

JWX6052/JWX6053 Mini PCI-e User's Manual

1. Product Overview

The JWX6052 Mini PCI-e adapter cards contain an Atheros QCA9880 chip, and the JWX6053 Mini PCI-e adapter cards contain an Atheros QCA9890 chip for IEEE 802.11a/b/g/n/ac Wireless LAN applications. The mini PCI-e adapter cards support key security features like Wi-Fi Protected Access (WPA), WPA2, WEP and 802.1x.

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

2. Packaging Contents

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

1 x Wireless Mini PCI-e Adapter

3. 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

4. Frequency

802.11b/g/n: 2412 ~ 2462 MHz

802.11a/an/ac: 5180 ~ 5825MHz

Connector: Reverse U.FL PLUG

5. Federal Communication Commission Interference Statement

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.

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.

6. 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.

7. FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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

- 1) The antenna must be installed such that 20 cm is maintained between the antenna and users, and the maximum antenna gain allowed for use with this device is 5 dBi.
- 2) The transmitter module may not be co-located with any other transmitter or antenna.

As long as 2 conditions above are 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

9. Important Notes

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.

10. 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: W23-JWX5253**”. The grantee's FCC ID can be used only when all FCC compliance requirements are met.

11. 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.

Appendix

The antenna information for certification is listed as below;

- Frequency : 2400 ~ 2500 MHz, 5150 ~ 5850 MHz
- Gain : 5 dBi
- VSWR : ≤ 2.0
- Type : Omni-directional
- Impedance : 50 Ohm
- Connector Type : SMA Male Reverse