

Certificate

of
Radio Equipment in JAPAN

No: 201-220894 / 00

Telefication, operating as Conformity Assessment Body (CAB ID Number: 201) with respect to Japan, 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: **ESP32-S3-WROOM-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**

This certificate has THREE Annexes.

Apeldoorn, 26 December 2022

CAB



Ron Scheepers
Managing director





- 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 201-220894

Remarks and observations

The following conditions are applicable:

Radio Module

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

External antenna, max gain of 2.33 dBi at 2.4 GHz

Documentation lodged for this type-examination

Test Reports:

- Sporton International Inc. (KunShan): JR292006A, 22 November 2022
- Sporton International Inc. (KunShan): JR292006B, 22 November 2022
- Sporton International Inc. (KunShan): JR292006C, 22 November 2022

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: 8.50 mW/MHz rated

IEEE 802.11g

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: D1D,G1D
- Maximum output power: 6.49 mW/MHz rated

IEEE 802.11n 20 MHz

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: D1D,G1D
- Maximum output power: 5.09 mW/MHz rated

IEEE 802.11n 40 MHz

- Operating frequency range: 2422-2462 MHz (9 channels)
- ITU designation: D1D,G1D
- Maximum output power: 2.40 mW/MHz rated

IEEE 802.11b ch14

- Operating frequency range: 2484-2484 MHz
- ITU designation: G1D
- Maximum output power: 9.00 mW/MHz rated

Bluetooth LE_1M

- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: F1D
- Maximum output power: 8.50 mW rated

Bluetooth LE_2M

- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: F1D
- Maximum output power: 8.50 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: ESP32-S3-WROOM-1U