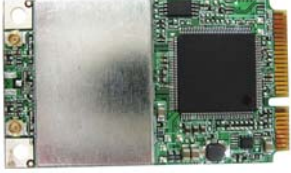


# WPER-108N

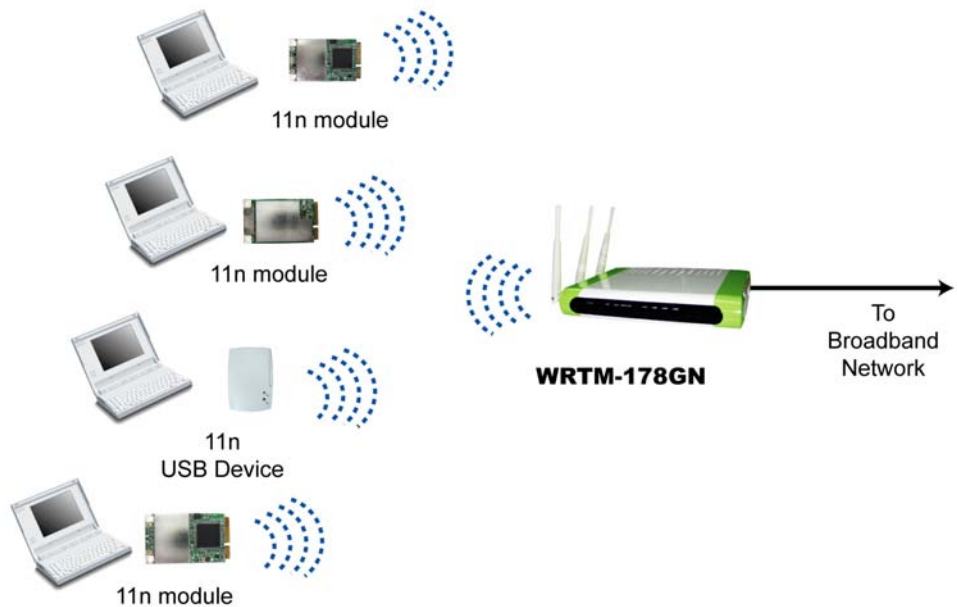
## 802.11 b/g/draft2.0 n 1x2 WLAN PCIe Mini Card



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

Gemtek Technology Co., Ltd. introduces a next generation WLAN PCIe Mini card. The Wireless Mini Card is complied with IEEE 802.11g/b standards and 802.11n draft 2.0 and operates on 2.4GHz 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 1x2 (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, WPER-108N offers interoperability with different vendors' Access Points through the wireless LAN.



# General Specifications

<b>Product Name</b> 802.11 b/g/draft2.0 n 1x2 WLAN PCIe Mini Card	<b>Network mode</b> Infrastructure and Ad Hoc
<b>Model Number</b> WPER-108N	<b>Software support</b> Windows 2000, XP x86/64-bit & Vista x86/64-bit
<b>Network Standards</b> IEEE 802.11n draft 2.0, IEEE 802.11b and IEEE 802.11g	<b>Configuration Utility</b> Configuration tray & Zero configuration for Window XP
<b>Frequency Range</b> 2.400GHz~2.497GHz <i>(subject to local regulations)</i>	<b>Security</b> 64 / 128 bit WEP encryption; AES engine support CCM 802.11i WPA: 802.1x. WPA-PSK and TKIP WPA2 802.11i
<b>Number of Channels</b> USA, Canada and Taiwan – 11 Most European Countries – 13 Japan – 14	<b>Antenna</b> Two antennas allowing transmission or reception on both simultaneously
<b>Data Rate</b> 802.11b: 11, 5.5, 2, 1Mbps 802.11g: 54, 48,36,24,18,12,9,6 Mbps 802.11n: Tx = MCS 0~7 RX = MCS 0~15	<b>Power consumption</b> TX: 550mA @ 1TX (Maximum) RX: 400mA @ 2RX (Maximum)
<b>Modulation</b> 802.11b: CCK, QPSK, BPSK 802.11g: 64-QAM, 16-QAM 802.11n: 64-QAM, 16-QAM, QPSK, BPSK	<b>LED Indicators</b> RF Activity and Radio Stage indicator
<b>RF Transmit Power</b> 802.11b_11Mbps: 17.5 dBm@1TX 802.11g_54Mbps: 13.0 dBm@1TX 802.11n_300Mbps: 13.0 dBm@1TX	<b>Operating Voltage</b> DC 3.3V +/- 10%
<b>Received Sensitivity</b> -85dBm @ 802.11b, 11Mbps PER≤8% -75dBm @ 802.11g, 54Mbps PER≤10 -68dBm @ 802.11n, 135Mbps PER≤10%	<b>Dimension</b> 50.8 x 30 x 3.5 mm
<b>Host Interface</b> PCI Express Mini Card	<b>Temperature Range</b> 0 ~ 60°C (Operating), -20~80°C (Storing)
	<b>Humidity</b> 15%~95%