



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

**MANUFACTURER**

Name	:	ESPRESSIF SYSTEMS (SHANGHAI) PTE LTD
Address	:	Room 204, Building 2, 690 Bibo Road, Zhangjiang Hi-tech Park, Shanghai, China
Contact Name & Title	:	Minjie Cai, Marketing Manager
Phone number & Email	:	(8621) 61062057, caiminjie@espressif.com

**AUTHORIZED REPRESENTATIVE**

Name	:	n/a
Address	:	n/a
Contact Name	:	n/a
Phone number & Email	:	n/a

**PRODUCT DESCRIPTION**

Trademark/Trade Name	:	WROOM
Model Number	:	ESP-WROOM-02
Product Description	:	Wi-Fi Internet of Things Module

**TECHNICAL DOCUMENTATION**

Identification	:	ESP-WROOM-02			
Signed by (Name & Title)	:	Minjie Cai, Marketing Manager	Date	:	April 22, 2017
Company Name	:	ESPRESSIF SYSTEMS (SHANGHAI) PTE LTD			

**NOTIFIED BODY**

Certificate issued by	:	Notified Body 1177, TIMCO Engineering, Inc.			
Certificate number	:	TCF-672CC17			
Name and Signature	:	Bruno Clavier <i>Bruno Clavier</i>	Date	:	May 9, 2017

The device shall be marked as follows: **CE** (Note: It is no longer allowed to use the Notified Body number next to the CE marking under conformity procedures of EU-Type Examination - Annex III)

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(b) and 3.2 of RED 2014/53/EU. This certificate is only valid in conjunction with the related Evaluation Report. This certificate is valid up to (1) the date of cessation of presumption of conformity of any of the superseded standards which were used for testing this product and assessed by Notified Body or (2) the date of modifications to the approved type that may affect the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.

**TIMCO ENGINEERING, INC.**  
P.O. BOX 370  
NEWBERRY, FL 32669  
www.timcoengr.com

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.



**EU – TYPE EXAMINATION CERTIFICATE**  
**ANNEX 1**  
**TCF-672CC17**

Date: October 24, 2018

**PRODUCT SPECIFICATIONS**

Intended Use / Category	: 802.11b/g/n (HT20)
RF output power (EIRP)	: 11b:67.5 mW and 11g: 71.1 mW, 11n (HT20) 56.5 mW
Frequency range (MHz)	: 2412-2472
Modulation	: DSSS (BPSK/QPSK/CCK) and OFDM (BPSK/QPSK/16QAM/64QAM)
Antenna type	: Integral

According to the Technical Documentation compiled by the Manufacturer, this radio equipment was assessed for compliance with the following standards, which were applied in full:

**ESSENTIAL REQUIREMENTS ASSESSED**

Aspects	Standard Number
Radio	: ETSI EN300 328 V2.1.1
EMC	: Draft ETSI EN 301 489-1 V2.2.0 Draft ETSI EN 301 489-17 V3.2.0

**CERTIFICATE CONDITIONS:**

This module may not be sold to the general public. This module is restricted to OEM installation only and must not be incorporated into any other device or system without retesting for compliance as multi-radio and combined equipment. OEM Integrators and Host manufacturers are ultimately responsible for the compliance of the Host + Module. The final product must be reassessed against all applicable essential requirements of the RED before it can be placed on the EU market. The module manufacturer is responsible for providing specific instructions to OEM and Host manufacturers about the retesting and reassessment of the final product against applicable essential requirements.

**LIST OF DOCUMENTS REVIEWED**

Item	Exhibit Description	Exhibit Name/Number (or file name)
1.	Copy of the Declaration of Conformity	esp-wroom-02_declaration-of-conformity
2.	Representative authorization letter from Manufacturer (if relevant)	esp-wroom-02_poa
3.	Attestation explaining compliance with Article 10(2) and 10(10) substantiated by evidence of compliance (i.e. info on packaging completed with users instructions)	esp-wroom-02_attestation-declaration-satement
4.	A general description of the radio equipment	TCF Identification ESP-WROOM-02 (December 8, 2016, July 12, 2016, and Original TCF April 9, 2016)
5.	Photographs or illustrations showing external features, marking and internal layout	TCF Identification ESP-WROOM-02 (December 8, 2016, July 12, 2016, and Original TCF April 9, 2016)
6.	Versions of software or firmware affecting compliance with essential requirements	esp-wroom-02_declaration-of-conformity
7.	User information and installation instructions	TCF Identification ESP-WROOM-02 (December 8, 2016, July 12, 2016, and Original TCF April 9, 2016)

Item	Exhibit Description	Exhibit Name/Number (or file name)
8.	Conceptual design and manufacturing drawings and schemes of components, sub-assemblies, circuits and other relevant similar elements	TCF Identification ESP-WROOM-02 (December 8, 2016, July 12, 2016, and Original TCF April 9, 2016)
9.	Descriptions and explanations necessary for the understanding of those drawings and schemes and the operation of the radio equipment	TCF Identification ESP-WROOM-02 (December 8, 2016, July 12, 2016, and Original TCF April 9, 2016)
10.	Where the conformity assessment module in Annex III has been applied, copy of the EU-type examination certificate and its annexes as delivered by the notified body involved	esp-wroom-02_risk-assessment
11.	Results of design calculations made, examinations carried out, and other relevant similar elements	N/A
12.	Test reports	rxal704-0101emc-lexin_esp8826 rxal704-0101rf_lexin_esp8826

**NOTES:**

- (1) **Manufacturer:** The manufacturer is any natural or legal person who manufactures a product or has a product designed or manufactured, **and places it on the market under his own name or trademark.**
- (2) **Authorized Representative:** Irrespectively of whether he is established in the EU or not, the manufacturer may appoint **an authorized representative in the Union** to act on his behalf in carrying out certain tasks.