

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 limited modular approval of our OEM-WLAN module, described as follows:

Brand name: connectBlue AB
Model name: OEM-WLAN module
Type number: cB-0904-02
FCC ID: PVH090402

In FCC Public Notice DA 00-1407 released June 26, 2000 there are eight numbered requirements that our OEM-Bluetooth module type cB-0904-02 complies with.

1. The modular transmitter must have its own shielding.

The module does not have an own shielding, but fulfils the emission requirements of the FCC rules without additional shielding. Integration of this module is limited to OEM integrators.

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 has either got an internal onboard antenna or alternatively an UFL connector for using external antennas mounted. This module is limited to OEM integration only.

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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Fehler! Hyperlink-Referenz ungültig.

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 32.4 mW (15.1 dBm), the maximum antenna gain is + 8.5 dBi = numeric gain 7,1 (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:

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

$$P = 32,4 \text{ mW}$$

$$G = 7,1 \text{ (numeric gain; + 8,5 dBi = linear power gain relative to the isotropic radiator),}$$

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

$$p = 3,1416$$

Solving for S, the power density at 20 cm is 0,046 mW/cm². So the 1mW/cm² limit is kept.