



Version:	V1.50
Title:	Freeballooning Wireless Module Manual
Subtitle	Manual for FCC compliance for Wireless Module

## COVER LETTER REQUESTING PROFESSIONAL INSTALLATION

The following cover letter is to request professional installation of the installed antenna. In order to meet Section 15.203 Antenna Requirement this letter addresses the guidelines in KDB353028 D01 Antennas Part 15 Transmitters v01r01 Section A Part 2 Subpart (c) "Professional Installation"

The section is copied below and each item addressed individually:

### c) Professional installation

- i) Professional installation must be justified in the filing, and grant condition must state "This device must be professionally installed."

***This is written in the Limited Modular Application.***

- ii) Professional installation does not permit use of any antenna with the transmitter; the permitted types of antenna must be specified.

***This is addressed in Section: "Antennas Approved for Use with this Module"***

- iii) The applicant should address the following items when justifying professional installation.

- (1) To qualify for professional installation, the applicant must explain why the hardware is not readily available to average consumer.

***This hardware is intended to be installed into a single experimental flight vehicle. This vehicle is not for consumers or the general public. Therefore, it will not be available to the average consumer.***

- (2) Marketing—Device cannot be sold via retail to the general public or by mail order; it must be sold to authorized dealers or installers only.

***This hardware is intended to be installed into a single experimental flight vehicle. This vehicle is not for consumers or the general public. Therefore, it will not be sold to any person in any fashion.***

- (3) Filing must show that intended use is not for consumers and general public; rather device is generally for industrial/commercial use.

***This hardware is intended to be installed into a single experimental flight vehicle. This vehicle is not for consumers or the general public.***

- (4) Explain what is unique, sophisticated, complex, or specialized about the equipment that REQUIRES it to be installed by a professional installer?

***This hardware is intended to be installed into a single experimental flight vehicle. It will be used by personnel who will be required to enter and exit the vehicle, and will also need to be trained to interact with the hardware safely. Furthermore, this hardware is to be used as a specialized emergency system for the flight vehicle. Therefore***



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***controlled and trained interaction with the hardware is necessary in order to ensure its functionality is maintained.***

iv) Other professional installation requirements.

(1) Installation must be controlled.

(2) Installed by licensed professionals (e.g., device sold to dealer who hire installers).

(3) Installation requires special training (e.g., special programming, access to keypad, field strength measurements made).

**Please see the below statements to address items (1) to (3) above**

- ***Certified radio modules are to be installed in an end product, carrier board + enclosure, by an LTA electrical engineer, LTA electronics technician, or a Licensed A&P.***
  - ***End product will be installed into the aircraft by a Licensed A&P.***
  - ***Only LTA electrical engineer, LTA electronics technician, or a Licensed A&P. who is approved by LTA will be permitted to install antennas onto the end product.***
  - ***Only approved antennas may be installed onto the device. See “Section 4. Antennas Approved for Use with this Module” for approved antennas.***
  - ***Installation must follow the restrictions listed in “Section 3: RF Exposure, Radio Collocation, and Installation Restrictions”***
  - ***Approval to install antennas will follow training to perform at minimum the following process***
    - ***The certified module’s antenna will be attached to the enclosure secured with loctite on the threaded connector***
    - ***The installer name and date that it was installed along with module P/N and antenna P/N will be tracked.***
  - ***A statement signifying “the device, antenna assembly, and the antenna are not to be removed or handled by individuals unapproved by LTA” shall be clearly visible on the outside of the enclosure.***
  - ***End product will only be accessed and/or removed by a Licensed A&P.***
  - ***If the antenna needs to be removed, the same procedures for installing will be used to track name and time.***