Modular Approval Request Letter

Applicant: Guangzhou Xaircraft Technology CO., LTD

Product Name: 4D Imaging Radar

Model No.: RD24412

FCC ID: 2A46G-RD24412

The single module transmitter has been evaluated then tested meeting the requirements under

Part 15C Section 212 as below:

Modular approval requirement	Explanation from Grantee
The radio elements of the modular transmitter must have their	Yes
own shielding. The physical crystal and tuning capacitors may	The radio elements of the modular transmitter
be located external to the shielded radio elements.	have their own shielding.
The modular transmitter must have buffered modulation/data	Yes
inputs (if such inputs are provided) to ensure that the module	The modular has buffered data inputs, it is
will comply with part 15 requirements under conditions of	integrated in chip. Please see schematic.pdf
excessive data rates or over-modulation.	
The modular transmitter must have its own power supply	Yes
regulation.	All power lines derived from the host device are
	regulated before energizing other circuits
	internal to the module. Please see
	schematic.pdf
The modular transmitter must comply with the antenna and	Yes
transmission system requirements of Sections 15.203,	A permanently attached antenna or unique
15.204(b) and 15.204(c). The antenna must either be	antenna connector is permanently attached.
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	
Section 15.203 is not applicable to modules but can apply to	
limited modular approvals under paragraph (b) of this section.	

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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 requirements found in Section 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 Section 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 Section 15.31(i)) must not be inside another device during testing. The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number. 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 requirements, which are based on the intended use/configurations. The modular transmitter must comply with any applicable RF exposure requirement, please see the MPE evaluation.		
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