

## Espressif Systems (Shanghai) Co.,Ltd. Modular Transmitter Approval Request

Federal Communications Commission  
Equipment Authorization Branch  
7435 Oakland Mills Road  
Columbia, MD 21046

**Company name:** Espressif Systems (Shanghai) Co.,Ltd.

**FCC ID:** 2AC7Z-ESPC3MINII

Gentlemen,

In accordance with 47CFR 15.212 Modular Transmitters and KDB 996369 D01 'Module Certification Guide v02'. FCC ID 2AC7Z-ESPC3MINII has been examined against the following requirements.

Items to be covered by Single modular transmitters.

Requirement per 15.212 and KDB 996369 D01 'Modular Certification Guide v02	Explanation from Grantee (do not write yes/no, but explain why product complies/how it is achieved)
1. The radio elements must have the radio frequency circuitry shielded. Physical components and tuning capacitor(s) may be located external to the shield, but must be on the module assembly	The module has its own RF shielding. Please see external photo.pdf
2. The module must have buffered modulation/data inputs to ensure that the device will comply with Part 15 requirements with any type of input signal	The modular has buffered data inputs, it is integrated in chip ESP32. Please see schematic.pdf
3. The module must contain power supply regulation on the module	All power lines derived from the host device are regulated before energizing other circuits internal to the ESP32. Please see schematic.pdf
4. The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b)	The ESP32-C3-MINI-1U meet the FCC antenna requirements. ESP32-C3-MINI-1U is an external antenna.
5. The module must demonstrate compliance in a stand-alone configuration	The ESP32-C3-MINI-1U was tested in a stand-alone configuration via com serial interface. Please see test set-up photo.pdf
6. The module must be labelled with its permanently affixed FCC ID label, or use an electronic display (See KDB Publication 784748 about labelling requirements)	The label position of ESP32-C3-MINI-1U is clearly indicated. If the FCC ID of the module cannot be seen when it is installed, then the host label must include the text: Contains FCC ID: 2AC7Z-ESPC3MINII. Please see the label.pdf
7. The module must comply with all specific rules applicable to the transmitter including all the conditions provided in the integration instructions by the grantee	The ESP32-C3-MINI-1U is compliant with all applicable FCC rules. Detail instructions are given in the Users Manual. Please see user manual.pdf

<p>8. The module must comply with RF exposure requirements</p>	<p>The ESP32-C3-MINI-1U is approved to comply with the applicable RF exposure requirement, please see the MPE evaluation with 20cm as the distance restriction.</p>
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**Name:** Mia Zhou

**Date:** 2022.4.25

**Title:**/Certification Manager

**Signature of applicant**

