



# LS RESEARCH, LLC

## Wireless Product Development

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Re: Limited Modular Transmitter Approval

**FCC ID: NFL-IRMT2006**

**IC: 6347A-IRMT2006**

Gentlemen,

The following information is being provided per the requirements of 15.212(b) regarding a **limited modular approval** of Part 15 devices. For Canada, per the requirements of RSS-GEN 7.1.2 (2007).

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

External connections are provided for power and data communication.

Note: The module is to be installed only by Niles Audio Corporation in its end products, and will not be marketed to third parties.

The following numbered items correspond to similarly numbered paragraphs in 15.212. 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 microcontroller. The outside user has no direct control of transmit modulation.
- 3) There is a 1.8V voltage regulator on board that powers the radio transceiver. The power amplifier supply is monitored by the microcontroller and transmission is disabled if the source voltage is greater than 3.6V.
- 4) There are several antenna options used with this module. An integral PCB – trace antenna, an integral quarter-wave monopole wire antenna, or a manufacturer soldered RG-178 coaxial cable “pigtail” to 4 external antenna possibilities. The BNC antenna has a standard connector and Niles will use the professional installation provision of 15.203 under limited modular approval paragraph of 15.212(b). These connections are in accordance with Part 15.203.
- 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 for 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 Parts 15.247 and 2.1091 and RSS-102 Issue 3.

Further information may be obtained from **Niles Audio Corporation**.

Sincerely,

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