

ThingMagic, Inc.
One Broadway, Fifth Floor
Cambridge, Massachusetts 02142



March 4, 2008

Dear Application Examiner:

ThingMagic is seeking a modular approval for the "M5e-Compact" embedded RFID module, FCC ID "QV5MERCURY5EC". This device meets the requirements for modular approval as detailed in FCC Public Notice DA00-1407. Compliance to each of the requirements is described below:

1. **"The modular transmitter must have its own RF shielding."** The radio portion of the module is contained in its own RF shielding. The shielding is installed at the factory. Please see the Internal Photos exhibit.
2. **"The modular transmitter must have buffered modulation/data inputs."** The M5e-Compact has buffered data inputs to insure compliance with Part 15 requirements. Please see the Schematics exhibit.
3. **"The modular transmitter must have its own power supply regulation."** The M5e-Compact has its own power supply regulation to insure compliance with Part 15 requirements regardless of the quality or level of external DC power to the module from the host system. Please see Schematics exhibit.
4. **"The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c)."** The M5e-Compact meets the FCC antenna requirements. The antenna used is the Cushcraft S8658WPR with integrated male MMCX connector. Please see Antenna information exhibit. The M5e has a female MMCX connector.
5. **"The modular transmitter must be tested in a stand-alone configuration."** The M5e-Compact was tested in a stand-alone configuration.
6. **"The modular transmitter must be labeled with its own FCC ID number."** The M5e-Compact is labeled with its own FCC ID number (see label exhibit) and when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: XYZMODEL1" or "Contains FCC ID: XYZMODEL1." These instructions are detailed in the Documentation exhibit.
7. **"The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements."** The M5e-Compact is compliant with all applicable FCC rules. Details are given in the Documentation exhibit.
8. **"The modular transmitter must comply with any applicable RF exposure requirements."** In order to comply with requirements for RF exposure safety, a separation distance of at least 20 cm needs to be maintained between the radiating elements of the antenna and the bodies of nearby persons. These instructions are detailed in the Documentation exhibit.

Please contact me if you have additional questions.

A handwritten signature in black ink, appearing to read "Paul Franzosa", with a long horizontal flourish extending to the right.

Paul Franzosa
Director of Systems Engineering
ThingMagic, Inc.