



Date: January 31, 2011

REF: RFID Board Version 1.4

FCC ID: Y5X53339474278

IC ID: 9443A-53339474278

Subject: 15.225 Modular Transmitters

(i) The radio elements of the modular transmitter must have their own shielding. The physical crystal and tuning capacitors may be located external to the shielded radio elements.

*Answer: There is no shielding on this product.*

(ii) The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with part 15 requirements under conditions of excessive data rates or over-modulation.

*Answer: This product has buffered-data IOs.*

(iii) The modular transmitter must have its own power supply regulation.

*Answer: There is no on-board regulator.*

(iv) The modular transmitter must comply with the antenna and transmission system requirements of §§ 15.203, 15.204(b) and 15.204(c). The antenna must either be permanently attached or employ a "unique" antenna coupler (at all connections between the module and the antenna, including the cable). The "professional installation" provision of § 15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section.

*Answer: The antenna is integrated into the PCB, not a separate entity.*

(v) The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing for compliance with part 15 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in § 15.207. AC or DC power lines and data input/output lines connected to the module must not contain ferrites, unless they will be marketed with the module (see § 15.27(a)). The length of these lines shall be the length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there is no coupling between the case of the module and supporting equipment. Any accessories, peripherals, or support equipment connected to the module during testing shall be unmodified and commercially available (see § 15.31(i)).

*Answer: This product cannot operate outside the host and will not be sold to third-party companies. This product will only be used inside products from ECOTality North America.*

(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.

*Answer: The product has a decal attached displaying the FCC identification number.*

(vii) The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization.

*Answer: Operation manual will be included with the product containing this RF unit.*

(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.

*Answer: Yes, the product complies with all RF exposure requirements; please refer to the MPE documentation.*

Sincerely,



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