



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 ETERNA2 2.4 GHz Wireless Mote per part 15.212. Dust Networks certifies the following requirements described in part 15.212:

- I. The ETERNA2 module has its own RF Shielding
- II. No direct access is provided to the modulator / up converter and as such ETERNA2 can not be stimulated to over-modulate or modify the transmitters data rate
- III. The transmitter has its own power supply regulation.
- IV. The ETERNA2 module provides a unique antenna coupler, MMCX.
- V. The ETERNA2 module has been tested in a configuration with supporting hardware will the sole purpose of providing power and a control mechanism.
- VI. The ETERNA2 module is labeled with its own FCC ID number, see document 895-0122 rev1 LABEL SPEC EXT APPROVALS LTP5901IPC.pdf.
- VII. The ETERNA2 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 ETERNA2 complies with all RF exposure requirements by specification. The ETERNA2 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 ETERNA2 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 ETERNA2 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.