Modular Approval Letter

ESPRESSIF SYSTEMS (SHANGHAI) CO., LTD
FCC ID:2AC7Z-ESPWROOMDA is seeking FCC Authorization as a
☐ Single Limited Modular Transmitter
The EUT meets the requirements for:
☐ Single Modular Approval
☐ Single Limited Modular Approval
as detailed in KDB 996369. Compliance to each of the requirements is described below:

Modular Approval Requirement	Yes	No	Explanation
(i) 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.			The module has its own RF shielding. Please see external photo.pdf
(ii) The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with part15 requirements under conditions of excessive data rates or over-modulation.			The modular has buffered data inputs, it is integrated in chip ESP32. Please see schematic.pdf
(iii) 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
(iv) 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.	\boxtimes		The ESP32-WROOM-DA meets the FCC antenna requirements. ESP32-WROOM-DA is an On-board antenna.
(v) The modular transmitter must be tested in a stand-alone configuration	\bowtie		The ESP32-WROOM-DA was tested in a stand-alone configuration via com serial interface. Please see test set-up photo.pdf
(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.			The label position of ESP32-WROOM-DA 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-ESPWROOMDA. Please see the label.pdf
(vii) 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.	\boxtimes		The ESP32-WROOM-DA is compliant with all applicable FCC rules. Detail instructions are given in the Users Manual. Please see user manual.pdf

(viii) The modular transmitter must comply with any applicable		The ESP32-WROOM-DA is approved
RF exposure requirements in its final configuration.		to comply with the applicable
	\boxtimes	RF exposure requirement,
		please see the MPE evaluation
		with 20cm as the distance restriction.

Client's signature: Ma Zhou

Client's name & title:Mia Zhou
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