



December 15, 2004

Gentlemen:

The following information is being provided per the requirements of DA00-1407 regarding modular approval of Part 15 devices.

This transceiver is a complete RF module with an integral reference oscillator.

External connections are provided for power and data communications.

The following numbered items correspond to similarly numbered paragraphs in DA00-1407. Each item is a response to the requirements of that document.

- 1) The module has integral RF shielding to isolate it from surrounding equipment and the larger environment in general.
- 2) All inputs are processed as data by the on-board micro-controller. The outside user has no direct control of the transmit modulation scheme. Baseband data arriving at the module always get buffered in one of the microcontrollers internal registers; this data is transferred to an outgoing data buffer by the microcontroller before being sent to the radio IC. Under excessive data input rate conditions, the excess data is ignored and it is processed only at the rate at which the microcontroller reads it from the registers.
- 3) There is not a hardware voltage regulator on board. Instead, the micro-controller monitors power supply voltage on a continuous basis. Should the supply voltage be found to be outside of the normal specified operating parameters the unit will refuse to transmit. Further, conducted testing has shown that the unit operates within the stated Part 15 requirements when operated within the specified supply voltage range.
- 4) The antenna is soldered to the board and is permanently attached to the module.
- 5) The module was tested in a stand-alone configuration and found to be compliant with Part 15 regulations
- 6) An FCC ID label is affixed to each unit at the time of manufacture. Information is also clearly presented in the user guide about labeling requirements of the final assembly.
- 7) This unit is compliant with Part 15.247. Installation and other requirements are presented in the user guide to allow the unit to be correctly installed.
- 8) The unit is compliant with the RF exposure requirements of Part 15.247.

Further information may be obtained from Sensicast Systems, Inc.

Sincerely,

John P. O'Brien  
Senior Principal Hardware Engineer  
Sensicast Systems, Inc.

Sensicast Systems, Inc.  
220-3 Reservoir St.  
Needham, MA 02494

P: 781.453.2555  
F: 781.453.0601

<http://www.sensicast.com>

