Wireless Technology to Control and Monitor Anything from Anywhere™

4/18/2011

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

Gentlemen:

Synapse Wireless Inc. respectfully requests Part 15 unlicensed modular transmitter approval of the Synapse Wireless Inc. RF26X product. In accordance with the Part 15.212(a)(1) and IC RSS-GEN7.1.1, here is the response to the items listed for the RF26X product.

Item 1: The RF26X module has a metal RF shield that is soldiered to the ground plane on all side, enclosing all electronics, and prevents coupling of the RF circuitry with the host board electronics in which the RF26X is plugged into in order to comply with this item.

Item 2: All input data to the RF26X is buffered in the microcontroller located on the **RF26X**. 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 **RF26X** transmitter is the Atmel ATMEGA128RFA1 series of IEEE 802.15.4 transceiver modems. This modem has internal power supply regulation to comply with Item 3.

Item 4: The **RF26X** has support for an external antenna thru a Reverse Polarity SMA style unique antenna coupler which is mounted on the **RF26X** which complies with Item 4 requirements.

Item 5: The necessary **RF26X** and support hardware was provided to the certification lab to show compliance with this item.

Item 6: The FCC ID label assigned to the **RF26X** will be located on the top outside face of the **RF26X**. In the case that this label on the **RF26X** is not visible after installation, the RF26X _Datasheet.pdf will document to the user of the **RF26X** that the FCC ID labeling requirements must be included on an exterior label of the finished product enclosure using the **RF26X** stating that the product contains the FCC ID label for the **RF26X**. A copy of RF26X _Datasheet.pdf will be provided to the FCC to show this compliance.

Item 7: In order to show compliance to this item, a copy of the RF26X _Datasheet.pdf will be provided to the FCC to show that the issues of Item 7 have been properly documented.

Item 8: The **RF26X** 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 RF26X _Datasheet.pdf will be provided to the FCC to show that the issues of Item 8 have been properly documented.

Sincerely,

Name: Jason Scott Gurley Title: Senior Design Engineer

Synapse Wireless, Inc. 500 Discovery Drive, Huntsville, AL 35806
(P) 256-852-7888 (TF) 877-982-7888 (F) 256-852-7862
www.synapse-wireless.com