



VANTAGE

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June 19, 2017

Federal Communications Commission
7435 Oakland Mills Road
Columbia, MD 21046

Attn: OET Dept.
Re: FCC ID: PII-22713

To Whom It May Concern:

In accordance with Title 47 Section 15.212, Vantage Controls Inc. believes it has met all of the requirements set out in that document for the granting of a **Modular Approval**. Specifically, the criteria set out in Section 15.212 are addressed as follows:

1. RF Shielding

The ETII RF is produced with an RF shield soldered onto the board. The PCB is 4 layers. All RF components are on one layer, the bottom side which is layer 4. The 3rd layer is a ground plane. Layer 2 is a routing layer and the top layer is a split plane (Ground plane with routing for switches and LEDs). The RF shield encloses the entire transceiver (transmitter, receiver, LNA, PA, T/R switch). **The module does not rely on the host system in which it is installed to provide shielding.**

2. Data I/O

The data input and output pins run directly to the onboard microprocessor. The processor controls transmitter on/off time and modulation. This ensures that the transmitter spectrum remains independent of the module I/O pins.

3. Power Supply

The module operates from an input of 5-9VDC source. All circuitry critical to determining RF frequency or RF output power levels operate from an internally regulated 3.3V DC source.

4. Antenna

The module was tested with the following antennas:

Manufacturer	Model #	Type	Gain(dBi)	Minimum Cable Length
Ethertronics	M620720	Chip	2.6	N/A

This antenna uses a permanent solder connection to satisfy the requirement of section 15.203.

5. Testing

The module was tested as a stand-alone device utilizing its own shielding and filtering to achieve compliance.



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6. Labeling

The module contains the required FCC label (See Test Report) located on the shield. In cases where the module is installed inside another product, an additional label containing the following wording is placed on the outside of the final product:

This device contains Transceiver Module FCC ID: PII-22713

7. RF Exposure

Refer to the document "RF Exposure/Environmental Evaluation".

8. Product Integration

This modular transmitter has been developed for internal use by Vantage Controls. Vantage Controls has complete control of the end products that it will be used in and can ensure that all labeling and warning statements follow the guidelines listed above.

Sincerely,

A handwritten signature in black ink, appearing to read "Neil D. Elwood".

Neil D. Elwood, Hardware Engineer