

Apr 01, 2021

Modular Approval Request Letter

Date: 2021-04-01

FCC ID: COR-RYZ012X1

Type of Equipment: BLE Communication Module


Herewith we state that the requirements according to FCC Part 15.212 are met and the module qualifies for a single modular transmitter approval.

#	Requirement as per 47 CFR Part 15 Subpart C §15.212	Conditions met? (Y/N)	Realisation / Evidence in FORM 731 application filing
i	RF shielding 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.	Y	<i>The radio portion has his own shielding (see external photos).</i>
ii	Buffered modulation/data inputs 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.	Y	The function has been integrated in the chipset (see operational description)
iii	Power supply regulation The modular transmitter must have its own power supply regulation.	Y	DC/DC converter included in BLE SoC
iv	Antenna requirements The modular transmitter must comply with the antenna and transmission system requirements of §§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). Additional justification and details may be requested – please refer to KDB 996369	Y	<i>The module comes with an integrated antenna. The spurious emission requirements are fulfilled (see attached test report).</i>
v	Stand-alone test configuration 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 §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)).	Y	<i>The module has been tested in a stand-alone configuration – the only supporting auxiliary equipment was a breakout board for GPIO interfacing. (see test report/ test set-up photos)</i>
vi	Labelling The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.	Y	<i>The module has a laser marking on the RF shield. The instruction for labelling rules for the host device has been stated in the user manual</i>
vii	Compliance on specific rule or operating requirements 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	Y	<i>The required FCC rules has been fulfilled and all instructions for maintaining compliance has been clearly stated in the user manual</i>

Renesas Electronics Germany GmbH

Managing Director: Carsten Jauch
Registered Office: Grenzstrasse 28, 01109 Dresden, Germany. Postal Address: Postfach 80 01 34, 01101 Dresden, Germany
Registered Court: Local Court Dresden HRB 35678. Value Added Tax Identification No.: DE151798300. Tax-ID-No.: 202/117/07950
Account Relationship: Bank of America (for EUR payments): BIC: BOFADEFXXX, IBAN: DE62 5001 0900 0020 7250 23
Bank of America (for USD payments): BIC: BOFADEFXXX, IBAN: DE84 5001 0900 0020 7250 15

	instructions must be included in the application for equipment authorization.		
viii	RF Exposure Radio frequency devices operating under the provisions of this part are subject to the radio frequency radiation exposure requirements specified in §§1.1307(b), 1.1310, 2.1091, and 2.1093 of this chapter, as appropriate. Applications for equipment authorization of modular transmitters under this section must contain a statement confirming compliance with these requirements. The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	Y	<i>RF exposure requirements are fulfilled for mobile configuration. The installation of the module is restricted to mobile host devices what is clearly stated in the installation instruction of the user manual.</i> <i>For portable applications OEM integrators need SAR evaluation and an own FCC ID.</i>



Torsten Limberg
Product Marketing Specialist
Renesas Electronics Germany GmbH