

## Modular Approval Request Letter

**FCC ID: 2AC7Z-ESP8266EX**

**Data: October 31, 2014**

Gentlemen:

There's an Wi-Fi Internet of Things Module that would like to have your authorization as a modular approval. The specific product as below, Wi-Fi Internet of Things Module, 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) PTE LTD
Model Name	: Wi-Fi Internet of Things Module
Model Number	: ESP8266EX
FCC ID	: 2AC7Z-ESP8266EX

Requirement of Public Notice 15.212	Reference to ESP8266EX.
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 ESP8266EX. 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 ESP8266EX. Please see schematic.pdf
4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c).	The ESP8266EX meets the FCC antenna requirements. Please see external photo.pdf
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 ESP8266EX 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 ESP8266EX 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-ESP8266EX. 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 ESP8266EX 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 ESP8266EX is approved to comply with the applicable RF exposure requirement, please see the MPE evaluation with 20cm as the distance restriction.

Thank you.

Sincerely,

*Minjie Cai*

Minjie Cai / Marketing Manager

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