



111 Enterprise Road
Delafield, Wisconsin 53018

(262) 646-9444
Fax: (262) 646-9445
sales@kar-tech.com

Re: Modular Transmitter Approval
FCC ID: P4U-MOD164
IC: 4534A-MOD164

Date: May 27, 2014

To whom it may concern,

The following information is being provided per the requirements of 15.212 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 communication. The transceiver operates with short bursts of data, using 50 hopping channels equally, which meets Part 15.247(g). The transceivers use pseudo randomly generated hop sequences which meets Part 15.247(h).

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 host has no direct control of transmit modulation.
3. The operating range of the module is 1.8 to 3.6VDC. The output power and the frequency are relatively invariant to supply voltage. This is implemented by internal DC-DC converter and brownout detector.
4. There are two antenna options with this module, (1) a 900MHz ¼ wave antenna with reverse polarity SMA connector, (2) a 3.2" 22AWG wire monopole. The wire antenna is soldered directly to the module. This is 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 manufacturing. There is an additional label for the final assembly that is clearly explained in the User Manual.
7. This unit complies with Part 15.247. Installation and other requirements are presented in the User Manual.
8. The unit is compliant with the RF exposure requirements of Parts 15.247 and 2.1091.

Regards,



Hassan Karbassi

President