

EU TYPE EXAMINATION CERTIFICATE

Issue Date: March 16, 2023

Applicant:

Espressif Systems (Shanghai) Co.,Ltd.
Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park,
Shanghai, China, 201203

Manufacturer:

Same as Applicant

Model Number/Name: ESP8684-WROOM-02UC

Product Description:

Wi-Fi & Bluetooth Internet of Things Module

Serial Number:

N/A

Hardware version:

V1.0

Software version:

V1.1.3.4

Frequency Band(s):

WIFI 2.4G: 2412-2472MHz (TX/RX)

Bluetooth LE: 2402MHz~2480MHz(TX/RX)

Transmit Power Range(s):

WIFI 2.4G:17.53dBm conducted power

Bluetooth LE: 15.85dBm conducted power

Modulation Type(s):

WIFI 2.4G:DSSS, OFDM

BLE :GFSK

Channel Spacing(s):

WIFI 2.4G:5MHz

Bluetooth LE: 2MHz

Duty Cycle:

N/A

Microprocessor Model Number(s):

N/A

Antenna Type(s) and Gain(s):

External Antenna

2.33 dBi for Wi-Fi /Bluetooth LE

Essential Requirement		Applied Specifications/Standards	Documentary Evidence	Result
Art. 3.1(a)	Safety	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020	Test Report	Pass
Art. 3.1 (a)	Health	EN 50665:2017 EN IEC 62311:2020	Test Report	Pass
Art. 3.1(b)	EMC	EN 55032: 2015 + A11: 2020 EN 55035: 2017 + A11: 2020 ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4	Test Report	Pass
Art. 3.2	Radio	ETSI EN300 328 V2.2.2	Test Report	Pass
Art. 3.3(g)	Emergency Service	N/A	N/A	N/A

Examination Result: Based on the reports provided and the information therein, the equipment referenced above is compliant to these specifications.

The scope of evaluation relates to the submitted documents only.

This Certificate is issued in accordance with Annex III, Module B, of the RE directive 2014/53/EU of 16 April 2014 and is only valid in conjunction with the attached Annex.



Jackson Yang
Technical Reviewer

REDCA Program, Eurofins Electrical and Electronic Testing NA, Inc.

Project Number: 2230-3-2023-126109

Technical Construction File (TCF) Details

<i>To demonstrate conformity with Article 3.1(a) Health</i>		
Applied Standards		
EN 50665:2017		
EN IEC 62311:2020		
Report or Certificate No.	Issue Date	Issued by
R2301A0015-M1	03/13/2023	TA Technology(Shanghai) Co., Ltd.
<i>To demonstrate conformity with Article 3.1(a) Safety</i>		
Applied Standards		
IEC 62368-1:2018		
EN IEC 62368-1:2020+A11:2020		
Report or Certificate No.	Issue Date	Issued by
R2301A0015-L1	03/13/2023	TA Technology(Shanghai) Co., Ltd.
<i>To demonstrate conformity with Article 3.1(b) EMC</i>		
Applied Standards		
EN 55032: 2015 + A11: 2020		
EN 55035: 2017 + A11: 2020		
ETSI EN 301 489-1 V2.2.3		
ETSI EN 301 489-17 V3.2.4		
Report or Certificate No.	Issue Date	Issued by
R2301A0015-E1	03/13/2023	TA Technology(Shanghai) Co., Ltd.
<i>To demonstrate conformity with Article 3.2 Spectrum Efficiency</i>		
Applied Standards		
ETSI EN300 328 V2.2.2		
Report or Certificate No.	Issue Date	Issued by
R2301A0015-R1	03/13/2023	TA Technology(Shanghai) Co., Ltd.
<i>To demonstrate conformity with Article 3.3 Emergency Service</i>		
Applied Standards		
N/A		
Report or Certificate No.	Issue Date	Issued by
N/A	N/A	N/A