



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

MANUFACTURER

| | | | |
|------------------------|--|--|--|
| Name : | ESPRESSIF SYSTEMS (SHANGHAI) CO., LTD. | | |
| Address : | Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park, Shanghai, China | | |
| Contact Name & Title : | Minjie Cai / Marketing Manager | | |
| Phone number & Email : | (8621) 61062057, caiminjie@espressif.com | | |

PRODUCT DESCRIPTION

| | | | |
|------------------------|---------------------------------|--|--|
| Trademark/Trade Name : | ESPRESSIF | | |
| 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 : | July 10, 2019 |
| Company Name : | ESPRESSIF SYSTEMS (SHANGHAI) CO., LTD. | | |

NOTIFIED BODY

| | | | |
|-------------------------|--|--------|---------------|
| Certificate issued by : | Notified Body 1177, TIMCO Engineering, Inc. | | |
| Certificate number : | TCF-1824CC19 (Original TCF-672CC17 April 22, 2017) | | |
| Name and Signature : | Bruno Clavier <i>Bruno Clavier</i> | Date : | July 18, 2019 |

The device shall be marked as follows: **CE**

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 This certificate is valid up to (1) the date of cessation of presumption of conformity of any of the superseded standards which were used for testing this product and assessed by Notified Body or (2) the date of modifications to the approved type that may affect the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.
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**EU – TYPE EXAMINATION CERTIFICATE
ANNEX 1
TCF-1824CC19**

Date: July 18, 2019

PRODUCT SPECIFICATIONS

| | |
|---------------------------|--|
| Intended Use / Category : | 802.11b/g/n (HT20) |
| RF output power : | 11b:67.5mW and 11g: 71.1mW ,11n (HT20): 56.5mW indicate EIRP |
| 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 |

LIST OF DOCUMENTS REVIEWED

| Item | Exhibit Description | | |
|------|--|-------------------------------------|---------------|
| 1. | Copy of the Declaration of Conformity | <input checked="" type="checkbox"/> | |
| 2. | Agent/Representative authorization letter from Manufacturer (if application is filed by someone other than Manufacturer) | <input checked="" type="checkbox"/> | |
| 3. | Attestation letter for compliance with Article 10(2) | <input checked="" type="checkbox"/> | |
| 4. | Attestation letter and/or exhibits for compliance with Article 10(10) (i.e. info on packaging completed with users instructions) | <input checked="" type="checkbox"/> | |
| 5. | A general description of the radio equipment (e.g. Operational Description) | <input checked="" type="checkbox"/> | |
| 6. | Photographs or illustrations showing external features, marking and internal layout | <input checked="" type="checkbox"/> | |
| 7. | RED Annex VI Point 8 - Versions of software or firmware affecting compliance with essential requirements | <input checked="" type="checkbox"/> | |
| 8. | User information and installation instructions | <input checked="" type="checkbox"/> | |
| 9. | Conceptual design and manufacturing drawings and schemes of components, sub-assemblies, circuits and other relevant similar elements | <input checked="" type="checkbox"/> | |
| 10. | Descriptions and explanations necessary for the understanding of those drawings and schemes and the operation of the radio equipment | <input checked="" type="checkbox"/> | |
| 11. | RED Annex III module B - Analysis and assessment of the risk(s) | <input checked="" type="checkbox"/> | |
| 12. | 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 | <input checked="" type="checkbox"/> | |
| 13. | Results of design calculations made, examinations carried out, and other relevant similar elements | <input type="checkbox"/> | |
| 14. | Test reports | <input checked="" type="checkbox"/> | |
| | Item | Report No. | Issue Date |
| | Radio | R1907A0388-R1 | July 17, 2019 |
| | EMC | R1907A0388-E1 | July 17, 2019 |