



# Certificate of Radio Equipment in JAPAN 201-230074 / 00

**Issued** 08 February 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:** 2.4G WIFI&BT IoT Module  
**Trademark:** ESPRESSIF  
**Type designation:** ESP32-C3-MINI-1U

**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



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**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:



**R** 201-230074

## Remarks and observations

The following conditions are applicable:

Antennas for IEEE 802.11b/g/n & Bluetooth:

External antenna, max gain of 2.33 dBi at 2.4 GHz

Antennas for IEEE 802.11b ch14:

External antenna, max gain of 2.14 dBi at 2.4 GHz

## Documentation lodged for this type-examination

### Test Reports:

- Sporton International Inc. (KunShan): JR310903A, 06 February 2023
- Sporton International Inc. (KunShan): JR310903B, 06 February 2023
- Sporton International Inc. (KunShan): JR310903C, 06 February 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: 7.47 mW/MHz rated

### IEEE 802.11g

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: D1D,G1D
- Maximum output power: 3.17 mW/MHz rated

### IEEE 802.11n 20 MHz

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: D1D,G1D
- Maximum output power: 2.44 mW/MHz rated

### IEEE 802.11n 40 MHz

- Operating frequency range: 2422-2462 MHz (9 channels)
- ITU designation: D1D,G1D
- Maximum output power: 1.21 mW/MHz rated

### IEEE 802.11b ch14

- Operating frequency range: 2484-2484 MHz
- ITU designation: G1D
- Maximum output power: 6.81 mW/MHz rated

### Bluetooth LE\_1M

- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: F1D
- Maximum output power: 6.64 mW rated

### Bluetooth LE\_2M

- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: F1D
- Maximum output power: 6.90 mW rated

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

- Product description: 2.4G WIFI&BT IoT Module
- Trademark: ESPRESSIF
- Type designation: ESP32-C3-MINI-1U