



# User Guide

## **Product Overview**

The devices Mini PCI-e adapter cards contain an Realtek chip for Wireless LAN and Bluetooth applications. The mini PCI-e adapter cards support key security features like Wi-Fi Protected Access (WPA), WPA2, WEP, 802.1x and Bluetooth v4.2.

Typical application of the card is integration into other wireless products such as AP/ Router which is used distance 20 cm away human body.

## **Packaging Contents**

The mini PCI-e card package contains the following item(s):

1 x Wireless Mini PCI-e Adapter

## **Installation guide**

- Shut down the power of the platform
- Align the Mini PCI-e adapter with the Mini PCI-e socket on the platform
- Adjust and push down the Mini PCI-e adapter gently until the metal locking levers on the Mini PCI-e socket is latched. (Please take note that the Mini PCI-e adapter can only fit in one direction due to the keyed notch. Wrong orientation will cause improper installation and may damage the Mini PCI-e socket)
- Connect the antenna(s) on the mini PCI-e module
- Reboot on the platform
- Install drivers if necessary

## **Frequency**

2412 ~ 2462 MHz

5180 ~ 5240MHz, 5260 ~5340MHz, 5490~5725MHz, 5745 ~ 5825MHz

Connector: Reverse U.FL PLUG, MHF4 PLUG

## Federal Communication Commission Interference Statement

This equipment 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 equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment 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 one of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help.

**FCC Caution:** To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

## End Product Labeling

This transmitter module is authorized only for use in devices 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 visible area with the following: **"Contains FCC ID: W23-WMU62XX"**  
"

## End Product Manual Information

The user manual for end users must include the following information in a prominent location "IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be colocated or operating in conjunction with any other antenna or transmitter." This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) This device may not cause harmful interference and (2) This device must accept any interference received, including interference that may cause undesired operation.

**IMPORTANT NOTE:** In the event that these conditions can not be met (for example certain laptop configurations or colocation 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 reevaluating the end product (including the transmitter) and obtaining a separate FCC authorization. This device is intended only for OEM integrators under the following conditions: The antenna must be installed such that 20 cm is maintained between the antenna and users. As long as a condition above is met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

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

### **FCC Caution:**

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**Radiation Exposure Statement:**

The product is a low power device and its output power is lower than FCC SAR exemption level.

**This device is intended only for OEM integrators under the following conditions:**

The transmitter module may not be co-located with any other transmitter or antenna.

The co-transmitting with other radio will need a separate evaluation.

As long as this condition is met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed

**IMPORTANT NOTE:** In the event that this condition cannot 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 cannot 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**

The final end product must be labeled in a visible area with the following: “**Contains FCC ID: W23-WMU62XX**”. The grantee's FCC ID can be used only when all FCC compliance requirements are met.

**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.