

Bay Area Compliance Laboratories Corp.

JAPAN MIC CERTIFICATE OF TYPE APPROVAL

Certificate Number: 211-171102

Certificate Holder: Espressif Systems (Shanghai) PTE Ltd.
Room 204, Building 2, 690 Bibo Road, Pudong Dist., Shanghai, China

Manufacturer: Espressif Systems (Shanghai) PTE Ltd.

Model Number(s): ESP-WROOM-32D, ESP32-WROOM-32D
Article 2 Paragraph 1, Item 19, Item 19-2

Type of Equipment: Low Power Data Communications System in the 2.4 GHz Band
Specified Radio Equipment Specified in Article 38-2-2,
Paragraph 1, Item 1 of the Radio Law

Category: Bluetooth/BLE: 2402-2480 MHz

Frequency Range: Wi-Fi: 2412-2472 MHz, 2422-2462 MHz, 2484 MHz (802.11b CH 14)

Modulation(s): Bluetooth: GFSK, $\pi/4$ -DQPSK, 8DPSK; BLE: GFSK
Wi-Fi: DSSS, OFDM

Channel Spacing: Bluetooth: 1 MHz (79 CH); BLE: 2 MHz (40 CH)
Wi-Fi: 5 MHz (13 CH @ 20 MHz BW, 9 CH @ 40 MHz BW)

Type of Emissions: Bluetooth/BLE: F1D; Wi-Fi: G1D, D1D
Bluetooth: 0.03 mW/MHz; BLE: 1.07 mW
Wi-Fi: 6.5 mW/MHz (802.11b CH 1-CH 13 & CH 14)
1.2 mW/MHz (802.11g), 1.1 mW/MHz (802.11n20),
0.3 mW/MHz (802.11n40)

Antenna Output Power:

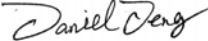
Antenna Type: PCB Antenna, 3.74 dBi

Standards Applied: MIC Notices NO. 88 Annex 1, 43, 44
B18020115, RSHA18016003-24A

Remark: B17110314, RSHA171020001-00A/-00B/-00C

Registered Certification Body: RCB ID: 211
Bay Area Compliance Laboratories Corp.
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This certificate is issued to the applicant for the product(s) listed above which is (are) compliant with the Radio Law (Law No. 131, 1950) and Amendments.

Authorized by: 
Daniel Deng, Certifier



Issue Date: 2018-03-04

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