



Attn: Reviewing Engineer
Federal Communications Commission
7435 Oakland Mills Road
Columbia, MD 21046

RE: Certification Application

Product Serie: ODIN-W2
FCC ID: PVH0965

Registered office:
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Request for Part 15 Limited Modular Transmitter Approval

To whom it may concern:

We, u-blox Malmö AB, hereby requests for a limited modular transmitter approval of our OEM-WLAN/Bluetooth module ODIN-W2.

Please observe that integration of the module is to be made by the grantee himself thus limited to own use only

The equipment is described as follows:

Brand name: u-blox
Product Serie: ODIN-W2
Model : ODIN-W260 and ODIN-W262
FCC ID: PVH0965

In 47 C.F.R. §15.212 there are eight numbered requirements a single modular transmitter must meet to obtain a modular transmitter approval. Our OEM-WLAN/Bluetooth module ODIN-W2 complies with all 8 (eight) of these requirements.

1. The modular transmitter must have its own RF shielding

The module ODIN-W2 has its RF-parts covered by a shield box that is soldered on to the module ground plane.

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

The module ODIN-W2 does not have modulation inputs.

The electrical connection consists of power supply, UART, RMII, SPI and digital-I/O.

The interface signals (UART, RMII, SPI and digital-I/O) are internally buffered by the module SoC (System on Chip) and cannot affect the modulation.

Detailed instruction on how to connect these interface signals are given in the product Users Guide.

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

The WLAN/Bluetooth -module ODIN-W2 has 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, 15.204(b) and 15.204(c)

The module is either equipped with on-board chip antenna or unique (U.FL) 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 ODIN-W2 was tested on a reference design in a stand-alone configuration.

locate, communicate, accelerate

6. The modular transmitter must be labelled with its own FCC ID number

The module ODIN-W2 is marked with its own FCC ID number. The FCC ID number is printed on a label that is affixed on the shield cover.

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 integrator 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/Bluetooth-module ODIN-W2 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 in its final configuration.

The RF Module complies with the RF exposure limits when integrated into host devices categorized as mobile and/or fixed. See the "Calculation rf-exposure F151496.pdf" document for RF exposure calculations.

Thank you for your attention in this matter.



Mats Andersson
Senior director technology, u-blox Malmö AB

Job Title and Dept.: