

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-03
Product Description	:	Wi-Fi & Bluetooth Internet of Things Module

NOTIFIED BODY

Certificate issued by	:	Notified Body 1177, TIMCO Engineering, Inc.	
Certificate number	:	E1177-210818	
Name and Signature	:	Bruno Clavier 	Date: July 23, 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to Timco Engineering, Inc. and is valid up to (1) the date of cessation of presumption of conformity of any of the superseded standards which were used for testing this product and assessed by Notified Body or (2) the date of modifications to the approved type that may affect the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.

<p>TIMCO ENGINEERING, INC. P.O. BOX 370 NEWBERRY, FL 32669 www.timcoengr.com</p>	<p>This Certificate 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.</p>
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PRODUCT SPECIFICATIONS

Intended Use / Category	: 802.11 b WIFI
RF output power	: 19.32dBm (EIRP)
Frequency range (MHz)	: 2412-2472 MHz
Modulation	: DSSS
Antenna type	: PCB Antenna

Intended Use / Category	: 802.11 g/n WIFI
RF output power	: 19.89dBm (EIRP)
Frequency range (MHz)	: 2412-2472 MHz
Modulation	: OFDM
Antenna type	: PCB Antenna

Intended Use / Category	: BLE
RF output power	: 9.66dBm (EIRP)
Frequency range (MHz)	: 2402-2480MHz
Modulation	: GFSK
Antenna type	: PCB Antenna

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
Health (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 is acceptable)	<input checked="" type="checkbox"/>
2.	Pictogram exhibit for the packaging to satisfy the RED 10(10). A Letter of Attestation and/or exhibits for compliance with Article 10(10)/Regulations 14 is acceptable.	<input type="checkbox"/>
3.	Operational Description of the product/device.	<input checked="" type="checkbox"/>
4.	External Photos of the device	<input checked="" type="checkbox"/>
5.	Internal Photos of the device	<input checked="" type="checkbox"/>
6.	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 type="checkbox"/>
7.	User manual and information and installation instructions	<input checked="" type="checkbox"/>
8.	Schematic drawings.	<input checked="" type="checkbox"/>
9.	Block Diagrams	<input checked="" type="checkbox"/>
10.	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"/>
11.	Risk Assessment. 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"/>
12.	If Applicable: 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"/>
13.	If Applicable: Previous 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"/>
14.	Test Reports	<input checked="" type="checkbox"/>
	Radio / EMC / Health / Safety	Test Report Number
	Radio	R2105A0441-R1
	EMC	R2105A0441-E1
	Health	R2105A0441-M1
	Safety	R2105A0441-L1
		Issue Date/ Rev. No
		July 19, 2021
		July 9, 2021
		July 9, 2021
		July 9, 2021