

Company: ESPRESSIF SYSTEMS (SHANGHAI) PTE LTD

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Applicant	ESPRESSIF SYSTEMS (SHANGHAI) PTE LTD		
FCC ID:	2AC7Z-ESP32		
Section 15.212 Modular Transmitters			
Request for Modular Approval	<input type="checkbox"/>	Request for Limited Modular Approval	<input checked="" type="checkbox"/>
	Requirements	EUT Conditions	Comply(Y/N)
Single Modular Approval Requirements			
1	The radio elements of the modular transmitter must have their own shielding. The physical crystal and tuning capacitors may be located external to the shielded radio elements.	Refer to external photos. This module does not have shield cover.	N
2	The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with part 15 requirements under conditions of excessive data rates or over-modulation.	All inputs to the modules are buffered through logic or microprocessor inputs. Refer to Schematics.	Y
3	The modular transmitter must have its own power supply regulation.	Internal 3.3V power regulator. Refer to schematics.	Y
4	The modular transmitter must comply with the antenna and transmission system requirements of §§15.203, 15.204(b) and 15.204(c). The antenna must either be permanently attached or employ a "unique" antenna coupler (at all connections between the module and the antenna, including the cable). The "professional installation" provision of §15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section.	The antenna is integral to the device. It use a PCB antenna ,Refer to external photo	Y
5	The modular transmitter must be	The modular transmitter	Y

	<p>tested in a stand-alone configuration, i.e., the module must not be inside another device during testing for compliance with part 15 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in §15.207. AC or DC power lines and data input/output lines connected to the module must not contain ferrites, unless they will be marketed with the module (see §15.27(a)). The length of these lines shall be the length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there is no coupling between the case of the module and supporting equipment. Any accessories, peripherals, or support equipment connected to the module during testing shall be unmodified and commercially available (see §15.31(i)).</p>	<p>is tested in a stand-alone configuration. Please reference test setup photo for the stand-alone test configuration</p>	
6	<p>If using a permanently affixed label, the modular transmitter must be labeled with its own FCC identification number, and, if the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: “Contains Transmitter Module FCC ID: 2AC7Z-ESP32” or “Contains FCC ID: 2AC7Z-ESP32.” Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included</p>	Refer to the label	Y

	in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization.		
7	The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization.	Refer to manual	Y
8	The modular transmitter must comply with any applicable RF exposure requirements in its final configuration	Refer to the test report	Y

Sincerely Yours,

Minjie Cai

Signature: