

JAPAN MIC
TYPE CERTIFICATION FOR RADIO EQUIPMENT
CERTIFICATE NUMBER 217-204070

CERTIFICATE HOLDER:

Company Name	:	Espressif Systems (Shanghai) Co.,Ltd.
Postal Address	:	Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park, Shanghai, China
Representative Name	:	Mia Zhou

PRODUCT DESCRIPTION

Product Name	:	Wi-Fi & Bluetooth Internet of Things
Manufacturer Name	:	Espressif Systems (Shanghai) Co.,Ltd.
Trademark/Trade Name	:	ESPRESSIF
Model Number(s)	:	ESP32-WROOM-32E
Type of Radio Equipment	:	Low power data communications system in the 2.4GHz band (Module)
Category	:	Unlicensed Device (Act 38-2-2.1.1)


PRODUCT SPECIFICATIONS

Frequency Range (MHz)	Channel Spacing	Antenna output power	Class of Emissions	Technology	Antenna Type/Gain
2402-2480	1MHz	0.12mW/MHz	F1D, G1D	BT	PCB, 2.99dBi
2402-2480	2MHz	3.35mW/MHz	F1D	BLE	PCB, 2.99dBi
2412-2472	5MHz	7.61mW/MHz	F1D, G1D	802.11b	PCB, 3.28dBi
2412-2472	5MHz	7.56mW/MHz	G1D, D1D	802.11g, n(HT20)	PCB, 3.28dBi
2422-2462	5MHz	2.67mW/MHz	G1D, D1D	802.11n(HT40)	PCB, 2.99dBi
2484	5MHz	7.38mW/MHz	F1D, G1D	802.11b	PCB, 3.42dBi

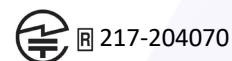
Based on the evidence presented in the Technical Documentation, TIMCO Engineering, Inc., as a Registered Certification Body (217) recognized by Japan MIC, declares that the listed product is in conformity with the Technical Regulations Conformity Certification of Specified Radio Equipment, and the following Technical Specifications:

Type of Radio Equipment	Technical Specification
Low power data communications system in the 2.4GHz band	Article 2, Paragraph 1, Item 19

RECOGNIZED CERTIFICATION BODY

Certificate issued by	:	TIMCO Engineering, Inc. (217)
Certificate Number	:	217-204070
Name and Signature	:	Bruno Clavier  Date : August 3, 2020

The products placed on the Japanese market must bear the following marking:



This certificate is limited to products that are identical to the type assessed for this application for certification and is issued under the provision that TIMCO Engineering Inc. nor its subsidiary companies accept any liability concerning the contents of this document other than forced by law. Reproduction of the Certificate (with Annex) in full is allowed. Reproduction of parts of this certificate may only be allowed by written permission of TIMCO Engineering, Inc.