

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 a Limited Modular Approval of our OEM-Bluetooth module, described as follows:

Brand name: connectBlue AB
Model name: cB-0939
Type number: cB-0939
FCC ID: PVH0939

In FCC Public Notice DA 00-1407 released June 26,2000 there are eight numbered requirements that our OEM-Bluetooth module type cB-0939 complies with.

1. The modular transmitter must have its own shielding.

The modular transmitter has its own shielding as shown on the photo exhibits.

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

The module has a memory management unit inside of the IC (U1). It buffers the data inputs from UART and SPI terminal.

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

The IC contains an own voltage regulation (U4, U10). 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 either equipped with on-board chip antenna or unique (UFL) antenna connector. For further details please refer to the antenna data sheet included in the filing.

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

The EUT was tested in a stand-alone configuration.

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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.

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 55 mW (17,4 dBm), the maximum antenna gain is + 3,4 dBi = numeric gain 2,2 (acc to FCC test report). The maximum permissible exposure is defined in 47 CFR 1.1310 with 1 mW/cm².

The maximum permitted level is calculated using the general equation:

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

$$P = 55 \text{ mW},$$

$$G = 2,2 \text{ (numeric gain; + 3,4 dBi = linear power gain relative to the isotropic radiator),}$$

$$R = 20 \text{ cm}$$

$$\pi = 3,1416$$

Solving for S, the power density at 20 cm is 0,024 mW/cm². So the 1mW/cm² limit is kept.