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***Request for FCC Modular Approval***

**September 9, 2017**

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

Dear Sir or Madam:

I certify that all exhibits contained within this filing properly describe the device or system for which certification is sought. I further certify that all the requirements contained within the Modular Approval Checklist have been met.

At this time, I request formal approval for Equipment Certification of this Modular Device, BRM1.

For reference, the modular Approval Checklist is attached.

Sincerely,

A handwritten signature in black ink, appearing to read "Fred Carpenter".

**(Signature)**  
**Name:** Fred Carpenter  
**Title:** VP - Standards

## Equipment Certification Requirements for Modular Apparatus

- (a) Single modular transmitters consist of a completely self-contained radiofrequency transmitter device that is typically incorporated into another product, host or device. Split modular transmitters consist of two components: a radio front end with antenna (or radio devices) and a transmitter control element (or specific hardware on which the software that controls the radio operation resides). All single or split modular transmitters are approved with an antenna. All of the following requirements apply, except as provided in paragraph (b) of this section.
- (b) Single modular transmitters must meet the following requirements to obtain a modular transmitter approval.

### Modular Approval Checklist:

Modular Approval Requirement	Yes	No *
(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.	✓	
(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.	✓	
(iii) The module shall have its own power supply regulation on the module.	✓	
(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.	✓	
(v) The modular transmitter must be tested in a stand-alone configuration, <i>i.e.</i> , 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)).	✓	
(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its 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.	✓	
(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	✓	