2007-05-09 Reference: cBProject-0704-04(2)

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-WLAN module, described as follows:

Brand name: connectBlue AB
Model name: OWSPA311g
FCC ID: PVH090802

In FCC Public Notice DA 00-1407 released June 26,2000 there are eight numbered requirements. Our OEM-WLAN module OWSPA311g complies with all these requirements.

1. The modular transmitter must have its own shielding.
The WLAN-module OWSPA311g has its RF-parts covered by a shield box.

2. The modular transmitter must have buffered modulation/data inputs
The WLAN-module OWSPA311g has no modulation inputs. The electrical interface consists of a UART serial interface.

3. The modular transmitter must have its own power supply regulation
The WLAN-module OWSPA311g contains its own voltage regulators. In case the supply voltage changes, the internal voltages will be kept unchanged.

4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204c
The WLAN-module OWSPA311gi is equipped with an internal antenna.
The WLAN-module OWSPA311gx is equipped with U.FL antenna connectors that are considered unique.

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 WLAN-module OWSPA311g will be marked with its own FCC ID number. The FCC ID number is printed in the solder mask of layer 8 on the module PCB. For systems using the module where the original FCC ID marking not will be visible when the module is installed instructions will be provided to the OEM customer how the end product must be 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 WLAN-module OWSPA311g 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 output power is 155 mW [21.9 dBm]. The maximum antenna gain is 8.5 dBi [equal to a numeric gain of 7.1]

The maximum permissible exposure defined in 47 CFR 1.1310 is 1 mW/cm².

The maximum level at 20 cm distance is calculated using the general equation:

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

P = 155 mW,
G = 7.1 (linear power gain relative to the isotropic radiator)
R = 20 cm

Solving for S, the power density at 20 cm is 0,22 mW/cm².
This is well below the 1mW/cm² limit.