

# Certificate

of  
Radio Equipment in JAPAN

No: 201-220052 / 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: **Wi-Fi & Bluetooth Internet of Things Module**  
Trademark: **ESPRESSIF module**  
Type designation: **ESP32-S3-WROOM-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**

This certificate has THREE Annexes.

Apeldoorn, 24 January 2022

**CAB**



David Chen  
Product Assessor





- 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** 201-220052

#### Remarks and observations

The following conditions are applicable:

Antennas for IEEE 802.11b/g/n & Bluetooth:  
PCB antenna, max gain of 3.26 dBi at 2.4 GHz  
PCB antenna, max gain of 3.37 dBi at 802.11b ch 14



## Documentation lodged for this type-examination

### Test Reports:

- Sporton International Inc. (KunShan): JR1N1701A, 21 January 2022
- Sporton International Inc. (KunShan): JR1N1701B, 21 January 2022
- Sporton International Inc. (KunShan): JR1N1701C, 21 January 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:

### Bluetooth LE\_1M

- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: 1M02 F1D
- Maximum output power: 5.484 mW rated

### Bluetooth LE\_2M

- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: 2M01 F1D
- Maximum output power: 5.716 mW rated

### IEEE 802.11b

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 13M0 G1D
- Maximum output power: 7.71 mW/MHz rated

### IEEE 802.11g

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 17M3 D1D,G1D
- Maximum output power: 6.80 mW/MHz rated

### IEEE 802.11n 20 MHz

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 18M2 D1D,G1D
- Maximum output power: 5.61 mW/MHz rated

### IEEE 802.11n 40 MHz

- Operating frequency range: 2422-2462 MHz (9 channels)
- ITU designation: 34M4 D1D,G1D
- Maximum output power: 2.76 mW/MHz rated

### IEEE 802.11b ch14

- Operating frequency range: 2484-2484 MHz
- ITU designation: 18M4 G1D
- Maximum output power: 7.50 mW/MHz rated



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

- Product description: Wi-Fi & Bluetooth Internet of Things Module
- Trademark: ESPRESSIF module
- Type designation: ESP32-S3-WROOM-1