

Axiom Manufacturing  
2813 Industrial Lane  
Garland, TX 75041  
972-926-9303

January 30, 2006

Request for Modular Approval Attestation for the MC13192U / AXM0361 module.

Per the FCC Public Notice DA-00-1407 for Part 15 Unlicensed Modular Transmitter approval the following information is provided:

- 1) "The modular transmitter must have it's own shield." The MC13192U has a soldered on brass shield over the MC13192 RF transceiver device, associated coupling coils and antenna switch device. The PCB board provides 3 copper planes under the active devices that also act as a shielding. Only the RF Antenna from the RF section of the module is exposed outside the shielding.
- 2) "The modular transmitter must have buffered modulation/data inputs". The MC13192U buffers the serial control and data signals into the module and also the status/ received data outputs to the controlling host device. The input buffers limit signal peaks to the modules regulated supply voltage to prevent over driving. The MC13192 transceiver device performs data conversion, modulation, and transmission after the controlling device has provided the data by serial interface. The controlling device cannot cause an over-modulated condition.
- 3) "The modular transmitter must have it's own power supply regulation." The MC13192U contains a 3.0VDC voltage regulator for the power supply to the RF transceiver.
- 4) "The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c)." The MC13192U module antenna is an embedded copper structure in the module PCB board. The module PCB board is processed with tight tolerances to provide consistent impedance for correct operational specifications of the module.
- 5) "The modular transmitter must be tested in a stand-alone configuration, i.e., must not be inside another device during testing." The MC13192U module was tested exposed on a 15cm ribbon cable connection to the host controller. The host controller provided regulated 5VDC to the module for power supply.
- 6) "The modular transmitter must be labeled with it's own FCC ID number..." The MC13192U provides it's own FCC ID label on the module RF shield. Detailed installation instructions are provided in the user manual for the module.
- 7) "The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions..." The MC13192U user manual explains the requirements for operating the MC13192U module in compliance with the FCC rules and registration.
- 8) "The modular transmitter must comply with any applicable RF exposure requirements." The MC13192U user manual explains in the RF exposure hazard associated with use of the module and preventive measures.