



EU – TYPE EXAMINATION CERTIFICATE
RADIO EQUIPMENT DIRECTIVE 2014/53/EU
Annex III Module B


MANUFACTURER

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PRODUCT DESCRIPTION

Trademark/Trade Name	:	ESPRESSIF
Model Number	:	ESP8685-WROOM-04
Product Description	:	Wi-Fi & Bluetooth Internet of Things Module

NOTIFIED BODY

Certificate issued by	:	Notified Body 1177, TIMCO Engineering, Inc.		
Certificate number	:	E1177-210728		
Name and Signature	:	Bruno Clavier		Date: July 6, 2021

The device shall be marked as follows:



Based on the evidence presented in the Technical Documentation, TIMCO Engineering, Inc., as appointed Notified Body, has issued this EU-Type Examination Certificate in accordance with Annex III Module B. The product described appears to be in conformity with the essential requirements Article 3.1(a), 3.1(b), and 3.2 of RED 2014/53/EU. This certificate relates only to the documents as provided to Timco Engineering, Inc. and is valid up to (1) the date of cessation of presumption of conformity of any of the superseded standards which were used for testing this product and assessed by Notified Body or (2) the date of modifications to the approved type that may affect the conformity of the apparatus with the essential requirements of this Directive or the conditions for validity of that certificate, whichever comes first.

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Date: July 6, 2021

PRODUCT SPECIFICATIONS

Intended Use / Category	: 802.11 b WIFI
RF output power	: 18.06dBm(EIRP)
Frequency range (MHz)	: 2412-2472 MHz
Modulation	: DSSS
Antenna type	: PCB Antenna 3.26dBi

Intended Use / Category	: 802.11 g/n WIFI
RF output power	: 19.83dBm(EIRP)
Frequency range (MHz)	: 2412-2472 MHz
Modulation	: OFDM
Antenna type	: PCB Antenna 3.26dBi

Intended Use / Category	: BLE
RF output power	: 8.30dBm(EIRP)
Frequency range (MHz)	: 2402-2480MHz
Modulation	: GFSK
Antenna type	: PCB Antenna 3.26dBi

According to the Technical Documentation compiled by the Manufacturer, the following standards were used:

ESSENTIAL REQUIREMENTS

Essential Requirement	Standard Number & Version
Radio (Article 3.2)	: ETSI EN300 328 V2.2.2
EMC (Article 3.1b)	: 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 EN IEC 61000-3-2: 2019 EN 61000-3-3:2013+A1:2019
Safety (Article 3.1a)	: EN 50665:2017, EN IEC 62311:2020
Safety (Article 3.1a)	: EN IEC 62368-1:2020+A11:2020

TECHNICAL DOCUMENTATION

Item	Exhibit Description	
1	Copy of the Declaration of Conformity (Draft acceptable)	<input checked="" type="checkbox"/>
2	Agency Letter / Authorization: Letter from Manufacturer/Applicant authorizing the agent and/or representative, if the application is filed by someone other than the Manufacturer.	<input checked="" type="checkbox"/>
3	Attestation letter demonstrating compliance with Article 10(2)/Regulations 8	<input checked="" type="checkbox"/>
4	Letter of Attestation and/or exhibits for compliance with Article 10(10)/Regulations 14 (i.e. info to be placed on the packaging with user instructions)	<input type="checkbox"/>
5	Operational Description of the product/device.	<input checked="" type="checkbox"/>

Item	Exhibit Description (Cont.)		
6	External Photos of the device		<input checked="" type="checkbox"/>
7	Internal Photos of the device		<input checked="" type="checkbox"/>
8	RED Annex VI Point 8/RER Schedule 6 Point 8 - Where applicable, a description/or declaration statement about the versions of software or accessories and components affecting compliance with essential requirements. Alternatively, indicate whether the manufacturer intends to allow the end-user to change or modify the hardware and software.		<input checked="" type="checkbox"/>
9	User manual and information and installation instructions		<input checked="" type="checkbox"/>
10	Conceptual design and manufacturing drawings, and schemes of components, sub-assemblies, circuits, and other relevant similar elements (i.e. Schematics)		<input checked="" type="checkbox"/>
11	Block Diagrams		<input checked="" type="checkbox"/>
12	Descriptions and explanations necessary for the understanding of those drawings and schemes and the operation of the radio equipment (i.e. a Circuit Description where applicable)		<input checked="" type="checkbox"/>
13	RED Annex III module B/RER Schedule 3 module B - Analysis and assessment of the risk(s) (See TGN 30 for guidance)		<input checked="" type="checkbox"/>
14	Modification/Standard Update/Applicant or Manufacturer info change letter explaining the changes to the existing version of the product along with supporting exhibits (e.g., photos, schematics, new applicant details, etc.) Applicable for Product Modifications, Applicant Name Change, Add Model, and Standard Update.		<input type="checkbox"/>
15	Copy of the EU/UK-type examination certificate and annexes as delivered by other notified bodies involved in the conformity assessment (e.g., original certificates in case of product modifications, modules certificates, etc.) Where applicable.		<input type="checkbox"/>
16	Test Reports		<input checked="" type="checkbox"/>
	Radio / EMC / Health / Safety	Test Report Number	Issue Date/ Rev. No
	Radio	R2105A0443-R1	Jun. 29, 2021
	EMC	R2105A0443-E1	Jun. 29, 2021
	Health	R2105A0443-M1V1	Jul. 05, 2021 / Rev.1
	Safety	R2105A0443-L1	Jul. 02, 2021