



**LMA Request**  
Attention Director of Certification for FCC:

Low Cost 2.4 GHz Transmitter	Version: 1.0
LMA Request	Date: 11/17/2009 10:07:35 AM

## Revision History

<b>Date</b>	<b>Version</b>	<b>Description</b>	<b>Author</b>
10/20/2009	1.0	Original.	Chris S. Russell

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**Traxxas hereby requests Limited Modular Approval for the product identified by  
FCC ID: XVE-SA09181, based on the following.**

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## **1. Limitation Criteria**

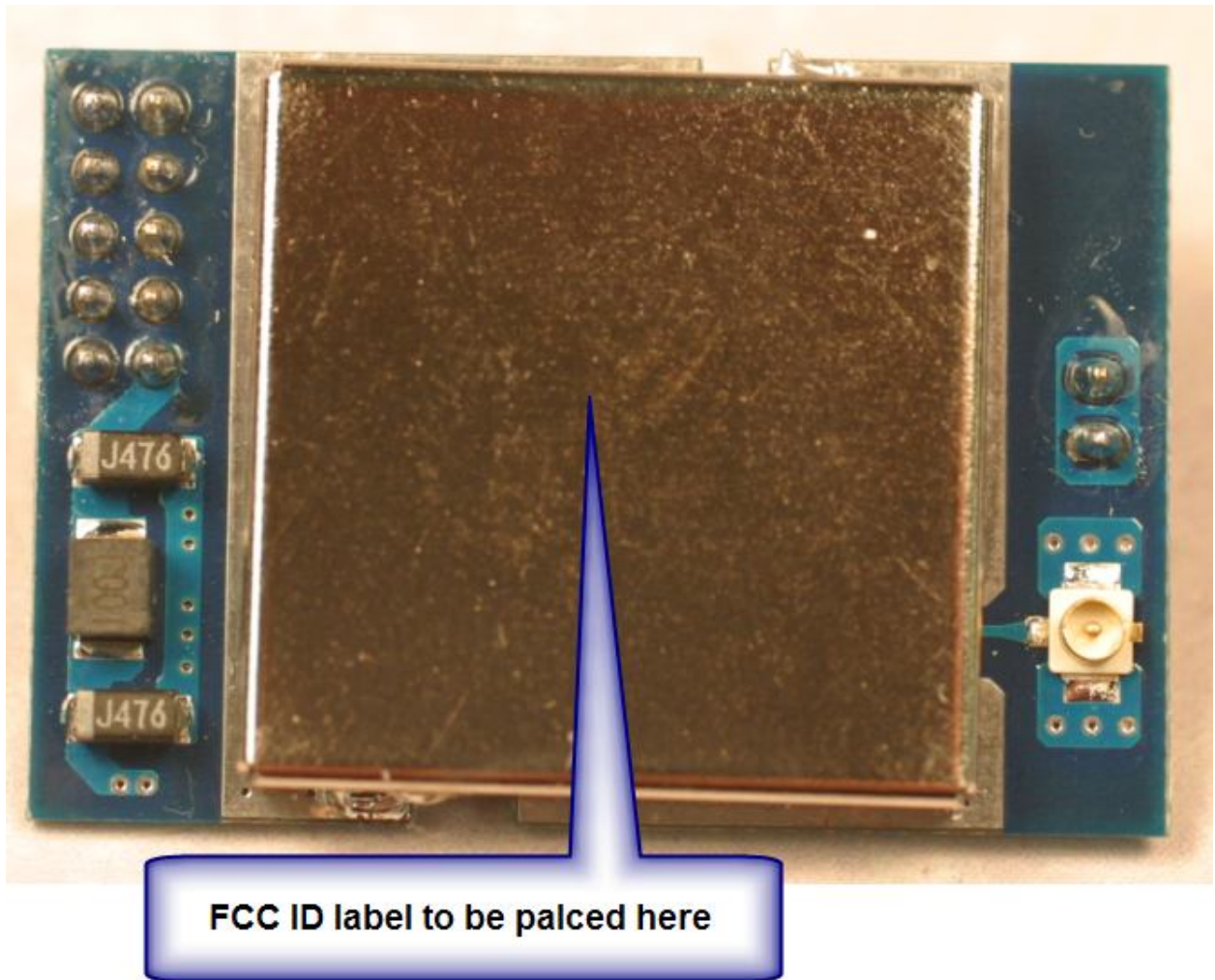
**This module is to only be used in conjunction with Traxxas main processor boards.**

**This module will not be sold as a stand alone product to third parties.**

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## 2. RF Shielding

In compliance with FCC part 15 limits, the RF module has its own shielding.



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### 3. Buffered Data Inputs

In compliance with FCC part 15, the Cypress CYRF6936/7936 provides buffering on the data inputs.

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#### 4. Power Supply

It is required that Traxxas LLP place the text below in the product user guide along with all other pertinent regulatory information.

**Note: This is a battery operated device.**

We are only using the module on our own motherboard, and there is sufficient filtering on the module for the supplied voltage supply.

The requirements for FCC Limited Modular Approval were released in **March 2009** in the FCC's Public Notice: FCC Public Notice **DA-08-672**, Part 15 Unlicensed Modular Transmitter Approvals.

##### Design Criteria for Modular Approval

General Conditions:

The following conditions must be strictly adhered to for modular approval:

- 1. No modification to the module including the circuitry is permitted.**
- 2. Design criteria to include antenna, interconnects, and local oscillator.**
- 3. Testing of the final device configuration for Digital Emissions Compliance**

The Spectrum 2.4Ghz, TX RF Daughter Board Module may not be altered or modified in any manner by the OEM or other entity. Additionally, no component may be added which could change the radio frequency (RF) characteristics. These include, but are not limited to unintentional or spurious emissions, immunity, ESD characteristics, or other items commonly associated with RF devices. This includes all components; passive and active. Additionally, no RF components may be placed between the RF output of the module and the antenna.



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## 5. Stand-Alone Testing

This module was tested by a third party FCC certification lab (Nemko), in a stand –alone configuration, to the extent that it is not dependant upon any RF filtering, data line filtering, or DC line conditioning. However, this module does rely on the power source of the main board it is plugged in to.

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## 6. Antenna

The antenna is connected via a micro SMA connector, and has been approved through third party certification.

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## 7. Certification Testing

The modular RF unit was tested in a stand-alone configuration by a third party certification company.

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## 8. FCC ID

The FCC ID label is located on the RF shielding of the module.

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## 9. Instructions

The instructions for the installation of the RF module are published in the Users Manual.

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## 10. Modular Approval

Traxxas is responsible for testing the end product for all emissions.

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## 11. RF Exposure Warning

There is an RF exposure warning published in the Users Manual.

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