

# Certificate

of  
Radio Equipment in JAPAN

No: 201-171000 / 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 Internet of Things Module**  
Trademark: **WROOM**  
Type designation: **ESP-WROOM-02D**  
Hardware / Software version: **V1.2 / V1.1.7**  
Variants: --

Manufacturer: **ESPRESSIF SYSTEMS (SHANGHAI) PTE LTD**  
Address: **456 Bibo Road, Room A201**  
City: **201203 Shanghai**  
Country: **China**

This statement is granted to:

Name: **ESPRESSIF SYSTEMS (SHANGHAI) PTE LTD**  
Address: **456 Bibo Road, Room A201**  
City: **201203 Shanghai**  
Country: **China**

This statement has **THREE** Annexes.

Zevenaar, 10 November 2017

**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** 201-171000

#### Remarks and observations

The following conditions are applicable:

Antennas:

Internal antenna, max gain of 3.77 dBi at 2.4 GHz

## Documentation lodged for this type-examination

### Test Reports:

- TA Technology (Shanghai) Co., Ltd.: RXA1709-0323RF04R1, 28 October 2017
- TA Technology (Shanghai) Co., Ltd.: RXA1709-0323RF05R1, 28 October 2017

### Product Documentation:

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

## 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) of article 2, paragraph 1

Item (19)-2 of article 2, paragraph 1



## 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: 10M6G1D
- Maximum output power: 4.70 mW/MHz rated

### IEEE 802.11g

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 16M5D1D,G1D
- Maximum output power: 2.25 mW/MHz rated

### IEEE 802.11n 20 MHz

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 17M6D1D,G1D
- Maximum output power: 2.08 mW/MHz rated

### IEEE 802.11b ch14

- Operating frequency range: 2484 MHz (1 channel)
- ITU designation: 10M6G1D
- Maximum output power: 5.22 mW/MHz rated



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

- Product description: Wi-Fi Internet of Things Module
- Trademark: WROOM
- Type designation: ESP-WROOM-02D
- Hardware version: V1.2
- Software version: V1.1.7