



Tantalus Systems Corp.  
200-3555 Gilmore Way, Burnaby, BC Canada, V5G 0B3  
Tel. 604.299.0458 · Fax 604.451.4111  
[www.tantalus.com](http://www.tantalus.com)

April 25<sup>th</sup>, 2019

Timco Engineering, Inc.  
849 NW State Road 45  
P.O. Box 370  
Newberry, Florida 32669

Request for Limited Modular Approval

FCC ID: OZFNICSC6X01

**Host Name:** TRUEdge Streetlight Controller

To Whom It May Concern:

It is desired to obtain limited modular approval for the Part 15 device FCC ID: OZFNICSC6X01

The device will be integrated into two different streetlight controllers that have physical differences. The communication module PCB and circuitry are identical for both types, but the antenna changes between the 2 types to accommodate the physical differences of the housing. The intentional and unintentional radiated emissions were tested for both types of antennas.

The communication module does not have shielding around the front end section, but it was tested inside the host device to ensure that the radiated emissions are accurate and absolute.

The streetlight controlled is permanently sealed at the time of manufacture and cannot be opened without causing permanent damage.

This device is not a software defined radio, but it does have the ability to transmit using 3 different modulation rates (all of which have been tested by the regulatory compliance company). The end customer chooses at which modulation rate the device will operate.

For these reasons the application is for a limited modular approval. In accordance with Part 15.212 the device meets all of the remaining modular requirements:-

**The Antenna must be permanently attached.**

The connection from the RF front end and the antenna is permanently attached to the PCB of the communication module. It is not possible to attach another antenna to this configuration.

**The transmitter must have buffered modulation/data inputs.**

The transceiver has an internal data management unit inside that samples the data line and prevents over modulation. The end user cannot change the data rate, the transceiver has an internal state machine that cannot be changed by the end user.

**The module must demonstrate compliance in a stand-alone configuration**

The communication module was tested in the final host product as a stand-alone configuration.

**The transmitter must have its own power supply regulation.**

The unit incorporates its own DC linear regulation device with filtering. Changes to the applied DC input will have no effect on the operating conditions of the transmitter.

**The transmitter must be equipped with a permanently attached label.**

Complies; Refer to the label exhibits submitted with this application.

**The 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 module is compliant with all applicable FCC rules. Please refer to the user manual for a detailed description of field deployment instructions that must be adhered to.

**The transmitter must comply with any applicable RF exposure requirements.**

The unit meets RF exposure requirements as outlined in the RF exposure document attached to this exhibit.

Sincerely,



Mark Fairburn  
RF Design Engineer  
Tantalus Systems Corp.