

Nanotron Technologies GmbH • Alt-Moabit 60 • 10555 Berlin • Germany

Federal Communications Commission
Authorization and Evaluation Division
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

Telefon +49 30 399 954 - 0

Fax +49 30 399 954 - 188

E-Mail info@nanotron.com

Web www.nanotron.com

Geschäftsführer Dr. Jens N. Albers

Bankverbindung Deutsche Bank
BLZ 10070000 Konto 703 777 3

Amtsgericht Berlin-Charlottenburg
Abteilung B – Register Nr. 42 324

USt-IdNr. DE 136 768 686

Request for modular approval
Nanotron Technologies GmbH
FCC ID: SIFNANOPAN5375V1
FCC Part 15 Certification

17.03.2009

Dear Application Examiner,

The Nanotron Technologies module FCC ID: SIFNANOPAN5375V1 is seeking FCC authorization as a modular transmitter. The requirements of the FCC Public notice DA00-1407 are met.

The following requirements are fulfilled in detail:

1. The modular transmitter must have its own RF shielding

The nanoPAN 5375 is completely shielded by a metal enclosure (see product photos in test report). Furthermore 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 modules output power and/or frequency. There are no tuning options outside the nanoPAN 5375.

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

The module has a memory management unit inside of the nanoLOC TRX 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 antenna or with an antenna that has less or equal antenna gain as specified in the Antenna Specification document (FCC exhibit 14). 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).

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 nanoPAN 5375 module is equipped with a permanently affixed label on the PCB (see also Exhibit LabelLoc) as well as with a printed label on the enclosure lid.

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)."

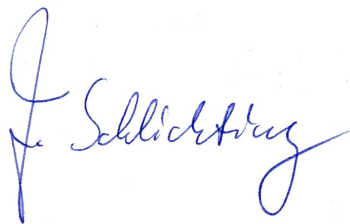
6. The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements.

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 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,



Dr. F. Schlichting
Director Application Engineering
Nanotron Technologies GmbH