EliteConnect™
2.4GHz 802.11b High Power Wireless PCI Card

Model Number: **SMC2512W-B**

EZ Installation wizard

In today's enterprise world, mobility, flexibility, and security are the important ingredients for enhancing the productivity and convenience of wireless networks in corporate environments. SMC's new EliteConnect 2.4GHz 802.11b High Power Wireless PCI Card (SMC2512W-B) connects with an existing Ethernet installation so wireless enterprise desktop users can gain instant network access and resources. This new member of the EliteConnect family of product line from SMC combines superior performance, range and reliability.

The new SMC2512W-B provides wireless LAN access to desktop computer with an available PCI slot. It offers an incredible transmit power of 200mW, one of the highest in the industry. The SMC EliteConnect 802.11b High Power Wireless PCI Card provides an operating range up to 3 times greater than the standard 802.11b wireless clients. Since it has the ability to significantly decrease indoor multipath distortion, users will experience dramatic improvements in the quality and throughput of their wireless networking. Equipped with a detachable antenna with two available MMCX connectors, user can connect an optional high gain antenna (SMCANT-OM5) to increase the already superior range of the SMC2512W-B.

Based on the IEEE 802.11b standard, this new product can be configured for Ad-hoc mode (Peer-to-Peer) or Infrastructure mode (communication to the wired network via an Access Point). Since it is based on 802.11b standard, it is interoperable among different 802.11b compliant vendors. The included EZ Installation Wizard enables quick and easy setup.

The new SMC2512W-B EliteConnect 802.11b High Power Wireless PCI Card provides a high level of security to enterprises by supporting both 64/128-bit WEP encryption and the new Wi-Fi Protected Access (WPA)*. It also supports advanced enterprise level security and RADIUS authentication through 802.1x, EAP-MD5, EAP-TLS, EAP-TTLS, and LEAP for user authentication to ensure only authorized users can access the resources of the wireless network. Moreover, profile management software allows the new high power wireless desktop adapter the ability to save multiple wireless settings corresponding to different locations or networks. Furthermore, the SMC2512W-B has a built-in utility program for scanning all available Wireless Access Points on the network.

Combine all of these features including excellent performance, range, reliability, ease-of-use with our free 24/7 technical support and you have a state-of-the-art, best-of-breed high power 802.11b Wireless PCI Adapter to seamlessly integrate into a new or existing wireless network.

* Available under Windows XP. Support for Windows 98SE/ME/2000 will be available Q1 2004

Features

- PCI Local Bus Specification Revision 2.2 compliant
- 95/97 PC Card Standard compliant
- 3.3V or 5V operation
- IEEE 802.11b compliant
- 2.4GHz frequency band
- Uses Direct Sequence Spread Spectrum (DSSS) technology
- High data rates at up to 11 Mbps
- Transmit power up to 200mW
- Up to 2,700 feet of operating range
- Detachable antenna with MMCX connectors
- EZ Installation Wizard
- Ad-hoc or Infrastructure mode
- Advanced Enterprise level security and RADIUS authentication
- Profile management
- Site survey software

Benefits

- High power 802.11b Wireless PCI Card enables wireless LAN access to desktop users and is interoperable with all 802.11b compliant products
- High transmit power up to 200mW delivers superior range and performance
- Detachable antenna allows for connection to high gain antenna to increase operating distance
- EZ Installation Wizard ensures simple and easy setup and saves time for network administrators
- Advanced enterprise level security and RADIUS authentication through 64/128-bit WEP, WPA*, 802.1x, EAP-MD5, EAP-TLS, EAP-TTLS and LEAP
- Profile management lets you create and save multiple profiles for different wireless network settings
- Site survey utility scans for all available Access Points on the wireless network and see the signal strength and link quality of the Access Points that you are connecting to
- Wireless LANs are tremendously convenient, help to enhance productivity, and provide a real cost benefit over traditional wired networks (no installation or maintenance expenses)

Compatibility

- PCI Local Bus Specification Revision 2.2 compliant
- 95/97 PC Card Standard compliant
- IEEE 802.11b
- Windows 98SE/ME/2000/XP

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SMC2512W-B

Standards
- PCI Local Bus Specification 2.2
- PC Card 95/97 PC-16 Standard
- ACPI (PCI Power Management 1.0)

Interface
- PCI interface card

Dimension
- 6.75″ (L) X 4.75″ (W) [including PC Card]

Weight
- 0.28 lbs

Ambient Temperature
- 0°C~70°C

Storage Temperature
- -40°C~125°C

Operating Systems
- Windows 98SE/ME/2000/XP

Power Supply Current (Operating)
- 50mA

SMC2532W-B

Standards
- IEEE 802.11b

Interface
- 16-bit PCMCIA V2.1 I/O interface,
  Type II, 5V key

Data Rate
- 11, 5.5, 2 and 1 Mbps per channel,
  Auto Fall-Back

Operating Range
- Up to 2,700 feet

Network Configuration
- Ad-Hoc (Peer to Peer)
- Infrastructure

Modulation
- CCK (11Mbps, 5.5Mbps), DQPSK (2Mbps),
- DBPSK (1Mbps)

Security
- 64-/128-bit Wired Equivalent Privacy (WEP)
- 802.1x
- EAP-MD5
- EAP-TLS
- EAP-TTLS
- LEAP
- WPA*

Operating Frequency
- 2.412-2.462 GHz (N. America)
- 2.412-2.484 GHz (Japan)

Operating Channels
- 11 N. America
- 14 Japan

RF Output Power
- 23dBm Typical ± 2dBm

Sensitivity
  @PER< 8%
- 11Mbps: -89dBm
- 5.5Mbps: -91dBm
- 2Mbps: -93dBm
- 1Mbps: -94dBm

Operating Systems
- Windows 98SE/ME/2000/XP

Antenna Gain
- 0.23 dBi

Antenna Type
- Detachable with two MMCX connectors

LED Indicators
- Link
- Power

Power Voltage
- 5.0 VDC ± 5%

Power Consumption
- TX power consumption: <650 mA
- RX power consumption <280 mA
- Power Save consumption <100mA

Compliance
- USA: FCC Part 15 Class B and C
- Canada: ISC RSS139
- Japan: Telec RCR STD 33, T66; JETA

Operating Temperature
- 0° ~ 122°F

Storage Temperature
- -4° ~ 176°F

Humidity (non-condensing)
- 5~80%

Product	Description
SMC2512W-B	EliteConnect™ 2.4GHz 802.11b High Power Wireless PCI Card
SMCANT-OM5	EliteConnect™ 2.4GHz Wireless High Gain External Omni-Directional Antenna