

# WPEB-103AG

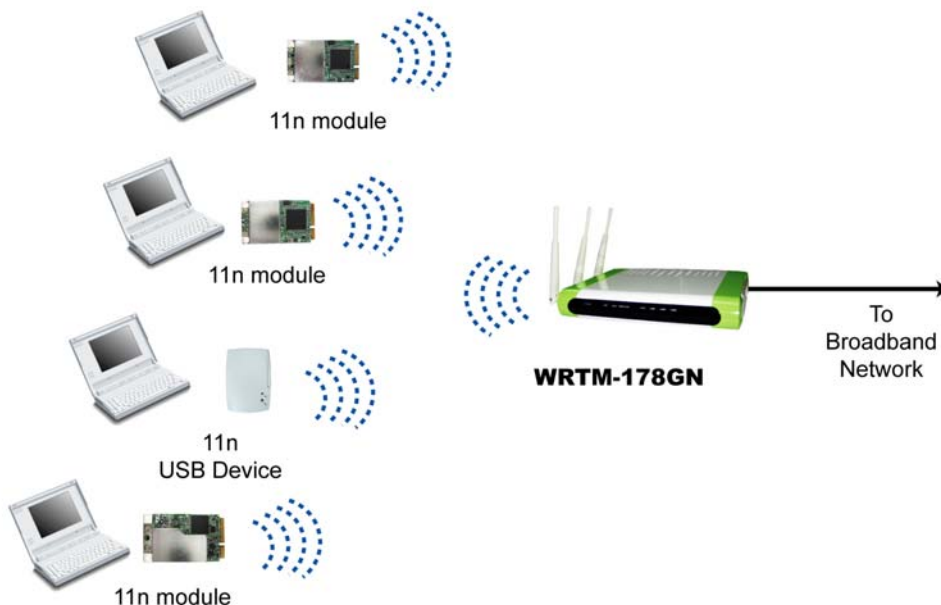
## 802.11 a/b/g/draft2.0 n 2x2 WLAN PCIe Mini Card



- **PCI Express interface**
- **High-Speed Mode at 300 Mbps**
- **Seamless roaming from cell to cell and between 802.11a/g/b to 802.11n**

Gemtek Technology Co., Ltd. introduces a next generation WLAN PCIe Mini card. The Wireless Mini Card is compliant with IEEE 802.11a/g/b standards and 802.11n draft 2.0 and operates on 2.4GHz and 5GHz frequencies. It can be used to provide up to 300Mbps for IEEE 802.11n draft 2.0, or 54Mbps for IEEE 802.11g, or 11Mbps for IEEE 802.11b to connect your wireless LAN. The module features draft-802.11n-compliant radio in 2x2 (TX/RX) configuration offering performance and enhanced coverage to typical WiFi network. The card's software driver and utility operate on Microsoft's Windows 2000, XP x86/64-bit & Vista x86/64-bit (Only the driver operates on Windows Vista).

With seamless roaming, fully interoperability and advanced security with WEP standard, WPEB-103AG offers interoperability with different vendors' Access Points through the wireless LAN.



# General Specifications

<b>Product Name</b> 802.11 a/b/g/draft2.0 n 2x2 WLAN PCIe Mini Card	<b>Software support</b> Windows 2000, XP x86/64-bit & Vista x86/64-bit
<b>Model Number</b> WPEB-103AG	<b>Configuration Utility</b> Configuration tray & Zero configuration for Window XP
<b>Network Standards</b> IEEE 802.11n draft 2.0, IEEE 802.11b, IEEE 802.11a and IEEE 802.11g	<b>Security</b> IEEE 802.11x, 802.11i WEP/WEP2 WPA/WPA2 TKIP and Weak-key avoidance CCX, CCX 2.0, CCX 3.0 128-bit OCB mode AES
<b>Frequency Range</b> 2.400GHz~2.497GHz <i>(subject to local regulations)</i> 4.900GHz~5.800GHz <i>(subject to local regulations)</i>	<b>Antenna</b> Two antennas allowing transmission or reception on both simultaneously
<b>Number of Channels</b> 2.4 GHz: 11 for North America, 13 for Europe, and 14 for Japan 5 GHz: 12 for North America, 19 for Europe, and 4 for Japan	<b>Power consumption</b> Average standby <20 mW
<b>Data Rate</b> 802.11b: 11, 5.5, 2, 1Mbps 802.11a/g: 54, 48,36,24,18,12,9,6 Mbps 802.11n: Tx = MCS 0~15 RX = MCS 0~15	<b>LED Indicators</b> RF Activity and Radio Stage indicator
<b>Modulation</b> 802.11b: CCK, QPSK, BPSK 802.11a/g: 64-QAM, 16-QAM 802.11n: 64-QAM, 16-QAM, QPSK, BPSK	<b>Operating Voltage</b> DC 3.3V +/- 10%
<b>RF Transmit Power</b> 802.11g: 15dBm (Typ) 802.11a: 12dBm (Typ)	<b>Dimension</b> 50.95 x 30 mm
<b>Host Interface</b> PCI Express Mini Card Infrastructure and Ad Hoc	<b>Temperature Range</b> 10 ~ 65°C (Operating), -30~75°C (Storing)
	<b>Humidity</b> 15%~95%