

WMG2400

802.11b/g Wireless miniPCI Card

Introduction

The **802.11g Wireless MiniPCI Card** is a device that lets you connect your notebook to a wireless local area network (LAN). A wireless LAN is like a regular LAN, except that you can share information without looking for a place to plug in, and augment networks without installing or moving wires. Based on radio frequency (RF) technology, a wireless LAN transmits and receives data over the air, along with the guarantee to provide privacy and noninterference by the use of separate radio frequency.

The **802.11g Wireless MiniPCI Card** allows you to take full advantage of your PC's mobility with access to real-time information and online services anytime and anywhere. Plus, with the network installation simplicity and flexibility, you can eliminate the need to pull cable through walls and ceilings and allow the network to go where wires cannot go. Exploring WWW and augmenting networks can never be done more easily.

The **802.11g Wireless MiniPCI Card** supports 802.11b and IEEE draft Std 802.11g systems. While the proprietary application of PBCCE technology in 802.11b mode of operation provides data rates up to 22 Mbit/s, data rates up to 54 Mbit/s may be provided in 802.11g mode of operation.

Features

- Complies with IEEE 802.11b standard and draft standard 802.11g for 2.4GHz Wireless LAN.
- Type III-b MiniPCI form factor for standard compatibility in a variety of mobile devices
- Works with all existing network infrastructure.
- Complies with specific wireless products and services.
- Capable of up to 256-Bit WEP Encryption.
- Freedom to roam while staying connected.
- 22-Mbps Packet Binary Convolution Coding (PBCC)(according to the IEEE Std 802.11b high-rate specification)
- Up to 54 Mbps may be provided in 802.11g mode of operation
- Complies with Windows98/2000/ME/XP
- Lower power consumption.
- Easy to install and configure.
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Specifications

Standard	IEEE 802.11b, IEEE 802.11g Standard
Host Interface	Mini PCI 1.0 specification
Antenna	Internal diversity with connectors
Frequency Range	2.412GHz-2.4835GHz
Number of Selectable Channels	<ul style="list-style-type: none">▪ USA, Canada: 11 channels▪ Europe: 13 channels▪ Japan: 14 channels
Modulation Technique	802.11b: Direct Sequence Spread Spectrum (PBCC, CCK, DQPSK, DBPSK) 802.11g: Orthogonal frequency division multiplexing
Data Rate	802.11b(22Mbps, 11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps) 802.11g(54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps)
Preamble	802.11b: Both Short and Long preamble 802.11g: Long preamble only
Security	Hardware-Based Encryption/Decryption Using 64-, 128-, and 256-Bit Wired-Equivalent Privacy (WEP) Keys
Output Power	54Mbps OFDM: 14dBm; 11Mbps CCK: 18dBm
Receiver Sensitivity	-68dBm at 54Mbps; -82dBm at 11Mbps
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK
Power Requirement	Operating Voltage: 3.3V

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	<ul style="list-style-type: none">▪ TX consumption mode: 630mA▪ RX consumption mode: T350mA
Physical Specifications	<ul style="list-style-type: none">▪ Weight: 10g▪ Dimension: 59.75 (L) x 44.6(W) mm
Environment Specifications	<ul style="list-style-type: none">▪ Operating Temperature: 0~65 ambient temperature▪ Storage Temperature: -20~75 ambient temperature▪ Operating humidity: 95% maximum (non-condensing)▪ Storage humidity: 95% maximum (non-condensing)
Supported OS	<ul style="list-style-type: none">▪ Windows 98▪ Windows ME▪ Windows 2000▪ Windows XP
EMC Certification	<ul style="list-style-type: none">▪ FCC Part 15.247 in US

Notice : The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

Notice:

To comply with the FCC RF exposure compliance requirements, 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 co-located or operating in conjunction with any other antenna or transmitter. No change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void the user's authority to operate the device.

FCC INFORMATION

The Federal Communication Commission Radio Frequency Interference Statement includes the following paragraph:

The 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 instruction, may cause harmful interference to radio communication. However, there is no grantee 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 or more 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.

The user should not modify or change this equipment without written approval Form AboCom Systems, Inc. Modification could void authority to use this equipment.