

Attn:           Reviewing Engineer

Federal Communications Commission  
7435 Oakland Mills Road  
Columbia, MD 21046

## **LIMITED MODULAR APPROVAL REQUEST**

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: Serial Port Module  
Type number: cB-0901-0302  
FCC ID:       PVH090103AP

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 in the specific host (Wireless Network Platform working as Wireless Access Point) as described in this application.  
The Wireless Access Point is subject for professional installation.

**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 integrator 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 28,2 mW (14,5 dBm), the maximum antenna gain is + 8.5 dBi = numeric gain 7,08 (acc to antenna datasheets).

The maximum permissible exposure is defined in 47 CFR 1.1310 with 1 mW/cm<sup>2</sup>.

The maximum permitted level is calculated using the general equation:

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

$$P = 28,2 \text{ mW},$$

$$G = 7.08 \text{ (numeric gain; + 8.5 dBi = linear power gain relative to the isotropic radiator),}$$

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

$$\pi = 3,1416$$

Solving for S, the power density at 20 cm is 0,0397 mW/cm<sup>2</sup>.

So the 1mW/cm<sup>2</sup> limit is kept.