

TIMCO ENGINEERING, INC.

849 NW State Road 45
Newberry, Florida 32669

www.timcoengr.com

(352) 472-5500 CB@timcoengr.com

November 23, 2020

Job Number: 4154-20
Radio Cert. No.: IC: 21098-ESPS2MINI1

ESPRESSIF SYSTEMS (SHANGHAI) CO., LTD.
Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park,
Shanghai, China (201203)

Attention: Mia Zhou

Dear Espressif Systems (Shanghai) Co., Ltd.:

We have reviewed the test report and related documents, and are pleased to advise that this device meets our procedural and specification requirements for certification. The field offices have been notified.

The assigned certification number and the model number must be shown on each equipment model. This certification identification information may be shown on the equipment model identification plate or on a separate label that shall be indelible and tamper proof. The certification number shall be prefixed with the letters "IC:". Radio equipment is certified as described on the attached certification certificate.

Certificate(s) are attached for the following HVIN/ model(s):

ESP32-S2-MINI-1, ESP32-S2-MINI-1U

Please feel free to contact us if you have any questions or comments.

Sincerely,

Timco Engineering, Inc.

Canadian Certification

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Job No. ➤ 4154-20

TECHNICAL ACCEPTANCE CERTIFICATE

Certification No.

➤ IC: 21098-ESPS2MINI1

Issued To ➤ ESPRESSIF SYSTEMS
(SHANGHAI) CO., LTD.
Suite 204, Block 2, 690 Bibo Road,
Zhang Jiang Hi-Tech Park, Shanghai,
China (201203)

Tested By TA Technology(Shanghai) Company, Limited
Company No.: 8510A
No.145, Jintang Rd, Tangzhen IndustryPark, Pudong
xukai@ta-shanghai.com

Type of Equipment

- Wi-Fi device
- Modular Approval

Type of Service

- New Family Certification

Hardware Version Id Number (HVIN)

- ESP32-S2-MINI-1
- ESP32-S2-MINI-1U

Firmware Version Id Number (FVIN)

- V1.1.3.0

Product Marketing Name: (PMN)

- ESP32-S2-MINI-1
- ESP32-S2-MINI-1U

Host Marketing (HMN)

- N/A

FREQUENCY RANGE	EMISSION DESIGNATIONS NECESSARY BANDWIDTH & EMISSION CLASSIFICATION	R.F. POWER	ANTENNA INFO	SPECIFICATION/ ISSUE & DATE	
2412-2462MHz	13M4G1D	0.191W	PCB Antenna, 3.71dBi	RSS-247	Issue 2; Feb.17
2412-2462MHz	17M9D1D	0.133W	PCB Antenna, 3.71dBi	RSS-247	Issue 2; Feb.17
2422-2452MHz	36M7D1D	0.145W	PCB Antenna, 3.71dBi	RSS-247	Issue 2; Feb.17
2412-2462MHz	13M4G1D	0.139W	IPEX Antenna, 2.33dBi	RSS-247	Issue 2; Feb.17
2412-2462MHz	17M9D1D	0.097W	IPEX Antenna, 2.33dBi	RSS-247	Issue 2; Feb.17
2422-2452MHz	36M7D1D	0.105W	IPEX Antenna, 2.33dBi	RSS-247	Issue 2; Feb.17

Note1: This equipment also complies with RSS-102, Issue 5 (March 2015) and RSS-Gen, Issue 5 (March 2019)

Canadian Certification

Certification of equipment means only that the equipment has met the requirements of the above-noted specification. Licence applications, where applicable to use certified equipment, are acted on accordingly by the ISED issuing office and will depend on the existing radio environment, service and location of operation. This certificate is issued on condition that the holder complies and will continue to comply with the requirements and procedures issued by ISED. The equipment for which this certificate is issued shall not be manufactured, imported, distributed, leased, offered for sale or sold unless the equipment complies with the applicable technical specifications and procedures issued by ISED.

I hereby attest that the subject equipment was tested and found in compliance with the above-noted specifications.

ISSUED UNDER THE AUTHORITY OF MINISTER OF INDUSTRY
DÉLIVRÉ AVEC L'AUTORISATION DU MINISTRE DES INDUSTRIES

DATE: November 23, 2020

La certification de l'équipement signifie uniquement que l'équipement a satisfait aux exigences de la spécification susmentionnée. Les demandes de licence, le cas échéant pour utiliser un équipement certifié, sont traitées en conséquence par le bureau émetteur d'ISED et dépendront de l'environnement radio, du service et du lieu d'exploitation existants. Ce certificat est délivré à condition que le titulaire se conforme et continuera de se conformer aux exigences et procédures émises par ISED. L'équipement pour lequel ce certificat est délivré ne doit pas être fabriqué, importé, distribué, loué, mis en vente ou vendu à moins que l'équipement ne soit conforme aux spécifications et procédures techniques applicables émises par ISED.

J'atteste par la présente que le matériel a fait l'objet d'essai et jugé conforme à la spécification ci-dessus.



Bruno Clavier, General Manager