

Bay Area Compliance Laboratories Corp.

**JAPAN MIC
CERTIFICATE OF TYPE APPROVAL**

Certificate Number: 211-180613

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): ESP32-WROVER, ESP32-WROVER-I

Type of Equipment: Article 2 Paragraph 1, Item 19, Item 19-2
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: 0.2 mW/MHz; BLE: 1.5 mW
Wi-Fi: 8.0 mW/MHz (802.11b CH1-13), 1.0 mW/MHz (802.11b CH14)
3.5 mW/MHz (802.11g/n20), 1.5 mW/MHz (802.11n40)

Antenna Output Power:

Antenna Type: PCB Antenna, 2.3 dBi; IPEX External, 2.33 dBi

Standards Applied: MIC Notices NO. 88 Annex 1, 43, 44

Remark: B1806157, RSHA180524001-24A, RSHA180524001-24B,
RSHA180524001-24C, RSHA180524001-24D

Registered Certification Body: RCB ID: 211
Bay Area Compliance Laboratories Corp.
1274 Anvilwood Ave., Sunnyvale, CA 94089, USA
Tel: 1-(408)-732-9162 Fax: 1-(408)-732-9164
www.baclcorp.com

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*
Daniel Deng, Certifier



Issue Date: 2018-06-28

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