Modular Approval Request Letter

Data: December 8, 2017

FCC ID: 2AC7Z-ESPWROOM32D

Gentlemen:

There's a Wi-Fi 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) PTE LTD
Model Name	Wi-Fi & Bluetooth Internet of Things Module
Model Number	ESP-WROOM-32D
FCC ID	2AC7Z-ESPWROOM32D

Requirement of Public Notice 15.212	Reference to ESP-WROOM-32D
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	The ESP-WROOM-32D meets the FCC antenna requirements. It is an
Section 15.203 and 15.204(c).	On-board antenna, Please see internal photo.pdf
5. The modular transmitter must be tested in a stand-alone configuration,	The ESP-WROOM-32D was tested in a stand-alone configuration via
i.e., the module must not be inside another device during testing.	com serial interface. Please see test set-up photo.pdf
6. The modular transmitter must be labeled with its own FCC ID number,	The label position of ESP-WROOM-32D is clearly indicated. If the
and, if the FCC ID is not visible when the module is installed inside another	FCC ID of the module cannot be seen when it is installed, then the
device, then the outside of the device into which the module is installed	host label must include the text: Contains FCC ID:
must also display a label referring to the enclosed module.	2AC7Z-ESPWROOM32D. Please see the label.pdf
7. The modular transmitter must comply with any specific rule or operating	The ESP-WROOM-32D is compliant with all applicable FCC rules.
requirements applicable to the transmitter and the manufacturer must	Detail instructions are given in the Users Manual. Please see user
provide adequate instructions along with the module to explain any such	manual.pdf
requirements. A copy of these instructions must be included in the	
application for equipment authorization.	
8. The modular transmitter must comply with any applicable RF exposure	The ESP-WROOM-32D is approved to comply with the applicable RF
requirements. For example, FCC Rules in Sections 2.1091, 2.1093 and	exposure requirement, please see the MPE evaluation with 20cm as
specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and	the distance restriction.
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).	

Thank you.

Sincerely,

Minjie Cai / Marketing Manager
ESPRESSIF SYSTEMS (SHANGHAI) PTE LTD