



5/1/09

**Subject: Cover Letter Requesting Modular Approval**

**FCC id: KQL-4424200**

**IC: 2268C-4424200**

Aerocomm would like to apply for a modular FCC approval for FCC ID: KQL-4424200 transceiver in accordance with FCC public notice DA 00-1407. Listed below are the modular transmitter requirements followed by a manufacturer clarification for FCC ID: KQL-4424200.

**Rule 1.** The modular transmitter must have its own RF shielding.....

**Clarification:** KQL-4424200 has a permanently fixed shield attached at the factory.

**Rule 2.** The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation.

**Clarification:** The KQL-4424200 buffers the modulation and data in firmware. The buffering of data is controlled by Aerocomm's proprietary firmware. The OEM customer cannot adjust firmware to provide for excessive data rates or modulation parameters outside of the FCC approved modes.

**Rule 3.** The modular transmitter must have its own power supply regulation. This is intended to ensure that the module will comply with Part 15 requirements regardless of the design of the power supplying circuitry in the device into which the module is installed.

**Clarification:** The RF section of KQL-4424200 is regulated (parts U2 & U4) to maintain a stable consistent power output. KQL-4424200 is also equipped with a reset monitor to shut the radio down gracefully when a voltage outside of the specified operating range is supplied.

**Rule 4.** The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c). .....

**Clarification:** KQL-4424200 complies with the antenna requirements of Section 15.203 and 15.204(c). The RF connector is a MMCX and all antennas tested comply with the unique antenna connector requirement.

**Rule 5.** The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing. This is intended to demonstrate that the module is capable of complying with Part 15 emission limits regardless of the device into which it is eventually installed.....

**Clarification:** KQL-4424200 was tested in a stand alone configuration. A serial interface and power were supplied.

**Rule 6.** The modular transmitter must be labeled with its own FCC ID number, and, if the FCC ID is not visible 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.....

**Clarification:** KQL-4424200 has the FCC ID permanently printed on the module in white lettering at the time of manufacturing. The manual contains directions for OEM customers labeling requirements on their equipment.

**Rule 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.....

**Clarification:** KQL-4424200 complies with all specific rules applicable to a 2.4 GHz spread spectrum transmitter and any regulatory precautions are addressed in the manual.

**Rule 8.** The modular transmitter must comply with any applicable RF exposure requirements. ....

**Clarification:** KQL-4424200 is approved under mobile/ fixed classification and meets the applicable RF exposure requirements. Installation and RF exposure precautions are listed in the manual.