

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: cB-0926-02
 cB-0926-03
FCC ID: PVH0926

In FCC Public Notice DA 00-1407 released June 26,2000 there are eight numbered requirements. Our OEM-WLAN module OWL22Xa complies with all these requirements.

1. The modular transmitter must have its own shielding.

The WLAN-modules cB-0926-02 and cB-0926-03 have its RF-parts covered by a shield box.

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

The WLAN-modules cB-0926-02 and cB-0926-03 have no modulation inputs. The electrical interface consists of a SPI interface (cB-0926-02) or SDIO interface (cB-0926-03).

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

The WLAN-modules cB-0926-02 and cB-0926-03 have its own voltage regulators.

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

WLAN-modules cB-0926-02 and cB-0926-03 are equipped with either an internal antenna or 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-modules cB-0926-02 and cB-0926-03 will be marked with their 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-modules cB-0926-02 and cB-0926-03 are 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 permissible exposure defined in 47 CFR 1.1310 is 1 mW/cm².

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

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

Operating at 2412 – 2462 MHz

P_{max} = 95.5 mW [19.8 dBm]

G = 7.08 [8.5 dBi](linear power gain relative to the isotropic radiator)

R = 20 cm

Solving for S, the power density at 20 cm is 0.135 mW/cm².

This is well below the 1mW/cm² MPE limit.

Operating at 5180 – 5240 MHz

P_{max} = 22.2 mW [13.47 dBm]

G = 2 [3 dBi] (linear power gain relative to the isotropic radiator)

R = 20 cm

Solving for S, the power density at 20 cm is 0.009 mW/cm².

This is well below the 1mW/cm² MPE limit.