



Certificate of Radio Equipment in JAPAN 201-220656 / 01

Issued 04 October 2023
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This certificate has THREE Annexes

Kiwa Nederland B.V., operating as Japan Conformity Assessment Body (CAB ID Number: 201), according procedure RD_740, declares that the listed product complies with the Technical Regulations Conformity Certification of Specified Radio equipment (ordinance of MPT N° 37,1981)

Product description: Sona IF573 802.11ax Wi-Fi 6E Module with Bluetooth 5.4
Trademark: Laird Connectivity
Type designation: Sona IF573
Hardware / Software: R1.0 / 18.15 RC1.54 wI0:May 21 2023 19:48:44 version 18.53.212.8(7e2f89f) FWID 01-2b47fc4c

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

This certificate is granted to:

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

Ron Scheepers
Managing director



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[https://www.kiwa.com/nl/en/markets/
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equipment/](https://www.kiwa.com/nl/en/markets/radio-wireless-and-electrical-equipment/)

Chamber of commerce
08090048

- The validity of this Certificate is limited to products, which are equal to the one examined in the type-examination
- When the manufacturer (or holder of this certificate) is placing the product on the Japanese market, the product must be affixed with the following Specified Radio Equipment marking:

**Remarks and observations**

The following conditions are applicable:

Antennas for IEEE 802.11a/b/g/n/ac/ax & Bluetooth:

Dipole antennas, max gain of 2 dBi at 2.4 GHz and max gain of 4 dBi at 5GHz/6GHz,

PIFA antennas, max gain of 2.2 dBi at 2.4 GHz and max gain of 3.9 dBi at 5GHz/6GHz,

PCB Dipole antennas, max gain of 2.4 dBi at 2.4 GHz and max gain of 5.2 dBi at 5GHz/6GHz.

/01 : To add new carrier boards.

Documentation lodged for this type-examination

Test Reports:

- International Certification Corp.: JR311701-01AC, 20 September 2023
- International Certification Corp.: JR311701-01AD, 20 September 2023
- International Certification Corp.: JR311701-01AE, 20 September 2023
- International Certification Corp.: JR311701-01AN, 20 September 2023
- International Certification Corp.: JR311701-01AO, 20 September 2023

Product Documentation:

- Assembly drawings
- Bill of materials
- Block diagram
- Electrical diagrams
- Antenna specifications
- Internal photos
- External photos
- Manual
- Production quality
- Test setup photos

Technical Standards and Specifications

The product shows no non-compliances with:

- Equipment Radio Regulations: 2008 (including amendments)

Chapter I, General Provisions

Chapter II, Transmitting equipment

Chapter III, Receiving Equipment

Chapter IV, section 4.17 article 49.20

Radio equipment specified in:

Item 19, Paragraph 1, Article 2

Item 19-3, Paragraph 1, Article 2

Item 80, Paragraph 1, Article 2

Technical features and characteristics

The product includes the following features and characteristics:

Bluetooth (incl. AFH)

- Operating frequency range: 2402-2480 MHz (79 channels)
- ITU designation: F1D,G1D
- Maximum output power: 0.40 mW/MHz rated

Bluetooth LE_1M

- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: F1D
- Maximum output power: 5.50 mW rated

Bluetooth LE_2M

- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: F1D
- Maximum output power: 5.50 mW rated

IEEE 802.11b

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: G1D
- Maximum output power: 9.40 mW/MHz rated

IEEE 802.11g

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: D1D,G1D
- Maximum output power: 9.40 mW/MHz rated

IEEE 802.11n (HT20)

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: D1D,G1D
- Maximum output power: 9.40 mW/MHz rated

IEEE 802.11ax (HEW20)

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: D1D,G1D
- Maximum output power: 9.42 mW/MHz rated

IEEE 802.11a

- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: D1D,G1D
- Maximum output power: 3.625 mW/MHz rated

IEEE 802.11n (HT20)

- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: D1D,G1D
- Maximum output power: 3.600 mW/MHz rated

IEEE 802.11ac (VHT20)

- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: D1D,G1D
- Maximum output power: 3.625 mW/MHz rated

IEEE 802.11ax (HEW20)

- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: D1D,G1D
- Maximum output power: 3.625 mW/MHz rated

IEEE 802.11n (HT40)

- Operating frequency range: 5190-5230 MHz (2 channels)
- ITU designation: D1D,G1D
- Maximum output power: 1.800 mW/MHz rated

IEEE 802.11ac (VHT40)

- Operating frequency range: 5190-5230 MHz (2 channels)
- ITU designation: D1D,G1D
- Maximum output power: 1.800 mW/MHz rated

IEEE 802.11ax (HEW40)

- Operating frequency range: 5190-5230 MHz (2 channels)
- ITU designation: D1D,G1D
- Maximum output power: 1.81 mW/MHz rated

IEEE 802.11ac (VHT80)

- Operating frequency range: 5210-5210 MHz
- ITU designation: D1D,G1D
- Maximum output power: 0.906 mW/MHz rated

IEEE 802.11ax (HEW80)

- Operating frequency range: 5210-5210 MHz
- ITU designation: D1D,G1D
- Maximum output power: 0.905 mW/MHz rated

IEEE 802.11a

- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: D1D,G1D
- Maximum output power: 3.600 mW/MHz rated

IEEE 802.11n (HT20)

- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: D1D,G1D
- Maximum output power: 3.625 mW/MHz rated

IEEE 802.11ac (VHT20)

- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: D1D,G1D
- Maximum output power: 3.625 mW/MHz rated

IEEE 802.11ax (HEW20)

- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: D1D,G1D
- Maximum output power: 3.625 mW/MHz rated

IEEE 802.11n (HT40)

- Operating frequency range: 5270-5310 MHz (2 channels)
- ITU designation: D1D,G1D
- Maximum output power: 1.800 mW/MHz rated

IEEE 802.11ac (VHT40)

- Operating frequency range: 5270-5310 MHz (2 channels)
- ITU designation: D1D,G1D
- Maximum output power: 1.812 mW/MHz rated

IEEE 802.11ax (HEW40)

- Operating frequency range: 5270-5310 MHz (2 channels)
- ITU designation: D1D,G1D
- Maximum output power: 1.810 mW/MHz rated

IEEE 802.11ac (VHT80)

- Operating frequency range: 5290-5290 MHz
- ITU designation: D1D,G1D
- Maximum output power: 0.900 mW/MHz rated

IEEE 802.11ax (HEW80)

- Operating frequency range: 5290-5290 MHz
- ITU designation: D1D,G1D
- Maximum output power: 0.906 mW/MHz rated

IEEE 802.11a

- Operating frequency range: 5500-5720 MHz (12 channels)
- ITU designation: D1D,G1D
- Maximum output power: 9.980 mW/MHz rated

IEEE 802.11n (HT20)

- Operating frequency range: 5500-5720 MHz (12 channels)
- ITU designation: D1D,G1D
- Maximum output power: 9.950 mW/MHz rated

IEEE 802.11ac (VHT20)

- Operating frequency range: 5500-5720 MHz (12 channels)
- ITU designation: D1D,G1D
- Maximum output power: 9.900 mW/MHz rated

IEEE 802.11ax (HEW20)

- Operating frequency range: 5500-5720 MHz (12 channels)
- ITU designation: D1D,G1D
- Maximum output power: 9.96 mW/MHz rated

IEEE 802.11n (HT40)

- Operating frequency range: 5510-5710 MHz (6 channels)
- ITU designation: D1D,G1D
- Maximum output power: 4.990 mW/MHz rated

IEEE 802.11ac (VHT40)

- Operating frequency range: 5510-5710 MHz (6 channels)
- ITU designation: D1D,G1D
- Maximum output power: 4.990 mW/MHz rated

IEEE 802.11ax (HEW40)

- Operating frequency range: 5510-5710 MHz (6 channels)
- ITU designation: D1D,G1D
- Maximum output power: 4.96 mW/MHz rated

IEEE 802.11ac (VHT80)

- Operating frequency range: 5530-5690 MHz (3 channels)
- ITU designation: D1D,G1D
- Maximum output power: 2.350 mW/MHz rated

IEEE 802.11ax (HEW80)

- Operating frequency range: 5530-5690 MHz (3 channels)
- ITU designation: D1D,G1D
- Maximum output power: 2.5 mW/MHz rated

IEEE 802.11a

- Operating frequency range: 5955-6415 MHz (24 channels)
- ITU designation: D1D,G1D
- Maximum output power: 3.010 mW/MHz rated

IEEE 802.11ax (HEW20)

- Operating frequency range: 5955-6415 MHz (24 channels)
- ITU designation: D1D,G1D
- Maximum output power: 3.000 mW/MHz rated

IEEE 802.11ax (HEW40)

- Operating frequency range: 5965-6405 MHz (12 channels)
- ITU designation: D1D,G1D
- Maximum output power: 1.507 mW/MHz rated

IEEE 802.11ax (HEW80)

- Operating frequency range: 5985-6385 MHz (6 channels)
- ITU designation: D1D,G1D
- Maximum output power: 0.750 mW/MHz rated

The product as described in this Certificate 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 18.53.212.8(7e2f89f) FWID 01-2b47fc4c