

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
Article 2 Paragraph 1, Item 19

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
Wi-Fi: 2412-2472 MHz, 2422-2462 MHz, 2484MHz

Frequency Range: Bluetooth: GFSK, $\pi/4$ -DQPSK, 8DPSK; BLE: GFSK
Wi-Fi: DSSS, OFDM

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

Channel Spacing: Bluetooth/BLE: F1D; Wi-Fi: G1D, D1D
Bluetooth: 0.03 mW/MHz; BLE: 1.07 mW
Wi-Fi: 6.5 mW/MHz (802.11b), 1.2 mW/MHz (802.11g)
1.1 mW/MHz (802.11n20), 0.3 mW/MHz (802.11n40)

Antenna Output Power: PCB Antenna, 3.74 dBi

Antenna Type: MIC Notices NO. 88 Annex 1, 43

Standards Applied: B17110314, RSHA171020001-00A/-00B/-00C/-00D

Remark: RCB ID: 211

Registered Certification Body: Bay Area Compliance Laboratories Corp.
1274 Anvilwood Ave., Sunnyvale, CA 94089, USA
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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: 2018-01-16

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