



December 2, 2012

Federal Communications Commission
7435 Oakland Mills Road
Columbia, MD 21046

Dear Sir/Madam,

This letter is to request single modular approval of the ETERNA1 2.4 GHz Wireless Mote per part 15.212. Dust Networks certifies the following requirements described in part 15.212:

- I. The ETERNA1 module has it's own RF Shielding
- II. No direct access is provided to the modulator / up converter and as such ETERNA1 can not be stimulated to over-modulate or modify the transmitters data rate
- III. The transmitter has it's own power supply regulation.
- IV. The ETERNA1 module provides a unique antenna coupler, MMCX.
- V. The ETERNA1 module has been tested in a configuration with supporting hardware will the sole purpose of providing power and a control mechanism.
- VI. The ETERNA1 module is labeled with its own FCC ID number, see document 895-0123 rev1 LABEL SPEC EXT APPROVALS LTP5900IPC.pdf.
- VII. The ETERNA1 module complies with all specific rules applicable to the transmitter. No option is provided to the integrator to modify the operation of the transmitter in this regard.
- VIII. The ETERNA1 complies with all RF exposure requirements by specification. The ETERNA1 module is not designed to be used so the radiating structure is within 20 cm of the body of the user. As such the module does not fall under the definition of a portable device per FCC Rules in Section 2.1093. While the ETERNA1 module qualifies as a mobile device per FCC Rules in Section 2.1091, the module has a maximum radiated output power of 0.01 Watts EIRP. As such, the module is below the 3 W power limit that would necessitate environmental evaluation for RF exposure. The ETERNA1 radio does not operate in the bands specified by 15.319(i), 15.407(f), 15.253(g) and 15.255(g).

Sincerely,

Gordon Charles
Director of VLSI / Hardware
Dust Networks, Inc.