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March 24, 2014

Request for Modular Transmitter Approval

In accordance with FCC Public Notice DA 00-1407, June 26, 2000

FortrezZ LLC requests modular transmitter approval for the FM5202 module. This letter addresses the numbered requirements below.

1. The modular transmitter must have its own RF shielding.

The module has an RF shield, to ensure that it does not have to rely upon the shielding provided by the device into which it is installed in order for all modular transmitter emissions to comply with Part 15 limits. It is also intended to prevent coupling between the RF circuitry of the module and any wires or circuits in the device into which the module is installed.

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

The module has its own buffered data inputs inside the Sigma Designs ZM5202 Module.

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

The FM5202 module has an on board external voltage regulator accepting DC voltage from any battery or regulated DC source up to 16V. The Sigma Designs FM5202 Module also has its own power supply regulation; it's integrated in the IC ZW0502.

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

The FM5202 meets the FCC antenna requirements. The ceramic antenna and pcb trace are permanently attached to the module. Please see photographs of the antenna, found e.g. in file FM5202_antenna.pdf

5. The modular transmitter must be tested in a stand-alone configuration.

The module FM5202 was tested in a stand-alone configuration. Please see for details the photos from the test setup in the test report.

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

The module is labeled with its own FCC ID: XCT-FM5202 number.
See label and label location drawing contained in this application.

Instructions are given to the end user in the module data sheet that if the module is installed inside another device, then the outside of the device must also display a label referring to the enclosed module.

In this case the end product will be labeled exterior with "Contains FCC ID: XCT-FM5202"

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 FM5202 module is compliant with all applicable FCC rules.

Please see test report for the detailed RF Exposure. Instructions for maintaining compliance are given in the Users Manual.

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

The FM5202 module meets the requirements of FCC section 15.249. Even if the Sigma Designs FM5202 transmitted at the maximum allowed field strength (50,000 uV/m), which the equivalent e.i.r.p would be 0.75 mW. OEM integrators and end users must be provided with transmitter operating conditions for satisfying RF exposure compliance.

Please see test report for the detailed RF Exposure. OEM manufactures are given instructions in the Users Manual for maintaining compliance to RF exposure requirements.

Sincerely yours,



Stella Szasz

Title: VP Operations