| Applicant/Grantee   Quectel Wireless Solutions Company Limited   FCC ID:   XMR2024FCM962K     Section 15.212 Modular Transmitters   Request for Modular Approval   Request for Limited Modular Approval   EUT Conditions   Comply (Single Modular Approval Requirements   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 module has buffer modulation/data inputs (if such inputs are provided) to ensure that the   The module has buffer modulation/data inputs.   The module has buffer modulation/data inputs.   Yes the modulation   Yes |             |  |  |  |  |  |  |
|--|-------------|--|--|--|--|--|--|
| Request for Modular Approval   Request for Limited Modular Approval   Requirements   EUT Conditions   Comply (**)  |             |  |  |  |  |  |  |
| Requirements  Single Modular Approval Requirements  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 is shielded, please see exhibition external photos.  The radio portion of this module is shielded, please see exhibition external photos.  The module has buffer modulation/data inputs (if such inputs are provided) to ensure that the   |             |  |  |  |  |  |  |
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| inputs are provided) to ensure that the  |             |  |  |  |  |  |  |
|  |             |  |  |  |  |  |  |
|  |             |  |  |  |  |  |  |
| module will comply with Part 15  |             |  |  |  |  |  |  |
| requirements under conditions of   |             |  |  |  |  |  |  |
| excessive data rates or over-modulation.   |             |  |  |  |  |  |  |
| The modular transmitter must have its  The module has its own power supply  Y  |             |  |  |  |  |  |  |
| own power supply regulation.  regulation. Please see the schem.pdf   |             |  |  |  |  |  |  |
| The modular transmitter must comply  The requirements of antenna connector  Y  |             |  |  |  |  |  |  |
| with the antenna and transmission and spurious emission have been  |             |  |  |  |  |  |  |
| system requirements of Sections 15.203, 15.204(b) and 15.204(c). The antenna exhibition.   |             |  |  |  |  |  |  |
| 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.   |             |  |  |  |  |  |  |
| 5 The modular transmitter must be tested Please refer to the Setup Photo Y   |             |  |  |  |  |  |  |
| in a stand-alone configuration, <i>i.e.</i> , the exhibition for the stand-alone test  |             |  |  |  |  |  |  |
| module must not be inside another configuration.   |             |  |  |  |  |  |  |
| 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)).   |   | <b>X</b> 7 |
| 6 | The modular transmitter must be   | The Module will be labeled with its own   | Y          |
|   | equipped with either a permanently  | FCC ID, and the instruction on the        |            |
|   | affixed label or must be capable of   | labeling rule of the end product has been |            |
|   | electronically displaying its FCC   | stated in the User Manual of this         |            |
|   | identification number.  | module. Please refer to the Label and     |            |
|   | (A) If using a permanently affixed label, the   | User Manual exhibition.                   |            |
|   | 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.  |   |            |
|   | (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.  |   |            |
| 7 | The modular transmitter must comply   | The required FCC rule has been fulfilled  | Y          |
|   | with any specific rules or operating  | and all the instructions for maintaining  |            |
|   | requirements that   | compliance have been clearly stated in    |            |
|   | ordinarily apply to a complete  | the User Manual.                          |            |
|   | 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.  |   |            |

| 8 | The modular transmitter must comply      | Please refer exhibition RF Exposure for | Y |
|---|--|---|---|
|   | with any applicable RF exposure          | the compliance of MPE RF exposure       |   |
|   | requirements in its final configuration. | rule.                                   |   |

Contact Person: Jean Hu E-mail: jean.hu@quectel.com