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Modular Approval Letter

Date: 2025-01-15

FEDERAL COMMUNICATIONS COMMISSION
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

We, 8devices, hereby request Modular Approval for Product: Mango
(Model number: Mango, FCC ID: Z9WMAN).The requirement of FCC 15.212 as below:

Item	§ 15.212 Requirement	Y/N	Comments
(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.	Yes	The modular has RF shielding, please refer to the EUT photo.
(ii)	The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with part 15 requirements under conditions of excessive data rates or over-modulation.	Yes	The modular transmitter has buffered modulation/data inputs, Buffered data inputs stage has been integrated in chip (Model:IPQ6010).
(iii)	The modular transmitter must have its own power supply regulation.	Yes	The modular transmitter has its own power supply regulation. Please refer to the Schematics.
(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 modular approvals under paragraph (b) of this section.	Yes	Comply with the antenna requirements of Section 15.203 and 15.204(c), the uses a unique coupling to the intentional radiator, the antenna gain for 5G WiFi is 4.32dBi, and the antenna gain for 2.4G WiFi is 2.09dBi.
(v)	The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing for compliance with part 15 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted	Yes	The EUT was tested in a stand-alone configuration, please refer to setup photos exhibit for details.

	requirements found in § 15.207. AC or DC power lines and data input/output lines connected to the module must not contain ferrites, unless they will be marketed with the module (see § 15.27(a)). The length of these lines shall be the length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there is no coupling between the case of the module and supporting equipment. Any accessories, peripherals, or support equipment connected to the module during testing shall be unmodified and commercially available (see § 15.31(i)).		
(vi)	The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.	Yes	The module labeled with its own FCC ID.
(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.	Yes	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. The necessary explanation to be complied with this requirement is contained in the user manual, please refers to the User Manual.
(viii)	Radio frequency devices operating under the provisions of this part are subject to the radio frequency radiation exposure requirements specified in §§ 1.1307(b), 1.1310, 2.1091, and 2.1093 of this chapter.	Yes	Comply with any applicable RF exposure requirements in its final configuration.

Sincerely,
Signature:

Printed Name: Jonas Sabaliauskas

Title: Director