

Modular Approval Letter

2021-01-13

Applicant: Shanghai Zenchant Electronic CO.,LTD.

Application Address: Room 1203, Building A, Noble International Center, No. 908
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E-mail: cs@zenchant.com

Product Name: Dual-mode Bluetooth module

Model Name: ZEN-BDM10-A

FCCID: 2AOC9-ZENBDM10A

Section 15.212 Modular Transmitters

Request for Modular Approval

Request for Limited Modular Approval

Single Modular Approval Requirements:

Item	Requirements	EUT Conditions	Comply (Y/N)
1	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.	This module uses sheet metal to cover the RF components.	Y
2	The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with part 15.247 requirements under conditions of excessive data rates or over-modulation.	This module uses chipset model as buffer / data input.	Y
3	The modular transmitter must have its own power supply regulation.	This module has a power regulator system to provide a stable power supply to the RF amplifier circuit. The module supports voltage range of DC 2.2-5.5V. The voltage regulator IC model is BP02215-26AA	Y

Item	Requirements	EUT Conditions	Comply(Y/N)
4	<p>The modular transmitter must comply with the antenna and transmission system requirements of §15.203, §15.204(b) and §15.204(c).</p> <p>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.</p>	<p>The objects to be tested can be applied together with a branch antenna, and meet the requirements of FCC, the technical specification for low power RF motor. Antenna type is PCB.</p>	Y
5	<p>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 §15.247 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted 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)).</p>	<p>Declare "When this RF module is tested, the test can be performed in a standalone architecture using an external extension card. The detailed test architecture will be recorded in the test report".</p> <p>The bottom PCB is only used for module circuit connection, without other peripheral components. Designed by ourselves and not sold in the market.</p>	Y

Item	Requirements	EUT Conditions	Comply(Y/N)
6	<p>If using a permanently affixed label, the modular transmitter must be labeled with its own FCC identification number, and, if the FCC identification number 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. This exterior label can use wording such as the following:</p> <p>"Contains Transmitter Module FCC ID: 2AOC9-ZENBDM10A on Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization.</p>	<p>After the module is certified, the module body will be marked with a qualified label according to the regulations; The platform manufacturer is required to mark the words "this product Contains Transmitter Module : FCC ID: 2AOC9-ZENBDM10A on the platform. For detailed information, please refer to the operation manual.</p>	Y
7	<p>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.</p>	<p>This module is for general radio use. All necessary information has been provided in the manual to guide the user/installer on proper installation and operation.</p>	Y

Item	Requirements	EUT Conditions	Comply(Y/N)
8	The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	The EUT comply with RF exposure requirements § 2.1091. If the device built into a host as a portable usage, the RF exposure evaluation may be required as specified by § 2.1093	Y



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