Quectel Wireless Solutions Company Limited

Date: June 21, 2023

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233



Request for Modular/Limited Modular Approval

Subj	•	□ - Split Modular Approval□ - Limited Split Modular Approval			
Con	nfidentiality Request for: XMR2023RG520FNA				
8 Basic Requirements – FCC Part 15.212(a)(1) For Items Marked "NO(*)", the Limited Module Description Must be Filled Out on the Following Pages					
	Modular Approval Requirement	Requir	ement Met		
: :	The modular transmitter must have its own RF shielding. This is intended to ensure that the does not have to rely upon the shielding provided by the device into which it is installed in o modular transmitter emissions to comply with FCC limits. It is also intended to prevent coup between the RF circuitry of the module and any wires or circuits in the device into which the installed. Such coupling may result in non-compliant operation. The physical crystal and tur capacitors may be located external to the shielded radio elements. 15.212(a)(1)(i)	rder for all bling	□ - NO(*)		
	Details: <example a="" all="" and="" antenna="" board="" circuitry.="" components="" connector="" contains="" covers="" is="" located="" metal="" module="" next="" of="" on="" rf="" shield="" the="" to="" top="" which="" –=""></example>				
	The modular transmitter must have buffered modulation/data inputs (if such inputs are provien ensure that the module will comply with FCC requirements under conditions of excessive day over-modulation. 15.212(a)(1)(ii)		□ - NO(*)		
	Details: <example application="" as="" buffered="" circuit="" data="" described="" description="" in="" is="" modulation="" operational="" provided="" the="" to="" with="" –=""></example>				
	The modular transmitter must have its own power supply regulation on the module. This is it ensure that the module will comply with FCC requirements regardless of the design of the posupplying circuitry in the device into which the module is installed. 15.212(a)(1)(iii)		□ - NO(*)		
	Details: <example -="" application="" contains="" filed="" its="" module="" own="" please="" power="" refer="" regulation.="" schematic="" supply="" the="" this="" to="" with=""></example>				
;	The modular transmitter must comply with the antenna and transmission system requirement §§ 15.203, 15.204(b), 15.204(c), 15.212(a), and 2.929(b). The antenna must either be permarkattached or employ a "unique" antenna coupler (at all connections between the module and antenna, including the cable). The "professional installation" provision of § 15.203 is not at to modules but can apply to limited modular approvals under paragraph 15.212(b). 15.212(a)	nently the	□ - NO(*)		
	Details: <example a="" an="" and="" antenna="" antennas="" application="" approved="" be="" connector="" connector.="" connects="" considered="" device="" found="" in="" is="" its="" list="" manual="" may="" module="" non-standard="" of="" provided="" tested="" the="" this="" to="" ufl="" users="" using="" which="" with="" –=""></example>				
1	The modular transmitter must be tested in a stand-alone configuration, i.e., the module must inside another device during testing. This is intended to demonstrate that the module is capal complying with Part 15 emission limits regardless of the device into which it is eventually in Unless the transmitter module will be battery powered, it must comply with the AC line concrequirements found in Section 15.207. AC or DC power lines and data input/output lines concrequirements not contain ferrites, unless they will be marketed with the module (see Sect 15.27(a)). The length of these lines shall be length typical of actual use or, if that length is unleast 10 centimeters to insure that there is no coupling between the case of the module and su equipment. Any accessories, peripherals, or support equipment connected to the module during shall be unmodified or commercially available (see Section 15.31(i)). 15.212(a)(1)(v)	ble of astalled. ducted anected to ion aknown, at apporting	□ - NO(*)		
	Details: <example as="" in="" module="" photograph<="" setup="" shown="" stand-alone="" td="" test="" tested="" the="" was="" –=""><td colspan="2">tails: <example application="" as="" filed="" in="" module="" photographs="" setup="" shown="" stand-alone="" test="" tested="" the="" this="" was="" with="" –=""></example></td></example>	tails: <example application="" as="" filed="" in="" module="" photographs="" setup="" shown="" stand-alone="" test="" tested="" the="" this="" was="" with="" –=""></example>			

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	Modular Approval Requirement	Requirement Met		
6.	The modular transmitter must be labeled with its own FCC ID number, or use an electron display (see KDB Publication 784748). If using a permanently affixed label with its own FCC ID number, if the FCC ID 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. If the modular transmitter uses an electronic display of the FCC identification number, the information	⊠ - YES	□ - NO(*)	
	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. 15.212(a)(1)(vi)			
	Details: <example a="" application.="" are="" as="" exhibit="" filed="" host="" in="" installation="" instructions="" is="" label="" labeling="" manual="" module="" on="" shown="" specific="" the="" there="" this="" with="" –=""></example>			
7.	The modular transmitter must comply with all specific rule or operating requirements applicable to the transmitter, including all the conditions provided in the integration instructions by the grantee. A copy of these instructions must be included in the application for equipment authorization. For example, there are very strict operational and timing requirements that must be met before a transmitter is authorized for operation under Section 15.231. For instance, data transmission is prohibited, except for operation under Section 15.231(e), in which case there are separate field strength level and timing requirements. Compliance with these requirements must be assured. 15.212(a)(1)(vii)	⊠ - YES	□ - NO(*)	
	Details: <example 15c="" application.="" complies="" fcc="" filed="" installation="" instructions="" manual="" module="" oem="" part="" requirements.="" the="" this="" to="" with="" –=""></example>	l installer are	provided in	
8.	The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4). Modular transmitters approved under other Sections of Part 15, when necessary, may also need to address certain RF Exposure concerns, typically by providing specific installation and operating instructions for users, installers and other interested parties to ensure compliance. 15.212(a)(1)(viii)	⊠ - YES	□ - NO(*)	
	Details: <example application.="" as="" exclusion="" exposure="" filed="" in="" information="" levels="" meets="" module="" portable="" rf="" shown="" the="" this="" with="" –=""></example>			

Sincerely,

Jean Hu

Quectel Wireless Solutions Company Limited