FCC
Federal Communications Commission

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request for a modular approval - FCC ID: PVH070101

Dear Application Examiner,

the ConnectBlue Bluetooth module cB-0701-01 is seeking FCC authorization as a modular transmitter. The requirement 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 module has no modulation inputs. No such inputs are provided on the module. The Bluetooth radio is self contained.

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

The module has its own on board power supply circuitry

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 or with an antenna that has less antenna gain. The specifications of possible antennas are filed with this application.

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 1,39 mW (1,42 dBm), the maximum antenna gain is 3 dBi = numeric gain 2,0

The maximum permissable 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 = 1,39 mW, linear power gain relative to the isotropic radiator = 3 dBi = 2,0 (numeric gain), R = distance in cm

Solving for R, the 1mW/cm² limit is reached in a distance of 0,47 cm to the transmitting antenna.

The module has to be integrated in a way that the minimum distance of 0,47 cm is ensured so a statement in the users manual is not necessary.

Please contact us if you have any additional questions.

Best Regards

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