

Technical Acceptance Certificate
Issued by
Sporton International (USA) Inc.

Certification Information								
Certificate Number	SN25I0229							
ISED Certification Number:	21098-ESPC5WROOM1							
Certificate Holder	ESPRESSIF SYSTEMS (SHANGHAI) CO., LTD. Suite 204, Block 2, 690 Bibo Road, Zhang Jiang HiTech Park, Shanghai 201203 China							
Type of Application	New single certification							
Product Identification Information								
HVIN / Model Number	ESP32-C5-WROOM-1							
PMN	ESP32-C5-WROOM-1							
FVIN	v1.1.3.4							
HMN	N/A							
Equipment Description:	2.4GHz & 5GHz Wifi & BLE & Zigbee module							
Type of Radio Equipment: (Equipment Category)	Wireless Local Area Network Device, Other							
Lab Information								ISED Lab #
Wireless Lab:	SPORTON INTERNATIONAL INC.(KUNSHAN) No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215300, P.R.C. TEL: +86-512-57900158 / FAX: +86-512-57900958 markqu@sporton-lab.com							4086E
RF Exposure Lab:	SPORTON INTERNATIONAL INC.(KUNSHAN) No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215300, P.R.C. TEL: +86-512-57900158 / FAX: +86-512-57900958 markqu@sporton-lab.com							4086E
Technical Specification								
Specification	Issue # & Date	Frequency Range (MHz)		Emission Designator	Power (W)		Field Strength	Dist.
		From	To		Min.	Max.		
RSS-247	Issue 3, Aug. 2023	2402	2480	2M04F1D	0.1180	0.1180	-	-
RSS-247	Issue 3, Aug. 2023	2412	2462	13M1G1D	0.1183	0.1183	-	-
RSS-247	Issue 3, Aug. 2023	2412	2462	18M9D1D	0.4178	0.4178	-	-
RSS-247	Issue 3, Aug. 2023	2422	2452	36M3D1D	0.3319	0.3319	-	-
RSS-247	Issue 3, Aug. 2023	2405	2480	2M01F1D	0.0458	0.0458	-	-
RSS-247	Issue 3, Aug. 2023	5180	5240	18M9D1D	0.0690	0.0690	-	-
RSS-247	Issue 3, Aug. 2023	5190	5230	36M4D1D	0.0578	0.0578	-	-
RSS-247	Issue 3, Aug. 2023	5260	5320	18M9D1D	0.0716	0.0716	-	-
RSS-247	Issue 3, Aug. 2023	5270	5310	36M7D1D	0.0601	0.0601	-	-
RSS-247	Issue 3, Aug. 2023	5500	5720	18M9D1D	0.0695	0.0695	-	-
RSS-247	Issue 3, Aug. 2023	5510	5710	36M5D1D	0.0566	0.0566	-	-
RSS-247	Issue 3, Aug. 2023	5745	5825	18M9D1D	0.0716	0.0716	-	-
RSS-247	Issue 3, Aug. 2023	5755	5795	36M6D1D	0.0571	0.0571	-	-
Antenna Information								
PCB Antenna								
Maximum Antenna Gains (dBi)								

2400-2480 MHz: 3.62 dBi	5150-5250 MHz: 3.07 dBi	5250-5350 MHz: 1.93 dBi
5470-5725MHz: 3.43 dBi	5725-5850 MHz: 2.80 dBi	
Approval Conditions		
New single certification : Output power listed maximum conducted output power. Single 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. Co-location of this transmitter with other transmitters that operate simultaneously are required to be evaluated using the ISSED multi-transmitter procedures. Approved for OEM integration only. The grantee must provide OEM integrators with installation and operating instructions for satisfying RF exposure requirements and multi-transmitter product guidelines.		
Labeling Requirement	RSS-GEN Issue 5 section 4 Labelling Requirements	
Market Surveillance Requirements	It is required by Innovation, Science and Economic Development Canada (ISED) to perform Market Surveillance activities on those products Certification Body / Sporton International USA Inc. certified. If the product is being selected by CB for auditing purpose, certification holder should make provisions to always have product samples upon request by the CB or by ISED's Certification and Engineering Bureau (CEB) within 30 days from the request date. The CB shall notify the Bureau if the request for a sample cannot be met.	
This certificate is considered valid based on the following conditions: • The certified products must continue to comply with the latest issue of all applicable ISED standards • This certificate does not constitute a radio licence, where required by the applicable ISED standard(s), a radio license must be obtained from an ISED regional office prior to product operation • The certified products shall not be manufactured, imported, distributed, leased, offered for sale, or sold unless the product certification information is listed on ISED's Radio Equipment List (REL) • For ISED and/or CB audit purposes, sample of certified product shall be made available to ISED and/or CB		
Ce certificat est considéré valide sur la base des conditions suivantes : • Les produits certifiés doivent continuer à être conformes à la dernière version de toutes les normes d'ISDE applicables. • Ce certificat ne constitue pas une licence radio. Si une licence radio est requise selon la ou les normes d'ISDE applicables, la licence radio doit être obtenue auprès du bureau régional d'ISDE avant l'exploitation du produit. • Les produits certifiés ne doivent pas être fabriqués, importés, distribués, loués, mis en vente ou vendus à moins que les informations relatives à la certification du produit figurent dans la Nomenclature du matériel radio (NMR) d'ISDE. • À des fins d'audit de la part d'ISDE et/ou de l'OC, des échantillons de produits certifiés doivent être mis à la disposition d'ISDE et/ou de l'OC.		
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 a été jugé conforme à la spécification ci-dessus.		
Foreign Certification Body / Authorized Signatures		
Name of Signer, Title	Rose Wang, Reviewer	Evan Chen, Decision Maker
Issue Date	Jul. 7, 2025	Jul. 7, 2025