



**18 December 2014**

**Subject:** Cover Letter Requesting Modular Approval

**FCC ID: KQL-RM02410**

**IC: 2268C-RM02410**

Aerocomm would like to apply for a modular FCC approval for FCC ID: KQL-RM024-10 transceiver in accordance with FCC public notice KDB [996369 D01 Module Equip Auth Guide v01r04](#)

Listed below are the modular transmitter requirements followed by a manufacturer clarification for FCC ID: KQL-RM02410.

i The radio elements must have the radio frequency circuitry shielded. Physical components and tuning capacitor(s) may be located external to the shield, but must be on the module assembly;

**Clarification:** The RM024-10 has a permanently fixed shield attached at the factory.

ii The module must have buffered modulation/data inputs to ensure that the device will comply with Part 15 requirements with any type of input signal;

**Clarification:** The RM024-10 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.

iii The module must contain power supply regulation on the module;

**Clarification:** The RF engine and microcontroller on board the RM024-10 is the CC2510 (U2) which has an on board regulator to ensure stable operation of the internal RF controlling devices over the specified voltage range. The Front-end Module (U1) is powered by a Linear Regulator (U7) which stabilizes the operation of the module over a wide voltage range.

iv. The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b)

**Clarification:** The RM024-10 complies with the antenna requirements of Section 15.203 and 15.204. Either an integral antenna (WIC2450-A) or (S181-6-PX-2450S connected to u.fl RF connector) can be selected for use.

v The module must demonstrate compliance in a stand-alone configuration;

**Clarification:** The RM024-10 was tested in a stand alone configuration. A serial interface and power were supplied. See the test report for this device.

vi The module must be labelled with its permanently affixed FCC ID label, or use an electronic display (See KDB Publication 784748 about labelling requirements)

**Clarification:** The RM024-10 has the FCC ID printed on the label which is applied to the shield at the time of manufacturing. The manual contains directions for OEM customers labeling requirements on their equipment.

vii The module must comply with all specific rules applicable to the transmitter including all the conditions provided in the integration instructions by the grantee;

**Clarification:** The RM024-10 complies with all specific rules applicable to a 2.4 GHz spread spectrum transmitter and regulatory precautions are addressed in the manual.

viii The module must comply with RF exposure requirements

**Clarification:** The RM024-10 meets the applicable RF exposure requirements. Installation and RF exposure precautions are listed in the manual.