



# Half PCIe MINI CARD

## WLE200N2

WIRELESS-BGN 2 x 2 NETWORK MINIPCI-E ADAPTER

### Superior Performance for Multimedia Networking

WLE200N2 is an 802.11n Single-Band wireless mini pci express Half Mini Card based on Atheros AR9287 chipset. It supports 2T2R (2-stream) function, which provides maximum data rate up to 300Mbps and improves the overall Wi-Fi coverage area.

### Secure Wireless Connection

This Mini PCIe wireless card, WLE200N2, incorporated advanced security encryption, such as WPA, and WPA2, to help prevent users' devices from malicious attacks.

## Features

- Atheros HB97 reference design
- IEEE 802.11n compliant and backward compatible with 802.11b/g
- 2.4GHz Single-band 2 x 2 MIMO spatial multiplexing technique
- Output Power up to 16dBm
- Supports up to 300Mbps physical data rates
- Multi-Country Roaming Supported
- 2 x U.FL Antenna Connector
- Compliant with PCI-Express Mini Card 1.1 Standard
- Enhanced wireless security: WEP, WPA, WPA2
- Support Windows XP/ Vista, Win 7, Android by request

| Technical Specifications          |  |  |  |        |        |        |        |       |       |               |  |
|-----------------------------------|--|--|--|--------|--------|--------|--------|-------|-------|---------------|--|
| <b>Chipset</b>                    | AR9287   |  |  |        |        |        |        |       |       |               |  |
| <b>Host Interface</b>             | PCI-Express 1.1 Standard   |  |  |        |        |        |        |       |       |               |  |
| <b>Operating Voltage</b>          | DC 3.3 V±9%  |  |  |        |        |        |        |       |       |               |  |
| <b>Power Consumption</b>          | Continue TX 570mA<br>Continue Rx 530mA   |  |  |        |        |        |        |       |       |               |  |
| <b>Antenna Connector</b>          | 2 x U.FL Antenna Connector   |  |  |        |        |        |        |       |       |               |  |
| <b>Output Power (2T)</b>          | 802.11b: 16dBm ± 1.5dBm@11Mbps<br>802.11g: 11dBm ± 1.5dBm@54Mbps<br>802.11gn HT20: 12dBm ± 1.5dBm@MCS7<br>802.11gn HT40: 11dBm ± 1.5dBm@MCS7 |  |  |        |        |        |        |       |       |               |  |
| <b>Receive Sensitivity (2R)</b>   | 802.11b: -88dBm ± 2dBm@11Mbps<br>802.11g: -70dBm ± 2dBm@54Mbps<br>802.11gn HT20: -67dBm ± 2dBm@MCS7<br>802.11gn HT40: -65dBm ± 2dBm@MCS7     |  |  |        |        |        |        |       |       |               |  |
| <b>Standards</b>                  | IEEE 802.11b :   | 11Mbps   | 5.5Mbps  | 2Mbps  | 1Mbps  |        |        |       |       |               |  |
|                                   | IEEE 802.11g :   | 54Mbps   | 48Mbps   | 36Mbps | 24Mbps | 18Mbps | 12Mbps | 9Mbps | 6Mbps | automatically |  |
|                                   | Fallback to 5.5Mbps, 2Mbps, 1Mbps  |  |  |        |        |        |        |       |       |               |  |
|                                   | IEEE 802.11n :   | 20MHZ  | 1Nss: 65Mbps @ 800GI, 72.2Mbps @ 400GI (Max.)<br>2Nss: 130Mbps @ 800GI, 144.4Mbps @ 400GI (Max.) |        |        |        |        |       |       |               |  |
|                                   |  | 40MHZ  | 1Nss: 135Mbps @ 800GI, 150Mbps @ 400GI (Max.)<br>2Nss: 270Mbps @ 800GI, 300Mbps @ 400GI (Max.)   |        |        |        |        |       |       |               |  |
| <b>Frequency Range</b>            | IEEE 802.11b/g/n:  | 2.412GHz ~ 2.462GHz (US & Canada)<br>2.412GHz ~ 2.472GHz (Europe)<br>2.412GHz ~ 2.484GHz (Japan) |  |        |        |        |        |       |       |               |  |
| <b>Modulation Techniques</b>      | OFDM: BPSK, QPSK, 16 QAM, 64QAM<br>DSSS: DBPSK, DQPSK, CCK   |  |  |        |        |        |        |       |       |               |  |
| <b>Environment Specifications</b> | Operating: -20°C to 70°C<br>Storage: -40°C to 90°C   |  |  |        |        |        |        |       |       |               |  |
| <b>Humidity</b>                   | 5% to 95% (non-condensing)   |  |  |        |        |        |        |       |       |               |  |
| <b>Weight</b>                     | ≤9g  |  |  |        |        |        |        |       |       |               |  |
| <b>Dimension</b>                  | 30mm x 26.8mm x 3.45mm   |  |  |        |        |        |        |       |       |               |  |

### Ordering Informaion<sup>①</sup>

| Model Code      | Chipset | Form Factor | CARD INFORMATION            |
|-----------------|---------|-------------|-----------------------------|
| WLE200N2 6A0000 | AR9287  | Half Size   | 802.11 b/g/n PCIe mini card |

- ① Configurations are subject to change without notice  
Please contact Compex sales representatives for other available configurations

## Compliance Information

### FCC Compliance 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 device must accept any interference received, including interference that may cause undesired operation. Product that is a radio transmitter is labeled with FCC ID.

### FCC Caution:

(1) Exposure to Radio Frequency Radiation. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

(2) Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

(3) This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

(4) Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

(5) Outdoor Operations in the 5.15~5.25GHz band is prohibited.

**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.

**WARNING:** This Wireless Mini PCI Adapter does not support ad-hoc mode Function

## FCC ID: TK4WLE200N2

### 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.

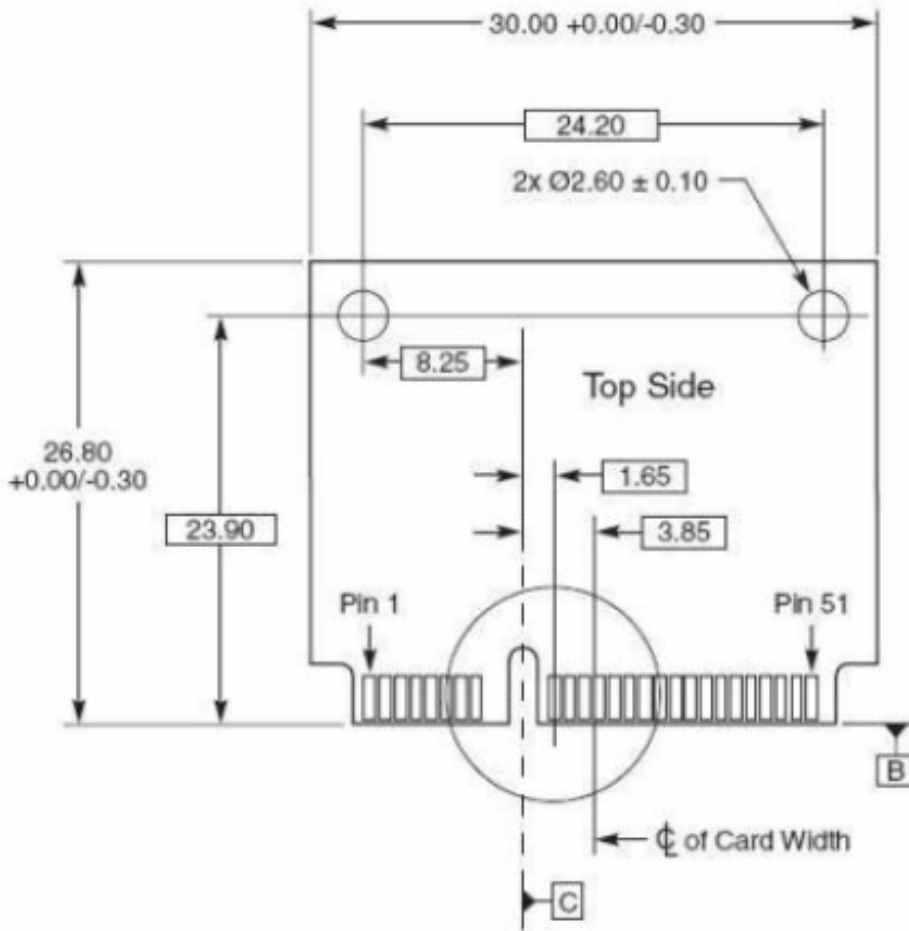
The final end product must be labeled in a visible area with the following:

Contains FCC ID: TK4WLE200N2

### 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 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.

**DIMENSIONS DRAWING**



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