

**EU-TYPE EXAMINATION CERTIFICATE
RADIO EQUIPMENT DIRECTIVE 2014/53/EU**

Annex III Module B

Issued by

**SPORTON INTERNATIONAL (USA) INC
(Notified Body number: 2907)**

Certification Information				
Certificate No	SN23C0149	Certificate Revision No:	A	
Issue Date	Sep. 28, 2023	Certificate Validation:	See Remark	
Product Manufacturer	Espressif Systems (Shanghai) Co.,Ltd.			
	Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park, Shanghai, China			
Product Identification Information				
Product Description	2.4GHz Wi-Fi & BT IoT Module			
Brand/Trade Name	ESPRESSIF			
Model/Type designation	ESP32-C6-WROOM-1			
Hardware Version	V1.2			
Software Version	v1.1.3.4			
Accessories	PCB Antenna			
Conformity Assessment				
Essential requirements	Applied Specification(s) / Standard(s) and Test Report		Result	
Safety	EN IEC 62368-1:2020+A11:2020		PASS	
RED, Article 3.1a	Report No.: L330805KS034-M1			
Health	EN 50665: 2017		PASS	
RED, Article 3.1a	EN IEC 62311: 2020			
	Report No.: EA330805			
EMC	EN 301 489-1 V2.2.3		PASS	
RED, Article 3.1b	Draft EN 301 489-17 V3.2.6			
	Report No.: EW330805			
Radio Spectrum	EN 300 328 V2.2.2		PASS	
RED, Article 3.2	Report No.: ER330805			

Radio Equipment Specifications

Technology	Frequency Band / Range	Maximum not to exceed output Power
Bluetooth LE	2400 ~ 2483.5 MHz	17.72 dBm (EIRP)
WIFI 2.4GHz	2400 ~ 2483.5 MHz	19.28 dBm (EIRP)
Zigbee	2405 ~ 2480 MHz	7.55 dBm (EIRP)
Thread	2405 ~ 2480 MHz	7.39 dBm (EIRP)

Examined Technical Documentation File (TDF)

<input checked="" type="checkbox"/> Label Drawing/Location	<input checked="" type="checkbox"/> Power of Attorney Letter	<input type="checkbox"/> Model Variance Statement
<input checked="" type="checkbox"/> EU Declaration of Conformity	<input checked="" type="checkbox"/> User Manual	<input checked="" type="checkbox"/> Risk Assessment
<input checked="" type="checkbox"/> Schematic Diagram	<input checked="" type="checkbox"/> Operational Description	<input type="checkbox"/> Antenna Specification
<input checked="" type="checkbox"/> Block Diagram	<input checked="" type="checkbox"/> Parts/ Bill of Materials	<input checked="" type="checkbox"/> PCB Layout
<input checked="" type="checkbox"/> Test Reports/Safety	<input checked="" type="checkbox"/> External Photos	<input checked="" type="checkbox"/> TDF Reference Number: EN330805
<input checked="" type="checkbox"/> Test Reports/RF Exposure	<input checked="" type="checkbox"/> Internal Photos	Issue Date: Sep. 14, 2023
<input checked="" type="checkbox"/> Test Reports/Radio	<input checked="" type="checkbox"/> Test Setup Photos	
<input checked="" type="checkbox"/> Test Reports/EMC		
<input type="checkbox"/> Test Reports/Emergency Service	<input type="checkbox"/> Other	

Certificate Note

1. The transmitter antennas must be installed to provide a separation distance of at least 20cm from all persons.
2. This radio module has been assessed for use in the temperature range of -40°C to +105°C and with an input voltage range of DC 3.0V~3.6V. When installing this radio module into a host product to a create new radio equipment device, the manufacturer responsible for placing the final radio product on the market in the EU must assess if the combination of this radio module and the host product complies with the essential requirements of the RE Directive 2014/53/EU.

Certification Remark

CE Marking	Regulation (EC) No 765/2008, Article 30 and Annex II The manufacturer to affix the CE marking to the radio equipment or its data plate when placing a product on the market unless this is not possible or not warranted on account of the nature of the radio equipment. This marking shall have a minimum height of 5 mm. The CE marking shall also be affixed visibly and legibly to the packaging. If the nature of the radio equipment does not allow a marking of at least 5 mm, the manufacturer may affix a CE marking that is smaller than 5 mm to the product under the condition that it remains visible and legible. If it not possible or not warranted on account of the nature of the radio equipment to affix a CE marking on the product, the manufacturer may affix it visibly and legibly only to the packaging. If the radio equipment is subject to other pieces of EU legislation which do not allow the CE marking to be smaller than 5 mm, then the possibility of using a smaller CE mark cannot be used by the manufacturer (e.g. RoHS).
Obligations of manufacturers	Radio Equipment Directive 2014/53/EU, Article 10. Radio Equipment Directive 2014/53/EU, Annex III, Module B,7: The manufacturer shall inform the notified body that holds the technical documentation relating to the EU-type examination certificate of all modifications to the approved type that may affect the conformity of the radio equipment with the essential requirements of this Directive or the conditions for validity of that certificate. Such modifications shall require additional approval in the form of an addition to the original EU-type examination certificate. Radio Equipment Directive 2014/53/EU, Annex III, Model B, 9: The manufacturer shall keep a copy of the EU-type examination certificate, its annexes and additions together with the technical documentation at the disposal of the national authorities for 10 years after the radio equipment has been placed on the market.

Certificate Validity	If there is no change on product identification and/or manufacturer's identification or technical modifications which may possibly affect the compliance of the product with the Radio Equipment Directive, and if there is no new guideline published from the EU Commission or new publication of a standard, which supersedes the standard and/or methodology used for assessment, this Notified Body EU type examination certificate remains valid. Notified Body name, Notified Body number and TEC reference shall be listed and agree with information listed in Manufacturer's CE Declaration of Conformity.	
Authorized Signature	 I hereby attest that technical documentation for the subject equipment was assessed by Sporton International (USA), Inc. acting as Notified Body that the essential requirements of Article 3.1(a), Article 3.1(b), Article 3.2 of Radio Equipment Directive 2014/53/EU have been met. This EU-type examination certificate is issued in accordance with Annex III, Module B, of Radio Equipment Directive 2014/53/EU based on the documentations as provided to Sporton International (USA) Inc.	
Name of Signer	Alexander Ho	Notified Body under the EU/US Mutual Recognition Agreement
Revision History		
Description	Revision No.	Date
Original	A	Sep. 28, 2023