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Amtsgericht Berlin-Charlottenburg Abteilung B – Register Nr. 42 324	
USt-IdNr.	DE 136 768 686

30th May 2008

Dear Application Examiner,

The Nanotron Technologies module FCC ID: SIFNANOLOCAVR0108 is seeking FCC authorization as a modular transmitter. The requirements of the FCC Public notice DA00-1407 are met.

The following requirements are fulfilled:

1. The modular transmitter must have its own RF shielding

The radio portion of the module is contained in the nanoLOC TRX chip itself. Substrate and ground plane of the chip package are connected to the chip ground potential with various internal bond wires to assure reliable grounding/shielding of the chip. There are no external components with respect to the RF part that can be used to increase the IC's output power and/or frequency. There are no tuning options outside the nanoLOC IC.

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

The module has a memory management unit inside of the IC. The nanoLOC chip buffers the data inputs from SPI in internal RAM banks.

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

The nanoLOC IC is capable of accepting and regulating all voltages in the specified voltage range. In case of changes in the supply voltage VCC (for example caused by temperature changes or other effects) within this range, the RF parameters are stabilized internally to assure compliance with all relevant RF parameters.

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

The transmitter shall only be used with the tested integral antenna or with an antenna that has less antenna gain. Requirements for the use of external antennas are specified in Exhibit

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“Declaration_about_antenna_configurations” FCC ID: SIFNANOLOCAVR0108. The modular transmitter must be tested in a stand-alone configuration.

The EUT was tested in a stand-alone configuration. See also test setup photos in test report (Exhibit Test Report FCC Part 15.247). For radiated measurements, the required distance of 10 cm was ensured by a special connector.

5. The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.

The nanoLOC AVR module is equipped with a permanently affixed label on the PCB (see also Exhibit LabelLoc). In addition the FCC identification number can also be written to non-volatile memory on the modular chip

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

If the module is installed inside another device, then the outside of the device into which the module is installed must display a label referring to the enclosed module. This exterior label can use wording such as the following: “Contains FCC certified transmitter module(s).”

6. 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

7. The modular transmitter must comply with any applicable RF exposure requirements.

This very low power OEM module is approved for use in products operating as mobile and portable transmitting device with respect to 2.1091 and 2.1093. This grant is valid only when the device is sold to OEM integrators. OEM integrators and End-users must be provided with transmitter operating conditions for satisfying RF exposure compliance.

Sincerely,

A handwritten signature in blue ink, appearing to read "F. Schlichting".

Dr. Frank Schlichting
Director Application Engineering
Nanotron Technologies GmbH