

February 23, 2009

Dear Application Examiner:

**General Dynamics Itronix, Corporation, Model: IX-512, FCC ID: KBCIX-512AN**, is seeking limited modular approval. The radio meets the requirements for modular approval as detailed in FCC 15.212. 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 EUT has buffered data inputs to insure compliance with Part 15 requirements under conditions of excessive data rates or over-modulation. Please see the Schematics exhibit.
3. **“The modular transmitter must have its own power supply regulation.”** The EUT has its own power supply regulation to insure compliance with Part 15 requirements regardless of the quality or level of external DC supplying the module from the host unit. Please see Schematics exhibit. Also, the technical report exhibit contains AC power line conducted emissions data taken with the EUT powered from a linear power supply that contains no EMC suppression components.
4. **“The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c).”** The EUT meets the FCC antenna requirements. Please see Antenna information exhibit and internal photos exhibit.
5. **“The modular transmitter must be tested in a stand-alone configuration.”** The module had previously been tested in a stand-alone configuration by the OEM for a full modular approval. For this specific application for **limited modular approval**, the EUT was not stand alone but embedded with in a host GD8000. Please see test setup photos exhibit and technical report exhibit.
6. **“The modular transmitter must be labeled with its own FCC ID number.”** The EUT is labeled with its own FCC ID number. Please see FCC ID label & location exhibit. Since the FCC ID number will not be visible when the module is installed inside the host pc, another label with the FCC ID will be applied to the exterior of the host pc.
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 EUT is compliant with all applicable FCC rules. Detail instructions for maintaining compliance are given in the User Manual.
8. **“The modular transmitter must comply with any applicable RF exposure requirements.”** The EUT is compliant with all applicable RF exposure requirements. Please see RF Exposure Exhibit.

Please contact me if you have additional questions. Your attention to this matter is greatly appreciated.

Best regards,



Mark Harwood  
Agency Engineering  
General Dynamics Itronix, Corporation