


Applicant/Grantee	Chung Nam Electronics Co., LTD.		
FCC ID:	Q72WLC311NR		
Section 15.212 Modular Transmitters			
Request for Modular Approval		Request for Limited Modular Approval	√
	Requirements	EUT Conditions	Comply (Y/N)
Single Modular Approval Requirements			
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.	The radio portion of this module have been shielded, please see exhibition external photo.	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 requirements under conditions of excessive data rates or over-modulation.	The EUT have buffered data inputs, it is integrated in chip RT3070	Y
3	The modular transmitter must have its own power supply regulation.	The 5VDC supply from the USB 2.0 interfaces is regulated by regulator IC CAT7117 to provide stable 3.3V and 1.5V DC voltages to RT3070.	Y
4	The modular transmitter must comply with the antenna and transmission system requirements of Sections 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 Section 15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section.	The EUT meets the FCC antenna requirements, The EUT antenna configuration either uses an unique internal antenna installed onto PCB board or uses external PIFA antenna via an IPEX connector	Y
5	The modular transmitter must be tested in a stand-alone configuration, <i>i.e.</i> , 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	The EUT was tested in a stand-alone configuration via a USB interface. Please see section photographs of test configuration in the test report, the EUT was plugged in USB interface.	Y

	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)).		
6	<p>The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.</p> <p><i>(A) 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: "Contains Transmitter Module FCC ID: XYZMODEL1" or "Contains FCC ID: XYZMODEL1." 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.</i></p> <p><i>(B) If the modular transmitter uses an electronic display of the FCC identification number, the information must be readily accessible and visible on the modular transmitter or on the device in which it is installed. If the module is installed inside another device, then the outside of the device into which the module is installed must display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains FCC certified transmitter module(s)." Any similar wording that expresses the same meaning may be used. The user manual must include instructions on how to access the electronic display. A copy of these instructions must be included in the application for equipment authorization.</i></p>	Please see exhibition label sample for the FCC ID of this module. And also in the exhibition user manual, there are instructions give to the OEM on how to label the end product	Y
7	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	The EUT is compliant with all applicable FCC rules. Detail instructions for maintaining compliance are given in the OEM User Manual.	Y

	instructions must be included in the application for equipment authorization.		
8	The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.	N
<p>A limited modular approval may be granted for single or split modular transmitters that do not comply with all of the above requirements, <i>e.g.</i>, shielding, minimum signaling amplitude, buffered modulation/data inputs, or power supply regulation, if the manufacturer can demonstrate by alternative means in the application for equipment authorization that the modular transmitter meets all the applicable Part 15 requirements under the operating conditions in which the transmitter will be used. Limited modular approval also may be granted in those instances where compliance with RF exposure rules is demonstrated only for particular product configurations. The applicant for certification must state how control of the end product into which the module will be installed will be maintained such that full compliance of the end product is always ensured.</p>			

Please contact me if you have any further questions. Thanks for your attention.

Best Regards,



Simon Au
ENGINEERING DIRECTOR
Chung Nam Electronics Co., LTD.