



January 17, 2014
Telecommunication Certification Body (and/or)
Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, Maryland 21046

Subject: Application for Modular Approval, FCC ID: 2AA6CAEC2SOMENC1

Dear Application Examiner,

Aethon, Inc. is submitting this application for Limited Modular Approval of model 29311203 under FCC ID: 2AA6CAEC2SOMENC1. The device collocates a 418 MHz transmitter covered under Part 15.231 and a wireless module which operates in the 2.4 and 5 GHz bands FCC ID: 2AA6CWIFI6205PCIE. The module is designed to be installed exclusively in Aethon Autonomous Tug devices and as such no user manual or instructions are provided. Any and all compliance declarations or user exposure warnings for the module are included in the user manual for the host robot. The module meets the requirements of Part 15.212 as installed in Aethon Autonomous TUG robots. System authorization is sought under FCC 15.247 and 15.231. External photos for the device have been submitted with this application.

The antennas are non-typical polarity connectors, therefore compliant to FCC 15.203 unique antenna connector requirements.

The module meets the requirements of 15.212 in the following manner:

- i. The Wifi transmitter is a certified modular transmitter. The 418 MHz transmitter is enclosed in a shielded enclosure which houses all elements of the modular device.
- ii. All data inputs(USB, Ethernet, Serial Ports and generic digital), are buffered.
- iii. The modular transmitter contains internal power regulation for all voltages.
- iv. All antennas meet the "unique" antenna coupler requirement of 15.203. Regarding 15.204(b)(c), the device will only be utilized with the supplied antennas, and is designed to be operated as a whole system as installed in autonomous robots.
- v. The device was not tested in a stand alone condition, it was operated connected to the Autonomous robot type in which it is designed to be installed. Its design is such that it can only operate in its designed host type.

Your efforts in reviewing this application are greatly appreciated. Please contact me if there are questions or additional information needed concerning this request.

Sincerely,

David Schramm EMC Manager—SGS North America—
Signing for: Aethon, Inc.

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