

M220 Wireless LAN 11g Mini-PCI Module



Description

The M220 is IEEE 802.11g high data rate standard compatible Mini-PCI module, which fully supports high data rate to 54Mbps, over the Ethernet speed. The M220 is the wireless solution for networking OEM manufactures, such as IA, portable devices, residential gateway, and ADSL router, to build up the wireless LAN capability. The software supports most of O.S. for operation. Automatic fallback to lower data rate optimizes communication possibility in worse channel conditions and over larger distances.

Features

- Compatible with 802.11b/11g devices
- Operating in 2.4GHz band with up to 54Mbps
- High data rate 54/48/36/24/18/12/11/9/6/5.5/2/1 Mbps
- Auto fallback data rate under noisy environment
- Supports 64 / 128 / 256 Bit WEP encryption for security
- Power saving mode in infrastructure mode to minimizes power consumption when needed
- Offers WPA (Wi-Fi Protected Access) WEP Encryption with TKIP.
- Provides 802.1x Authentication
- Supports Mini-PCI V.1.0 standard
- Easy-to-Use Graphical Configuration utility saves detailed connectivity profiles for frequently accessed networks

Application

- Embedded system
- Wireless multimedia
- Wireless office for extension Ethernet range

Specifications

- **General:**
 - Complies with IEEE 802.11b
 - Complies with IEEE 802.11g
- **Radio Characteristics:**
 - RF Range:
2.4 ~ 2.4835 GHz (for US, Canada, and ETSI)
2.4 ~ 2.497 GHz (for Japan)
 - Data Rate: 11 / 5.5 / 2 / 1 Mbps
 - Modulation Type: CCK, BPSK, QPSK, OFDM

- Operating Channels: IEEE 802.11b/11g compliant
Europe - 13 (ETSI), US, Canada - 11, Japan - 14
- Radio Technology: Direct Sequence Spread Spectrum
- Output Power (Typical) : 17 dBm
- Receive Sensitivity:
 - 68 dBm Min. (54Mbps, @ PER 10%)
 - 70 dBm Min. (48Mbps, @ PER 10%)
 - 75 dBm Min. (36Mbps, @ PER 10%)
 - 79 dBm Min. (24Mbps, @ PER 10%)
 - 80 dBm Min. (22Mbps, @ PER 10%)
 - 82 dBm Min. (18Mbps, @ PER 10%)
 - 84 dBm Min. (12Mbps, @ PER 10%)
 - 82 dBm Min. (11Mbps, @ PER 8%)
 - 87 dBm Min. (9 Mbps, @ PER 10%)
 - 88 dBm Min. (6 Mbps, @ PER 10%)
 - 85 dBm Min. (5.5Mbps, @ PER 8%)
 - 86 dBm Min. (2 Mbps, @ PER 8%)
 - 89 dBm Min. (1 Mbps, @ PER 8%)

- **Current Consumption:**

- 3.3 V, Tx mode 550mA (Max.), Rx mode 350mA (Max.)
- Standby: 20mA

- **Software:**

- Driver Support: Windows 98 / Me / 2000 / XP
- Channel setting, Roaming, RF Signal Quality Monitor, Site survey

- **Mechanical:**

- Host Interface: Mini-PCI specV1.0
- Form Factor: Mini-PCI Type IIIB

- **EMC Certificate:**

- U.S.: FCC Part 15, sections 15.247, 15.205, 15.209

Notes:

1. Specifications are subject to change without notice.
2. Windows 98 / Me / 2000 / XP are the registered trademark of Microsoft.

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