



November 19, 2015
Request for a modular approval

Dear Application Examiner,

The Atmel U.S. module Model: ATWILC1000_MR110UB 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
The modular transmitter has its own data buffer. Transmit data is stored in imbedded memory and shifted out to the modulator which provides several buffering stages between incoming data and the modulator.
3. The modular transmitter must have its own power supply regulation. The modular transmitter has its own supply regulation implemented with dedicated LDOs and DC/DC power converter.
4. The modular transmitter must comply with the antenna requirements of Section 15.203
The module is attached with uFL connector to antenna Part Number RN-SMA-4. The Antenna has gain of 2.2dBi.
5. The modular transmitter must be tested in a stand-alone configuration
The EUT was tested in a stand-alone configuration. A motherboard which supplied power to the module and connectors for control signals was attached to the module with wires. The module and the motherboard were separated by 10cm.
6. The modular transmitter must be labeled with its own FCC ID number
The EUT will be labeled with its own FCC ID number. The User Manual instructs OEM customers on how to place an exterior label in case 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. Detailed instructions are given in the User's 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,

Hassan Hashemi
Senior Director, Operations & Advanced Packaging

Atmel Corporation
1 Spectrum Pointe Drive
Suite 225
Lake Forest, CA 92630

T: (949) 340.6150
F: (949) 707.4027
www.atmel.com