

7/30/2009

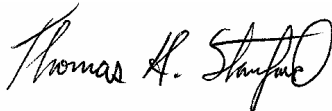
Request for Limited Modular Approval for BYMXCVR6K1 per DA 00-1407 and 47CFR15.

This module is for internal use only and will not be sold to other OEMs.

The following paragraphs address the 8 points required by the FCC for modular approval. Item #4 restricts the request to limited modular approval.

1. Module has it's own shielding.
2. The data input and output has buffers and takes the form of a PCM stream. It is not direct modulation. Actual modulation is controlled within the module itself.
3. The module runs from 5 volts DC +/-5%. All module voltages are derived from this input using various internal regulators.
4. Two antenna types are being approved with this module. The standard antenna connects directly to the main product using a reverse polarity TNC connector. The antenna connector used for all products containing this module is a reverse polarity TNC. The connectors on the module itself are MMCX. The module is always connected to the antenna by cables provided with the module that have the MMCX to reverse polarity TNC connectors. However, an optional antenna kit, designated EC20, consists of an antenna and several cables and a lightning arrester. The connectors used on the cables in this kit are type N. One of these cables supplies the type N to reverse TNC connection for the main product. The EC20 is always installed by HME or a trained technician. **For this reason HME requests limited modular approval.**
5. The module is tested stand alone. The module operates on DC power and so a lab power supply is used to simulate the DC power source. It is connected by a short cable that is longer than that used in a real product containing the module. The module usually plugs into a main PCB.
6. The module has its own label but will normally be contained in another product. The main product will have a label that says "contains..."
7. There is an installation manual to guide the installation of the main unit. The module is factory installed in the main unit and does not require an end user to install it. All products containing this module will be professionally installed by trained technicians.
8. The module complies with Section 15.247(b)(4). A statement goes in the manual for any product that contains this module that says "*The antenna(s) used for the base transmitter must be installed to provide a separation distance of at least 7.87 inches (20 cm) from all persons, and must not be co-located or operating in conjunction with any other antenna or transmitter.*"

Sincerely,



Thomas H. Stanford
Principal RF Engineer