



Date October 29, 2007

Federal Communications Commission

Dear Application Examiner,

**Request For A Limited Modular Approval - FCC ID: QQ6-BTR02**

**The Code Corporation is seeking FCC authorization for the use of our Radio Modem CR2AG-R0-01-02 as a limited modular RF transmitter.** The requirements of the FCC Public notice DA00-1407 are addressed as follows:

1. **The Modular Transmitter must have its own RF shielding.**  
The Radio Modem has its own RF shielding.
2. **The Modular Transmitter must have buffered modulation/data inputs.**  
The modulation/data inputs are buffered.
3. **The Modular Transmitter must have its own power supply regulation.**  
The Radio Modem requires a power supply specified at 3.3 VDC  $\pm$  0.1%
4. **The Modular Transmitter must comply with the antenna requirements of Section 15.203 and 15.204c**  
The antenna of this device is a 0 dBi Tyco antenna mounted on the printed circuit board of the Radio Modem and is not user replaceable.
5. **The Modular Transmitter must be tested in a stand-alone configuration.**  
The Radio Modem was tested in the requested "stand-alone" configuration.
6. **The Modular Transmitter must be labeled with its own FCC ID number.**  
The Radio Modem will be labeled with its own FCC ID number. The label as specified in the Radio Modem CR2AG-R0-01-02 Datasheet will be used. This module is only intended for use in products manufactured by The Code Corporation. An appropriate FCC label identifying the use of a limited modular device will be affixed to the final product.



7. **The Modular Transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements.**

The Radio Modem is only intended for use in products manufactured by The Code Corporation. The Code Corporation will provide final instructions to the end user of the completed product which will include appropriate labeling and other FCC requirements.

8. **The Modular Transmitter must comply with any applicable RF exposure requirements.**

The Radio Modem is only intended for use in products manufactured by The Code Corporation. The Code Corporation will provide the required distance either by the design of the final product into which the Radio Modem will be installed or by providing specific instructions to the end user regarding the minimum approved distance necessary to comply with this requirement.

The maximum permissible exposure is defined in 47 CFR 1.1310 with  $1 \text{ mW/cm}^2$ .

The minimum permitted distance is calculated using the general equation:

$$S = P \cdot G / 4\pi R^2$$

$$S = 1 \text{ mW/cm}^2$$

$$P = 44.7 \text{ mW (From test report)}$$

$$G = 0 \text{ dBi or unity (1)}$$

$$\pi = 3.1416$$

Solving for R, the minimum distance in cm is 1.88cm.

Please contact us if you have any additional questions.

Sincerely,

A handwritten signature in black ink that reads "Kevin Marriott".

Kevin Marriott  
Electrical Engineer  
Code Corporation