



4 January 2017

Modular Approval Request Letter

To Whom It May Concern:

NVIDIA Corporation is requesting modular approval authorization for an Embedded System Module, FCC ID: VOB-P3310, which supports IEEE 802.11 a/b/g/n/ac Wireless LAN and Bluetooth.

The requirements of section 15.212 of the FCC rules have been met as indicated in the following statements:

1. *"The radio elements of the modular transmitter must have their own shielding. The physical crystal and tuning capacitors may be located external to the shielded radio elements."*

Complies: The radio portion of this module is shielded. Please refer to the device photographs.

2. *"The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation"*

Complies: The buffered data input is integrated in the Broadcom BCM4354 single chip radio.

3. *"The modular transmitter must have its own power supply regulation."*

Complies: This module utilizes an internal power management unit.

4. *"The modular transmitter must comply with the antenna and transmission system requirements of Sections 15.203, 15.204(b) and 15.204(c). The antenna must either be permanently attached or employ a "unique" antenna coupler (at all connections between the module and the antenna, including the cable). The "professional installation" provision of Section 15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section"*

Complies: This module meets the FCC antenna requirements. Please refer to the test report and device photographs.

5. *"The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing for compliance with Part 15 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in Section 15.207. AC or DC power lines and data input/output lines connected to the module must not contain ferrites, unless they will be marketed with the module (see Section 15.27(a)). The length of these lines shall be the length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there is no coupling*

between the case of the module and supporting equipment. Any accessories, peripherals, or support equipment connected to the module during testing shall be unmodified and commercially available (see Section 15.31(i)). ”.

Complies: The module was tested in a stand-alone configuration. Please refer to the test report.

6. *“The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.*

(A) If using a permanently affixed label, the modular transmitter must be labeled with its own FCC identification number, and, if the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: “Contains Transmitter Module FCC ID: XYZMODEL1” or “Contains FCC ID: XYZMODEL1.” Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization.”.

Complies: The modular transmitter is labeled with its own FCC identification number: “VOB-P3310”. Please refer to the label sample and location information in the test report.

7. *“The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization.”.*

Complies: The module is compliant with all applicable FCC rules. Please refer to the integration instructions.

8. *“The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.”.*

Complies: The module is compliant with all applicable RF exposure requirements. Please refer to the test report

If you have any questions regarding this request, please feel free to contact me.

Best Regards,



Charles Jackson
Compliance Engineering Manager
NVIDIA Corporation