

Re: Modular Transmitter Approval
FCC ID: PLQENC900

Gentlemen,

The following information is being provided per the requirements of DA00-1407 regarding modular approval of Part 15 devices.

This transceiver is a complete RF module with an integral reference oscillator.

External connections are provided for power, data communication, and antenna.

The following numbered items correspond to similarly numbered paragraphs in DA00-1407. Each item is a response to the requirements of that document.

- 1) The module has integral RF shielding to isolate it from surrounding equipment and the larger environment in general.
- 2) All inputs are processed as data by the on-board microcontroller. The outside user has no direct control of transmit modulation.
- 3) There is not a hardware voltage regulator on board. Instead, the microcontroller monitors power supply voltage on a continuous basis. Should the supply voltage be found to be outside of the normal specified operating parameters the unit will refuse to transmit. Further, conducted testing has shown that that unit operates within the stated Part 15 requirements when operated within the specified supply voltage range. (For FCC information only, the allowable operating voltage range is from 3.75VDC to 3.85VDC, the embedded microprocessor will refuse to transmit if supply voltage outside this range).
- 4) A NON standard MCX style connector is employed to prevent the use of antennas other than the type specified. ENCOM is also offering an RF jumper cable from MCX to RPTNC and permanently connected RPTNC pigtail in all the approved antennas. This is in accordance with Part 15.203.
- 5) The module was tested in a stand-alone configuration and found to be compliant with Part 15 regulations.

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- 6) An FCC ID label is affixed to each unit at the time of manufacture. Information is also clearly presented in the user guide about labeling requirements for the final assembly.
- 7) This unit is compliant with Part 15.247. Installation and other requirements are presented in the user guide to allow the unit to be correctly installed.
- 8) The unit is compliant with the RF exposure requirements of Parts 15.247, 15.1091, and 15.1093.

Further information may be obtained from Encom Wireless Data Solutions Inc.

Sincerely,



Mike Kwan

VP-Engineering
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