

Modular Approval Request Letter

FCC ID: 2AC7Z-EK057

Date: December 11, 2020

Gentlemen:

There's a Wi-Fi & Bluetooth Internet of Things Module that would like to have your authorization as a modular approval.

The specific product as below, with its designed features and specified description, meets special requirements for full modular approval on FCC Public Notice 15.212 Released: June 26, 2000 by cross-reference list below.

Company	Espressif Systems (Shanghai) Co.,Ltd.
Model Name	Wi-Fi & Bluetooth Internet of Things Module
Model Number	EK057
FCC ID	2AC7Z-EK057

Requirement of Public Notice 15.212	Reference to EK057
1. The modular transmitter must have its own RF shielding.	The module has its own RF shielding. Please see external photo.pdf
2. The modular transmitter must have buffered modulation/data inputs.	The modular has buffered data inputs, it is integrated in chip ESP32. Please see schematic.pdf
3. The modular transmitter must have its own power supply regulation.	All power lines derived from the host device are regulated before energizing other circuits internal to the ESP32. Please see schematic.pdf
4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c).	The EK057 meets the FCC antenna requirements. It is an On-board antenna.
5. The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing.	The EK057 was tested in a stand-alone configuration via com serial interface. Please see test set-up photo.pdf
6. The modular transmitter must be labeled with its own FCC ID number, and, if the FCC ID 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.	The label position of EK057 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-EK057. Please see the label.pdf
7. The modular transmitter must comply with any specific rule or operating requirements applicable to the 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.	The EK057 is compliant with all applicable FCC rules. Detail instructions are given in the Users Manual. Please see user manual.pdf
8. The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4).	The EK057 is approved to comply with the applicable RF exposure requirement, please see the MPE evaluation with 20cm as the distance restriction.

Thank you.

Sincerely, 

Mia Zhou /Certification Manager
Espressif Systems (Shanghai) Co.,Ltd.