

Attn: Reviewing Engineer

Federal Communications Commission
7435 Oakland Mills Road
Columbia, MD 21046

RE: PART 15 UNLICENSED MODULAR TRANSMITTER APPROVAL

To Whom It May Concern:

We, connectBlue AB, hereby requests for part 15 unlicensed modular transmitter approval of our OEM-Bluetooth module, described as follows:

Brand name: connectBlue AB
Model name: OEM-Bluetooth module
Type number: cB-0901-0302
FCC ID: PVH090103L

In FCC Public Notice DA 00-1407 released June 26,2000 there are eight numbered requirements that our OEM-Bluetooth module type cB-0901-0302 complies with.

1. The modular transmitter must have its own shielding.

The module fulfils the emission requirements of the FCC rules without additional shielding.

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

The module has a memory management unit inside of the IC. It buffers the data inputs from UART and USB terminal.

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

The IC contains an own voltage regulation. In case of changes in the supply voltage VCC (for example caused by temperature changes or other effects), the internal voltage will be stabilized.

4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204c

The module is for OEM integration only. The end-user product will be professionally installed in such a manner that only the authorized antennas are used.

5. The modular transmitter must be tested in a stand-alone configuration

The EUT was tested in 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 Exhibit D. 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.

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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 product Users Guide

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

The maximum measured power output is 28,2 mW (14,5 dBm), the maximum antenna gain is 9 dBi = numeric gain 8. 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:

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

$$S = 1 \text{ mW/cm}^2,$$

$$P = 28,2 \text{ mW, linear power gain relative to the isotropic radiator} = 9 \text{ dBi} = 8 \text{ (numeric gain),}$$

$$R = \text{distance in cm}$$

Solving for R, the 1 mW/cm² limit is reached in a distance of 4,24 cm to the transmitting antenna.

The module has to be integrated in a way that the minimum distance of 4,24 cm is ensured so a statement in the users manual is not necessary. In case that the distance of 4,24 cm cannot be ensured, the users manual of the end product in which the module will be integrated has to inform the user about a minimum distance of 20 cm between the equipment and the body if the equipment is considered as mobile equipment. If the equipment is considered as portable equipment, an evaluation against the applicable SAR limits is required.