

*Eurofins Electrical and Electronic Testing NA, Inc. is part of the Eurofins Electrical & Electronics (E&E) global compliance network*

THE FOLLOWING EQUIPMENT HAS BEEN TESTED  
AND CERTIFIED UNDER  
INNOVATION, SCIENCE AND ECONOMIC DEVELOPMENT CANADA

RSS-247 Issue 2 February 2017  
RSS-102 Issue 5 February 2021  
RSS-Gen Issue 5 February 2021

# CB

Issued By:

**Eurofins Electrical and Electronic Testing NA, Inc.**

914 W. Patapsco Avenue  
Baltimore, Maryland 21230  
Laboratory Number: 2043A

Equipment Certification is hereby issued to the Identified Certificate Holder and is VALID ONLY for the equipment identified herein.  
La certification du matériel est distribuée à la Société identifiée et est VALIDE SEULEMENT pour l'équipement identifié ci-dessous.  
NOT TRANSFERABLE / PAS TRANSMISSIBLE

**FILE/CERTIFICATE NUMBER: 1464-10-2022-122244**

**CERTIFICATION NUMBER: IC: 21098-ESP32MINII**

**Issued to/Délivré a:** Espressif Systems (Shanghai) Co.,Ltd.td.  
**Date Issued/ Date de publication:** 10/7/2022  
**Address/Adresse:** Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park, Shanghai, China

**Nature of Application/Nature d'Application:** New Single Certification  
**Equipment Description/Genre de Matériel:** Wi-Fi device  
**Type of Radio Equipment/catégorie du matériel certifié:** Wireless Local Area Network Device  
**Equipment Category/Catégorie de Matériel:** Category I

**Hardware Version Identification Number (HVIN)/Numéro d'identification de la version du matériel (NIV du matériel informatique):** ESP32-MINI-1U  
**Product Marketing Name (PMN)/Nom de Marque du Produit (NMP):** ESP32-MINI-1U  
**Firmware Version Identification Number (FVIN) / Numéro d'identification de la version du micrologiciel ((NIV du micrologiciel):** V171  
**Hosting Marketing Name (HMN)/nom de marque de l'hôte (NMH):** N/A

**Conducted RF Power or Field Strength/Puissance H.F.:** 0.028 W, 0.045 W, 0.045 W, 0.039 W, 0.009 W, 0.015 W, 0.015 W, 0.006 W

**Frequency Range/Bande de Fréquences:** 2412-2462 MHz, 2412-2462 MHz, 2412-2462 MHz, 2422-2452 MHz, 2402-2480 MHz, 2402-2480 MHz, 2402-2480 MHz, 2402-2480 MHz

**Bandwidth(s)/ largeurs de bande :** 13192 kHz, 16577 kHz, 17400 kHz, 34711 kHz, 836 kHz, 1193 kHz, 1195 kHz, 1023 kHz

**Emission Designations/Genre D'Émission:** 13M2G1D, 16M6D1D, 17M4D1D, 34M7D1D, 836KF1D, 1M19G1D, 1M20G1D , 1M02F1D

**Antenna Information/ l'information d'antenne:** IPEX antenna

**Test Lab/ Laboratoire de test:** TA Technology (Shanghai) Co. Ltd.  
No. 145 Jintang Rd, Tanzhen Industry Park, Pudong Shanghai, China  
TEL: +86-021-50791141/2/3  
FAX: +86-021-50791141/2/3-8000

**Test Lab ISED Site Number/Laboratoire de test ISED Numéro de site:** IC: 8510A

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**Notes/Remarques:**

WiFi: Power listed is conducted power. Modular Approval. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with IC multi-transmitter product procedures. OEM integrators and end-Users must be provided with transmitter operating conditions for satisfying RF exposure compliance.

Bluetooth: Power listed is conducted power. Modular Approval. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with IC multi-transmitter product procedures. OEM integrators and end-Users must be provided with transmitter operating conditions for satisfying RF exposure compliance.

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 Innovation, Science and Economic Development Canada 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 Innovation, Science and Economic Development Canada. 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 Innovation, Science and Economic Development Canada.

*La certification du matériel signifie seulement que le matériel a satisfait aux exigences de la norme indiquée ci-dessus. Les demandes de licences nécessaires pour l'utilisation du matériel certifié sont traitées en conséquence par le bureau de délivrance d'Innovation, Sciences et Développement économique Canada et dépendent des conditions radio ambiantes, du service et de l'emplacement d'exploitation. Le présent certificat est délivré à la condition que le titulaire satisfasse et continue de satisfaire aux exigences et aux procédures d'Innovation, Sciences et Développement économique Canada. Le matériel à l'égard duquel le présent certificat est délivré ne doit pas être fabriqué, importé, distribué, loué, mis en vente ou vendu à moins d'être conforme aux procédures et aux spécifications techniques applicables publiées par Innovation, Sciences et Développement économique Canada.*

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

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

Authorized Eurofins Electrical and Electronic Testing NA, Inc. Representative:



Signature:

Printed: 10/7/2022

Tom Zhang