

22 August, 2011

**(Product name) FCC ID: VIC-C0553**

is seeking FCC Authorization as a  **Single Modular transmitter** /  **Single Limited Modular Approval** (Please check one). The EUT meets the requirements for  **Single Modular approval** /  **Single Limited Modular Approval** (Please check one) 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."**  
 Yes /  No [Hach] If RF shielding is necessary, it could be provided as indicated in the attached example by modifying the PCB)
2. **"The modular transmitter must have buffered modulation/data inputs."**  
 Yes /  No [Hach] If this means between the (SPI) communication lines of the transmitter & the main microcontroller. (Is this what is meant by "modulation/data inputs"?)
3. **"The modular transmitter must have its own power supply regulation."**  
 Yes /  No [Hach] The transmitter module does not have its own power supply regulation on the module however, it does have a decoupling LC filter between the main power supply and transmitter power supply)
4. **"The modular transmitter must comply with the antenna requirements of section 15.203 and 15.204(c)."**  
 Yes /  No [Hach] The transmitter has a chip antenna, from Würth Electronik, p/n: 7488910245. There is no transmitter connector for an antenna. The antenna is permanently fixed. [SIEMIC to determine]
5. **"The modular transmitter must be tested in a stand-alone configuration."**  
 Yes /  No [Hach] SIEMIC will test the module with the sens/ON+ meters)
6. **"The modular transmitter must be labeled with its own FCC ID number."**  
 Yes /  No [Hach] Hach will add the required information to the transmitter PCB as an adhesive tag or in the PCB silkscreen [per SIEMIC instructions].
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."**  
 Yes /  No Hach will add the required information to instructions [per SIEMIC instructions]
8. **"The modular transmitter must comply with any applicable RF exposure requirements."**  
 Yes /  No [Hach] SIEMIC to affirm this and what if any requirements are necessary.

Note:

- (1) LMA may be granted when one or more of the requirements in the table above cannot be demonstrated. LMA will also be issued in those instances where applicants can demonstrate that they will retain control over the final installation of the device, such that compliance of the end product is assured. In such cases, an operating condition on the LMA for the module must state that the module is only approved for use when installed in devices produced by a specific manufacturer. When LMA is sought, the application for equipment certification must specifically state how control of the end product into which the module will be installed, and will be maintained, such that full compliance of the end product is always ensured.
- (2) Host devices which contain separately certified modules do not need to be recertified, provided that they meet the following conditions:
  - (i) The host device, as a stand-alone unit without any separately certified modules, complies with all applicable Radio Standards Specifications.
  - (ii) The host device and all the separately certified modules it contains jointly meet the RF exposure compliance requirements of RSS-102, if applicable.
  - (iii) The host device complies with the certification labeling requirements of each of the modules it contains.

**Note 1:** Compliance of a module in its final configuration is the responsibility of the applicant. A host device will not be considered certified if the instructions regarding antenna configuration provided in the original description, of one or more separately certified modules it contains, were not followed.

**Example:** A separately certified low-power transceiver module using Bluetooth technology which is housed in a desktop computer, laptop or peripheral does not require the overall system to be recertified, if the desktop computer, laptop or peripheral, as a stand-alone unit, complies with all applicable technical standards.

A handwritten signature of "Gail Birdsall" is written in blue ink. The signature is fluid and cursive, with "Gail" on the first line and "Birdsall" on the second line, with a small "B" preceding "Birdsall".

Gail Birdsall  
Hach Compliance Dept Manager

Phone: 970 669-3050 x2682

E-mail: [gbirdsal@hach.com](mailto:gbirdsal@hach.com)

PO Box 389

5600 Lindberg Dr.

Loveland, CO 80538 USA