



September, 24, 2014

Federal Communications Commission  
Equipment Authorization Branch  
7435 Oakland Mills Road  
Columbia, MD 21046

**Re: Modular Approval for CN3200W1 Device, FCC ID: VEYCN3200W1**

Dear Sir or Madam,

As required in CFR 47 15.212 regarding unlicensed modular transmitter approval, the following information has been addressed. The transmitter module is a complete RF transmitter containing its own reference oscillator, antenna etc. The connections available on the module are for power and data interfaces only. Below please find information addressing each requirement from CFR 47 15.212.

**Per CFR 47 15.212**

(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.

**CN3200W1:** The CN3200W1 is manufactured with a permanently attached RF shield.

(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.

**CN3200W1:** The CN3200W1 buffers the modulation and data inputs ensuring compliance with regulations.

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

**CN3200W1:** The CN3200W1 incorporates regulators to ensure operation in specified range.

(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.

**CN3200W1:** The CN3200W1 incorporates an MMCX antenna connector but is assembled inside the host device which is then professionally installed.

(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)).

**CN3200W1:** The CN3200W1 was tested only within a specific host device (FCC ID: VEYCN3200R1) so we are seeking a limited modular approval in this regard.

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

**CN3200W1:** The CN3200W1 has required labeling placed on the module and is referenced in the host device's (FCC ID: VEYCN3200R1) external label.

(vii) The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to complete transmitter and manufacturer must provide adequate instructions along with module to explain any such requirements.

**CN3200W1:** The CN3200W1 complies fully with the operating requirements of CFR47 part 15C, paragraph 15.247.

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

**CN3200W1:** The CN3200W1 complies with applicable RF exposure requirements.

Sincerely,

Name: Roger G. Branton  
Title: CFO  
Signature of applicant: 