRP average (calculated)
- Maximum antenna gain: 4.4 dBi

IEEE 802.11a/n/ac/ax (20/40/80 MHz)

- Operating frequency range: 5260-5320 MHz (4/2/1 channels)
- Maximum output power: 22.16 dBm EIRP average (calculated)
- Maximum antenna gain: 4.4 dBi

IEEE 802.11a/n/ac/ax (20/40/80 MHz)

- Operating frequency range: 5500-5700 MHz (11/5/2 channels)
- Maximum output power: 22.37 dBm EIRP average (calculated)
- Maximum antenna gain: 4.4 dBi

SRD Equipment

- Operating frequency range: 5745-5825 MHz (5/2/1 channels)
- Maximum output power: 13.73 dBm EIRP average (calculated)
- Maximum antenna gain: 4.4 dBi

IEEE 802.11a/ax (20/40/80 MHz)

- Operating frequency range: 5955-6415 MHz (24/12/6 channels)
- Maximum output power: 22.45 dBm EIRP max rated
- Maximum antenna gain: 5.2 dBi

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Annex 3 to certificate 232340169/AA/00

The product as described in this type examination includes the following type designations:

- Product description: Sona IF573 802.11ax Wi-Fi 6E Module with Bluetooth 5.4
- Trademark: Laird Connectivity
- Type designation: Sona IF573
- Hardware version: R1.0
- Software version: 18.15 RC1.54 wl0:May 21 2023 19:48:44 version