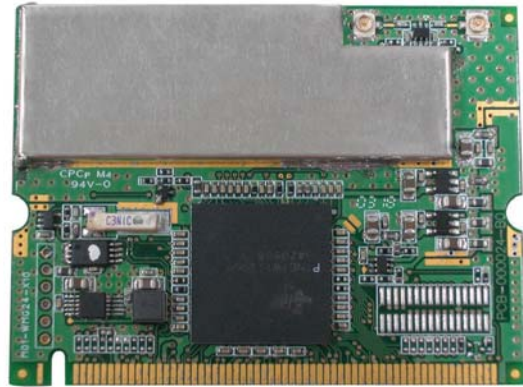


802.11b/g Wireless miniPCI Card

The **WMG2400** is a mini PCI card that connects your notebook to a wireless local area network. Incorporating the IEEE802.11g standard's mandatory modulation schemes, the WMG2400 is backwards compatible with all the existing 802.11b products already out there. Moreover, the high-speed transfer rate of up to 54Mbps makes it an essence for today's high-bandwidth demand.¹

The **WMG2400** is a very small card that can fit into any notebook, handheld or desktop computer equipped with a Mini PCI (Type III B slot) interface for wireless network applications. It allows you to take full advantage of your notebook's mobility with access to real-time information and online services anytime and anywhere. It slides easily into the MINI PCI expansion slot to enable a wireless connection to your network.



FEATURES

- Complies with IEEE 802.11b/802.11g standard 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.
- Up to 256-Bit WEP Encryption for data security.
- Freedom to roam while staying connected.
- 22-Mbps Packet Binary Convolution Coding (PBCC)(according to the IEEE Std 802.11b high-rate specification)
- High-speed transfer rate of up to 54 Mbps in 802.11g mode of operation
- Supports Windows98SE/2000/ME/XP
- Lower power consumption.
- Easy to install and configure.

¹ Theoretical wireless signal rate based on IEEE standard 802.11g of chipset used. Actual throughput will vary. Network conditions and environmental factors are likely to lower actual throughput rate.

SPECIFICATIONS

Standard	IEEE 802.11b, IEEE 802.11g Standard
Host Interface	miniPCI Interface 1.0
Operating Voltage	3.3V \pm 5%
Power Requirement	Power consumption at 11g <ul style="list-style-type: none"> ▪ TX: 630mA, RX: 350mA Power consumption at 11b <ul style="list-style-type: none"> ▪ TX: 600mA, RX: 350mA
Antenna Type	Internal diversity with connectors
Frequency Range	2.412GHz-2.4835GHz
Number of Selectable Channels	<ul style="list-style-type: none"> ▪ USA, Canada (FCC): 11 channels (2.412GHz~2.462GHz) ▪ Europe (CE): 13 channels (2.412GHz~2.472GHz) ▪ Japan (TELEC): 14 channels (2.412GHz~2.4835GHz)
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
Modulation	<p>11g: Orthogonal Frequency Division Multiplexing (OFDM)</p> <ul style="list-style-type: none"> ▪ 54Mbps/48Mbps:QAM-64 ▪ 36Mbps/24Mbps:QAM-16 ▪ 18Mbps/12Mbps:QPSK ▪ 9Mbps/6Mbps:BPSK <p>11b+: Packet Binary Convolution Coding (PBCC)</p> <ul style="list-style-type: none"> ▪ 22Mbps/11Mbps/5.5Mbps:PBCC 11b:Direct Sequence Spread Spectrum (DSSS) <ul style="list-style-type: none"> ▪ 11Mbps/5.5Mbps:CCK ▪ 2Mbps:DQPSK ▪ 1Mbps:DBPSK
Security	Hardware-Based Encryption/Decryption Using 64-, 128-, and 256-Bit Wired-Equivalent Privacy (WEP) Keys
Output Power	54Mbps OFDM: +12~ 14dBm; 11Mbps CCK: 18dBm
Receiver Sensitivity	-72dBm at 54Mbps, 10% PER -72dBm at 48Mbps, 10% PER -75dBm at 36Mbps, 10% PER -79dBm at 24Mbps, 10% PER -82dBm at 18Mbps, 10% PER -83dBm at 22Mbps, 8% PER -84dBm at 12Mbps, 10% PER -82dBm at 11Mbps, 8% PER -87dBm at 9Mbps, 10% PER -88dBm at 6Mbps, 10% PER -85dBm at 5.5Mbps, 8% PER -86dBm at 2Mbps, 8% PER -89dBm at 1Mbps, 8% PER
Range	Indoors: up to 100meters; Outdoors: up to 400meters
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK
Physical Specifications	<ul style="list-style-type: none"> ▪ Weight: 10g ▪ Dimension: 59.75 (L) x 44.6(W) mm

WMG2400

Environment Specifications	<ul style="list-style-type: none">▪ Operating Temperature: 0~60°C ambient temperature▪ Storage Temperature: -20~70°C ambient temperature▪ Operating humidity: 90% maximum (non-condensing)▪ Storage humidity: 90% maximum (non-condensing)
EMC Certification	<ul style="list-style-type: none">▪ FCC Part 15.247 in US