



Certificate of Radio Equipment in JAPAN 201-230574 / 00

Issued 29 August 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: 2.4GHz Wi-Fi & BT IoT Module
Trademark: ESPRESSIF
Type designation: ESP8684-MINI-1

Manufacturer: Espressif Systems (Shanghai) Co.,Ltd.
Address: Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park, Shanghai, China
City: Shanghai
Country: China

This certificate is granted to:

Name: Espressif Systems (Shanghai) Co.,Ltd.
Address: Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park, Shanghai, China
City: Shanghai
Country: China

Ron Scheepers
Managing director

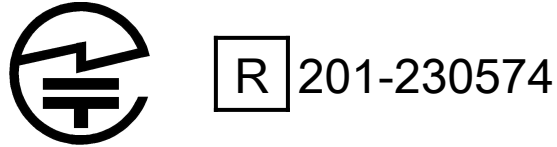


Kiwa Nederland B.V.
Wilmersdorf 50
Postbus 137
7300 AC Apeldoorn
The Netherlands

<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:

PCB antenna with max antenna gain of 3.96 dBi for 2.4 GHz bands.

PCB antenna with max antenna gain of 4.16 dBi for 2.4 GHz IEEE 802.11b band.

Documentation lodged for this type-examination

Test Reports:

- Sporton International Inc. (KunShan): JR360701A, 28 July 2023
- Sporton International Inc. (KunShan): JR360701B, 28 July 2023
- Sporton International Inc. (KunShan): JR360701C, 28 July 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 19-2, Paragraph 1, Article 2

Technical features and characteristics

The product includes the following features and characteristics:

IEEE 802.11b

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: G1D
- Maximum output power: 6.550 mW/MHz rated

IEEE 802.11g

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: D1D,G1D
- Maximum output power: 6.500 mW/MHz rated

IEEE 802.11n (HT20)

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: D1D,G1D
- Maximum output power: 6.500 mW/MHz rated

IEEE 802.11b ch14

- Operating frequency range: 2484-2484 MHz
- ITU designation: G1D
- Maximum output power: 6.00 mW/MHz rated

Bluetooth LE_1M

- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: F1D
- Maximum output power: 5.000 mW rated

Bluetooth LE_2M

- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: F1D
- Maximum output power: 5.000 mW rated

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

- Product description: 2.4GHz Wi-Fi & BT IoT Module
- Trademark: ESPRESSIF
- Type designation: ESP8684-MINI-1