



# Half PCIe MINI CARD

## YBTE2N9287

2 x 2 802.11b/g/n Single-band MIMO mini-PCIe

### Superior Performance for Multimedia Networking

YBTE2N9287 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, YBTE2N9287, 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
- Complaint 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                      |                                                                                                                                              |                                   |                                                 |        |        |        |        |       |       |               |  |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------|--------|--------|--------|--------|-------|-------|---------------|--|
| Chipset                                       | AR9287                                                                                                                                       |                                   |                                                 |        |        |        |        |       |       |               |  |
| Host Interface                                | PCI–Express 1.1 Standard                                                                                                                     |                                   |                                                 |        |        |        |        |       |       |               |  |
| Operating Voltage                             | DC 3.3 V±9%                                                                                                                                  |                                   |                                                 |        |        |        |        |       |       |               |  |
| Power Consumption                             | 1.8W-1.9W                                                                                                                                    |                                   |                                                 |        |        |        |        |       |       |               |  |
| Antenna Connector                             | 2 x U.FL Antenna Connector                                                                                                                   |                                   |                                                 |        |        |        |        |       |       |               |  |
| Output Power (2T)                             | 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 |                                   |                                                 |        |        |        |        |       |       |               |  |
| Receive Sensitivity (2R)                      | 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     |                                   |                                                 |        |        |        |        |       |       |               |  |
| Standards                                     | 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.)   |        |        |        |        |       |       |               |  |
|                                               |                                                                                                                                              |                                   | 2Nss: 130Mbps @ 800GI, 144.4Mbps @ 400GI (Max.) |        |        |        |        |       |       |               |  |
|                                               |                                                                                                                                              | 40MHz                             | 1Nss: 135Mbps @ 800GI, 150Mbps @ 400GI (Max.)   |        |        |        |        |       |       |               |  |
| 2Nss: 270Mbps @ 800GI, 300Mbps @ 400GI (Max.) |                                                                                                                                              |                                   |                                                 |        |        |        |        |       |       |               |  |
| Frequency Range                               | IEEE 802.11b/g/n:                                                                                                                            | 2.412GHz ~ 2.462GHz (US & Canada) |                                                 |        |        |        |        |       |       |               |  |
|                                               |                                                                                                                                              | 2.412GHz ~ 2.472GHz (Europe)      |                                                 |        |        |        |        |       |       |               |  |
|                                               |                                                                                                                                              | 2.412GHz ~ 2.484GHz (Japan)       |                                                 |        |        |        |        |       |       |               |  |
| Modulation Techniques                         | OFDM: BPSK, QPSK, 16 QAM, 64QAM<br>DSSS: DBPSK, DQPSK, CCK                                                                                   |                                   |                                                 |        |        |        |        |       |       |               |  |
| Environment Specifications                    | Operating: -20°C to 70°C<br>Storage: -40°C to 90°C                                                                                           |                                   |                                                 |        |        |        |        |       |       |               |  |
| Humidity                                      | 5% to 95% (non-condensing)                                                                                                                   |                                   |                                                 |        |        |        |        |       |       |               |  |
| Weight                                        | ≤9g                                                                                                                                          |                                   |                                                 |        |        |        |        |       |       |               |  |
| Dimension                                     | 30mm x 26.8mm x 3.45mm                                                                                                                       |                                   |                                                 |        |        |        |        |       |       |               |  |

## Ordering Informaion<sup>①</sup>

| Model Code | Chipset | Form Factor | CARD INFORMATION            |
|------------|---------|-------------|-----------------------------|
| YBTE2N9287 | AR9287  | Half Size   | 802.11 b/g/n PCIe mini card |

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

## DIMENSIONS DRAWING

