Request for Modular Approval

1. Modular Transmitter shielding.
    a. This transmitter has its own shielding on the PWB. Coupling between the rf circuitry and the digital and interface circuits are through feed-through capacitor and decoupling circuits.
2. Modulation/data input buffering.
    a. The modulation input lines into the rf transmitter circuitry are buffered to provide adequate isolation and modulation deviation is limited through the use a automatic limiting circuitry.
3. Power supply regulation
    a. The DC power supply input is regulated through the use of IC DC voltage regulatory circuitry.
4. Antenna connector
    a. The main antenna is integral to the PWB. When an external antenna is used, the integral antenna is automatically disconnected. The external antenna port connector is a non-standard connector that is not available to the general public. The external antennas suitable for this equipment are provided by the manufacturer to the OEM and the OEM is warned in the OEM manual that the use of any other antenna is prohibited.
5. Stand-alone test configuration.
    a. The EUT was tested outside of any metallic enclosure to demonstrate compliance without dependence upon any shielding provided by the end-product. The device was tested with the 6 pin connector port attached to a battery supply and a laptop computer via a 1.5 meter cable. This was deemed to be indicative of a worst-case OEM configuration.
6. A label exhibit is included with this filing. The OEM module addresses the label requirement, informing the OEM of their obligation to place the label on the outside of the end-product.
7. All of the timing and transmission requirements of 15.247 are completely controlled within the module and cannot be altered by the OEM.
8. This device complies with the mobile MPE requirements for uncontrolled exposure when the integral antenna is used. When the external antenna is used, the separation distance is 2 meters and the OEM is instructed to install the external antenna on a fixed outdoor structure such that unsuspecting persons are separated from the radiating elements by at least 2 meters.