Atmel®

October 30, 2014

Request for a modular approval

Dear Application Examiner,
The Atmel Norway AS module Model: ATWINC1500 is seeking FCC authorization as a modular transmitter. The requirements of FCC 15.212 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 under its own RF shield; please refer to the module photos.

2. The modular transmitter must have buffered modulation/data inputs
Module communicates with the host processor via standard SPI or SDIO interface which is implemented with (built into WiFi System on Chip IC) microprocessor. Transmit data is stored into imbedded memory and shifted out to modulator which provides several buffering stages between incoming data and modulator.

3. The modular transmitter must have its own power supply regulation
WiFi System on Chip IC contains multiple dedicated voltage regulators for transmitter chain including modulator, pre-power amplifier, power amplifier.

4. The modular transmitter must comply with the antenna requirements of Section 15.203
The antenna is permanently attached (printed) on each module.

5. The modular transmitter must be tested in a stand-alone configuration
The EUT was tested in a stand-alone configuration. The controller board that it is connected to is for collection of data only.

6. The modular transmitter must be labeled with its own FCC ID number
The EUT will be labeled with its own FCC ID number. User manual instructs OEM customers on how to place exterior label in case if it is not visible.
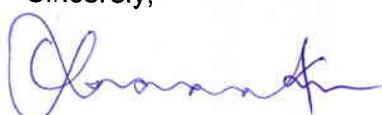
7. The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements.
The EUT is compliant with all applicable FCC rules. Detail instructions are given in the Users Guide.

8. The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.
Instructions are given in the installation manual for compliance to the RF exposure requirements.

Sincerely,

Saravanakumar Marudhachalam

Manager, Tools HW Development