

Meru 802.11abgn WLAN PCIe Radio Module

Regulatory Information

Model: 250-02193-010 Peacock
250-02193-010 Peacock_XTAL

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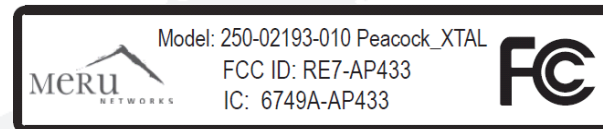
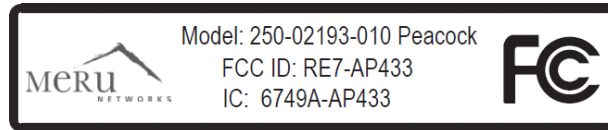
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1 Overview

This specification is applied to the products as follows:

Meru WLAN radio module: 250-02193-010 Peacock and 250-02193-010 Peacock/_XTAL



2 Technical Specification

Type and Specification	250-02193-010 Peacock	250-02193-010 Peacock_XTAL
Frequency Range	2412 to 2462 MHz 5180 to 5240 MHz 5745 to 5825 MHz	2412 to 2462 MHz 5180 to 5240 MHz 5745 to 5825 MHz
RF Output Power	2412 to 2462 MHz = 20 dBm 5180 to 5240 MHz = 17 dBm 5745 to 5825 MHz = 20 dBm	2412 to 2462 MHz = 20 dBm 5180 to 5240 MHz = 17 dBm 5745 to 5825 MHz = 20 dBm
Receiver Sensitivity	2412 to 2462 MHz = -82 dBm 5180 to 5240 MHz = -80 dBm 5745 to 5825 MHz = -76 dBm	2412 to 2462 MHz = -82 dBm 5180 to 5240 MHz = -80 dBm 5745 to 5825 MHz = -76 dBm
Bandwidth	11, 20 and 40 MHz	20 and 40 MHz
Modulation	DSSS, OFDM	DSSS, OFDM
MIMO Type	3 x 3	3 x 3
Power Consumption	2.5 watts	2.5 watts
Interface	PCIe	PCIe
Antenna Used	Internal and external type	Internal and external
Working Temperature	0 to 50 degrees (°C)	0 to 50 degrees (°C)
Humidity	5 to 95%	5 to 95%

3 Product Application

The Meru Peacock radio module is an 802.11a/b/g/n 3 x 3 MIMO half duplex PCIe radio module is integrated inside a WLAN Access point at the manufacturing facility during the assembly before shipping to the customer. Each AP uses 2 or 3 radios depending upon the AP models. The WLAN Access point is used by the enterprises customers, Education Institution and Health care industry for WLAN data and voice connection from PC, Laptop and portable computing devices.

4 Regulatory Information

Information for the OEMs and Integrators

The following statement must be included with all versions of this document supplied to an OEM or integrator, but should not be distributed to the end user.

This device is intended for OEM integrators only.

Please see the full Grant of Equipment document for other restrictions.

This device must be operated and used with a locally approved access point.

Any changes or modifications to this product not expressly approved by Meru Networks Inc. could void the user's authorization to operate the product.

Information to Be Supplied to the End User by the OEM or Integrator

The following regulatory and safety notices must be published in documentation supplied to the end user of the product or system incorporating the Meru wireless adapter, in compliance with local regulations. Host system must be labeled with "Contains FCC ID: XXXXXXXX", FCC ID displayed on label. The Meru wireless adapter must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product. Meru Networks Inc is not responsible for any radio or television interference caused by unauthorized modification of the devices included with the wireless adapter kit or the substitution or attachment of connecting cables and equipment other than that specified by Meru Networks Inc. The correction of interference caused by such unauthorized modification, substitution or attachment is the responsibility of the user. Meru Networks Inc and authorized resellers or distributors are not liable for any damage or violation of government regulations that may arise from the user failing to comply with these guidelines.

FCC Radio Frequency Interference Requirements

This wireless adapter is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range. FCC requires this wireless adapter to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel mobile satellite systems. High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and /or damage this device.

This wireless adapter is intended for OEM integrators only.

This wireless adapter cannot be co-located with any other transmitter unless approved by the FCC.

USA - Federal Communications Commission (FCC)

This wireless adapter complies with Part 15 of the FCC Rules. Operation of the device is subject to the following two conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept any interference that may cause undesired operation.

NOTE: The radiated output power of the adapter is far below the FCC radio frequency exposure limits. Nevertheless, the adapter should be used in such a manner that the potential for human contact during normal operation is minimized. To avoid the possibility of exceeding the FCC radio frequency exposure limits, you should keep a distance of at least 20 cm between you (or any other person in the vicinity), or the minimum separation distance as specified by the FCC grant conditions, and the antenna that is built into the computer. Details of the authorized configurations can be found at <http://www.fcc.gov/oet/ea/> by entering the FCC ID number on the device.

Interference Statement

This wireless adapter has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This wireless adapter generates, uses, and can radiate radio frequency energy. If the wireless adapter is not installed and used in accordance with the instructions, the wireless adapter may cause harmful interference to radio communications. There is no guarantee, however, that such interference will not occur in a particular installation. If this wireless adapter does cause harmful interference to radio or television reception (which can be determined by turning the equipment off and on), the user is encouraged to try to correct the interference by taking one or more of the following measures:

Reorient or relocate the receiving antenna of the equipment experiencing the interference.

Increase the distance between the wireless adapter and the equipment experiencing the interference.

Connect the computer with the wireless adapter to an outlet on a circuit different from that to which the equipment experiencing the interference is connected.

Consult the dealer or an experienced radio/TV technician for help.

NOTE: The adapter must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product. Any other installation or use will violate FCC Part 15 regulations.

Canada – Industry Canada (IC)

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Caution: When using IEEE 802.11a wireless LAN, this product is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range. Industry Canada requires this product to be used indoors for the frequency range of 5.15 GHz to 5.25 GHz to reduce the potential for harmful interference to co-channel mobile satellite systems. High power radar is allocated as the primary user of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage to this device.

To comply with RF exposure requirements all antennas should be located at a minimum distance of 20 cm, or the minimum separation distance allowed by the module approval, from the body of all persons.

IMPORTANT NOTE: In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

End Product Labeling

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: “Contains FCC ID: RE7-AP433”, “Contains IC: 6749A-AP433”

Manual Information to the End User

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user’s manual of the end product which integrates this module.

The end user manual shall include all required regulatory information/warning as show in this manual.

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