



WM5100

802.11n compliant 2.4GHz Mini-PCI Module

Description

The WM5100 is an IEEE802.11 n/b/g mini-PCI card that connects your notebook to a wireless local area. The WM5100 3*3 MIMO Technology improves effective throughput and range over existing 802.11 b/g products better expands the receiving distance and efficiently eliminates wireless connection dead spots compared with normal 11g products.

The WM5100 is a very small card that can fit into any notebook, handheld or desktop computer equipped with a mini-PCI (Type III A 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

- Processor for 2.4GHz WLANs
- BPSK, QPSK, 16QAM, 64QAM, DBPSK, DQPSK, and CCK modulation
- Data rates up to 130Mbps for 20MHz channels and 300Mbps for 40MHz
- Security: WEP, WPA, WPA2 Enterprise)
- Encryption: TKIP, PSK and AES
- 3*3 MIMO Technology improves effective throughput and range over existing 802.11 b/g products
- 32-bit and 0-33MHz PCI 2.3 inter face

Specification

Standards	IEEE 802.11 n/b/g standards compliant
Antenna	Detachable antenna
Frequency Range	802.11 n/b/g USA (FCC): 2.412GHz ~ 2.462GHz Europe (ETSI): 2.412GHz ~ 2.472 GHz Japan (TELEC): 2.412GHz ~ 2.483GHz
Number of Selectable Channels	802.11n 20MHz/40MHz ;802.11b/g USA (FCC) 11 channels; EU (ETSI) 13 channels; Japan (TELEC) 14 channels
Data Rate	802.11n: up to 300Mbps 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
Coverage Area	Up to 12 times faster then existing 802.11 b/g products
Transmit Power	11n HT40 : +12dBm 11b CCK: +16dBm 11g OFDM: +18dBm
Receiver Sensitivity	-65dBm at 300Mbps -75dBm at 54Mbps, 10% PER -84dBm at 11Mbps, 8% PER
Power Requirement	3.3Vdc
Dimension	59.6mm(L) * 50.95mm(W) * 4.2mm(H)
Certifications	FCC, CE