

MSI Wireless Networking Solution

IEEE 802.11b Mini PCI

MS-6804



MSI-6804 IEEE 802.11b Mini PCI is an embedded solution that complies with IEEE 802.11b standard and provides 11 Mbps data rate. The small form factor and light weight design are suitable for mobile devices, desktop, laptop and Internet Appliance with Mini-PCI slot. Integrated with it, the device can easily share a broadband connection, files and printers over the network wirelessly. In addition, with 64-/128-bit Privacy Key and IEEE 802.11i TKP, network connection is highly secured.

Based on direct sequence spread spectrum (DSSS) technology operating in the 2.4 GHz Industrial, Science and Medical band, the MSI's MP11B complies with WiFi, ensuring interoperability with other compliant wireless LAN products.

Features

- **IEEE 802.11b standard compliant**
- **11Mbps transmission speed and quality**
 - Superior receiving sensitivity enhances weak data signal pickup at longer distances
- **Easy Installation**
 - User-friendly interface and step-by-step instructions make CB11B quick and easy to install
- **Supports Seamless Roaming**
 - Roam freely from Access Point to Access Point with uninterrupted network connectivity.
- **Secure Transmissions**
 - **WEP:** 64 & 128-bit secured WEP (Wired Equivalent Privacy) encryption for securing wireless LAN data transmissions
 - **SSID:** Only stations using the same SSID (Service Set ID) are permitted to communicate with each other
- **Supports Windows 98SE/ME/2000/XP**



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Product Specifications

General

- Operating System: Windows 98SE/ME/2000/XP
- Compliance:
 - ◆ IEEE 802.11b
 - ◆ WECA WiFi
 - ◆ WHQL
- Operating Temperature: 0 to 55
- Operating Humidity: 0 to 95% non-condensing

Physical

- Form Factor: Mini-PCI Type IIIA
- Dimension: 59.8 mm x 50.9 mm x 3.25 mm (2.36" x 2" x 0.13")
- Antenna: External diversity with connectors
- Weight: 12g
- Operation Voltage: 3.3 V

Radio

- Frequency Range: 2.4GHz to 2.4835 GHz,
- Operating Channels:
 - ◆ 11 channels (US & Canada), 13 channels (Europe), 4 channels (France), 2 channels (Spain), 14 channels (Japan)
 - ◆ Maximum 3 Non-Overlapped Channels
 - ◆ 25 MHz Bandwidth Per Channel
- Wireless Medium: Direct Sequence Spread Spectrum (DSSS)
- Media Access Control: Carrier Sense Multiple Access with Collision Avoidance (CDMA/CA)
- Modulation Technique: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, CCK @ 5.5 and 11 Mbps
- Data Rate: 11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps, Auto Fall-Back
- Transmitter output power: 15dBm

Performance

- Sensitivity: less than -82 dBm at 11 Mbps
- Range: Outdoor: \geq 150m(492ft) @ 11Mbps

Security

- Security:
 - ◆ 64-/128-Bit Privacy Key (WEP)
 - ◆ IEEE 802.11i TKIP



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