

wireless

EliteConnect™

2.4GHz 802.11b High Power Wireless PC Card

Model Number: SMC2532W-B



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 PC Card (SMC2532W-B) connects with an existing Ethernet installation so wireless enterprise laptop users can gain instant network access and resources from the conference room to the board room. This new member of the EliteConnect family of product line from SMC combines superior performance, range and reliability.

The new SMC2532W-B offers an incredible transmit power of 200mW, one of the highest in the industry. The SMC EliteConnect 802.11b High Power Wireless PC 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, users can connect an optional high gain antenna (SMCANT-OM5) to increase the already superior range of the SMC2532W-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 SMC2532W-B EliteConnect 802.11b High Power Wireless PC 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 notebook adapter the ability to save multiple wireless settings corresponding to different locations or networks. Furthermore, the SMC2532W-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 wireless client adapter to seamlessly integrate into a new or existing wireless network.

Overview

Features

- Transmit power up to 200mW
- Detachable antenna with MMCX connectors
- EZ Installation Wizard
- IEEE 802.11 compliant, Wi-Fi certified
- High data rates at up to 11 Mbps
- Up to 2,700 feet of operating range
- 2.4GHz frequency band
- Uses Direct Sequence Spread Spectrum (DSSS) technology
- Ad-hoc or Infrastructure mode
- Advanced Enterprise level security and RADIUS authentication

Benefits

- High transmit power up to 200mW delivers superior range and performance
- Detachable antennas allows for connection to optional high gain antenna (SMCANT-OM5) to increase operating distance
- EZ Installation Wizard ensures simple and easy setup and saves time for network administrators
- IEEE 802.11b standard and Wi-Fi certified means interoperability with other Wi-Fi compliant vendors. It enables users to use the new high power EliteConnect Wireless PC Card at home, office and even at hotspots where the popular 2.4GHz wireless networks are deployed
- Advanced Enterprise level security and RADIUS authentication through 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

- IEEE 802.11b
- Windows 9x/ME/2000/XP

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)
- 2.412-2.472 GHz (Europe ETSI)
- 2.457-2.462 GHz (Spain)
- 2.457-2.472 GHz (France)

Operating Channels

- 11 N. America
- 14 Japan
- 13 Europe (ETSI)
- 2 Spain, 4 France

RF Output Power

- 23dBm Typical \pm 2dBm

Sensitivity

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

Operating Systems

- Windows 9x/ME/2000/XP

Antenna Gain

- 0.23 dBi

Antenna Type

- Detachable with two MMCX connectors

LED Indicators

- Link
- Power

Power Voltage

- 5.0 VDC \pm 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 ~ 122F

Storage Temperature

- -4 ~ 176F

Humidity (non-condensing)

- 5~80%

Dimension

- 3.38 in (L)* 2.13 in (W)* 0.2 in (H) without Antenna

Weight

- < 1.77 oz

SMCANT-OM5

Electrical Specification

Frequency Range

- 2400-2500MHz

Gain

- 5dBi

Polarization

- Vertical

H.HFBW

- 360°

V.HFBW

- 40°

Impedance

- 50 ohms

VSWR

- < 1.5

Lighting Protection

- DC Ground

Cable Type

- RG-174 (Black)

Connectors Type

- MMCX

Max Power Rating

- 50Watt

Product	Description
SMC2532W-B	EliteConnect™ 2.4GHz 802.11b High Power Wireless PC Card
SMCANT-OM5	EliteConnect™ 2.4GHz Wireless High Gain External Omni-Directional Antenna