

Modular Approval Declaration Letter

Reason for Amendment (current / obsolete)	Revision History		Approved Date
	From	To	
Initial Release (current)	1.0	1.0	Dec-04-2006



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25 February 2010

Dear Sir/Mam,

XQ7-TAGSENSE-NANO, is seeking FCC Authorization as a modular transmitter. The EUT meets the requirements for modular approval as detailed in FCC public Notice DA00-1407. Compliance to each of the requirements is described below:

Questions are:

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

The module does contain its own RF shielding.

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

The module does contain buffered modulation and data inputs through a microcontroller. The user does not have direct access to the radio IC. It is buffered through the microcontroller.

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

The module does include its own power supply regulator.

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

Device **XQ7-TAGSENSE-NANO** has been tested in 3 different configurations and all of them comply with the antenna requirements of section 15.203 and 15.204c. The product shall be sold with either the Reverse Polarity SMA connector or the MMCX Female connector, which are considered non-standard connectors.

The module documentation shall also include a notice that it cannot be used with an external amplifier unless separate authorization has been obtained.

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

The module has already been tested in stand-alone configuration for operation in the 902 MHz – 928 MHz band.

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

The module contains screen printing which will include the FCC IC number.

- 7. "The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instruction along with the module to explain any such requirements."**

The radio module is self-contained and can operate autonomously. Instructions for using the module are described in the user datasheet, which is included with the product purchase.

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

The maximum transmit power produced by the module at the antenna port is 50 milliwatt (approx 18 dBm). Even with the highest gain external antenna (5dbi), the radiated power is far below the RF exposure limit.

Sincerely,



Richard Fletcher, President

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