



Wireless Technology to Control and Monitor Anything from Anywhere™

August 15, 2013

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

Re: FCC ID: U9O-RF200A

Gentlemen:

Synapse Wireless Inc. respectfully requests Part 15 unlicensed modular transmitter approval of the Synapse Wireless Inc. RF200A product. In accordance with the Part 15.212(a)(1), here is the response to the items listed for the RF200A product.

Item 1: The RF200A module has a metal RF shield that is soldered to the ground plane on all sides, enclosing all electronics, and prevents coupling of the RF circuitry with the host board electronics in which the RF200A is plugged into in order to comply with this item.

Item 2: All input data to the RF200A is buffered in the microcontroller located on the RF200A. Firmware in the microcontroller then controls the flow of this data to the transmitter for RF communications to prevent excessive data rates or over-modulations to comply with this item.

Item 3: The RF200A transmitter is the Atmel ATMEGA128RF1A series of IEEE 802.15.4 transceiver modems. This modem has internal power supply regulation to comply with Item 3.

Item 4: The RF200A is marketed with a Reverse Polarity SMA style unique antenna coupler or with an inverted-F antenna incorporated into the outer layers of the printed circuit board. Both configurations meet the requirements of this item.

Item 5: The necessary RF200A and support hardware was provided to the certification lab to show compliance with this item.

Item 6: The FCC ID label assigned to the RF200A will be located on the top outside face of the RF200A. In the case that this label on the RF200A is not visible after installation, the 430133-01D Data Sheet will document to the user of the RF200A that the FCC ID labeling requirements must be included on an exterior label of the finished product enclosure using the RF200A stating that the product contains the FCC ID label for the RF200A. A copy of 430133-01D Data Sheet will be provided to the FCC to show this compliance.

Item 7: In order to show compliance to this item, a copy of the 430133-01D Data Sheet will be provided to the FCC to show that the issues of Item 7 have been properly documented.

Item 8: The RF200A will be tested to comply with any applicable RF exposure requirements. Also, in order to show compliance to aspects of this item, a copy of the 430133-01D Data Sheet will be provided to the FCC to show that the issues of Item 8 have been properly documented.

Sincerely,

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