Project name: 4_INFIN_0203_BTT

FCC
Federal Communications Commission

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request for a modular approval - FCC ID: Q23 104001

Dear Application Examiner,

Infineon Technologies of München, Germany, are seeking for FCC authorization for the use of their device "**ROK 104001**" as a modular transmitter. The requirements of the FCC Public notice DA00-1407 are met.

The following requirements are fulfilled:

1. The modular transmitter must have its own RF shielding
The radio portion of the module is contained in its own RF shielding. See photos in exhibits.

2. The modular transmitter must have buffered modulation/data inputs

The modulation/Data inputs are buffered.

3. The modular transmitter must have its own power supply regulation

The modular transmitter has its own power supply regulation.

4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204c
The transmitter shall only be used with the tested antenna.

5. The modular transmitter must be tested in a stand-alone configuration
The EUT was tested in the requested a stand-alone configuration.

6. The modular transmitter must be labelled with its own FCC ID number
The EUT will be labelled with its own FCC ID number. The label is specified in related exhibit. If the module is installed inside of an end-product, the label will not be visible. In this case the OEM customer will be instructed to how to apply the exterior label.

7. The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements.
The EUT is compliant with all applicable FCC rules. Detail instructions are given in the Users Guide.

8. The modular transmitter must comply with any applicable RF exposure requirements.

The maximum measured power output is 1,41 mW (1,5 dBm), the maximum antenna gain is 1,6 dBi = numeric gain 1,445 (see also FCC test report)

The maximum permissible exposure is defined in 47 CFR 1.1310 with 1 mW/cm². The distance from the EUT's transmitting antenna where the exposure level reaches the maximum permitted level is calculated using the general equation:

$$S = P*G / 4\pi R^2$$

S_{max} = 1mW/cm², P = 1,41 mW, linear power gain relative to the isotropic radiator = 1,6 dBi = 1,445 (numeric gain), R = distance in cm

Solving for R, the 1mW/cm² limit is reached in a distance of 0,40 cm to the transmitting antenna.

After installation of Infineon Bluetooth module "ROK 104001", the minimum distance of 0,40 cm must always be ensured. During normal use of this device it is impossible that the user gets closer to the transmitting antenna.

Please contact us if you have any additional questions.

Best Regards

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