



Electronic
Controls
Design
Inc.

Electronic Controls Design Inc
Engineering Department
4287B SE International Way
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Federal Communications Commission
445 12th St SW
Washington, DC 20554

To Whom it may Concern,

Certification is being sought for wireless operation in the non-licensed band 2400MHz to 2483.5MHz inclusive for the Electronic Control Design model MegaM.O.L.E.®, otherwise designated as the ControlTek project EN403. This device uses an Atmel AT86RF230 RF transceiver as one end of a communication link to an Integration OEM-DAUB1-2400 USB based IEEE 802.15.4 compliant transceiver acting as a network coordinator. Note that the OEM-DAUB1-2400 is already FCC certified, having FCC ID UR2001, and this submission only references it anecdotally as the network coordinator device for the unit being certified, the MegaM.O.L.E.®.

Electronic Control Design, has a FRN of 0017567348, and the equipment ID code chosen for this device is MQEE47-6342-45. This device has a single antenna, operates in the 2400MHz to 2483.5MHz band, and uses offset QPSK as the modulation. The maximum output power at the transceiver terminals is +4dBm. The applicable FCC rule for unlicensed operation is CFR47.15.247. The RF exposure classification for this device is mobile. A limited modular approval is sought for the radio. The device has been tested to show compliance with FCC part 15c. The radio is part of a device which is used to measure thermal processes in situ and relay those measurements in real time for display to a process engineer or other technical monitor.

To support the application process, the data sheet for the an Atmel AT86RF230 RF transceiver used is enclosed as part of the submission packet. The complete radio and baseband architecture is contained within this one device. The MegaM.O.L.E.®. uses a simple SPI interface to communicate with the digital baseband section of this transceiver device.

Sincerely,

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