SMC Networks

SMC2531W-B EU
EliteConnect™ 2.4GHz 802.11b High Power Wireless PC Card

OVERVIEW

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 EliteConnect™ 2.4GHz 802.11b High Power Wireless PC Card (SMC2531W-B EU) 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 SMC2531W-B EU offers an incredible transmit power of 100mW, 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 SMC2531W-B EU.

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 SMC2531W-B EU 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, PEAP 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 SMC2531W-B EU 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 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.

FEATURES	BENEFITS
IEEE 802.11 compliant	IEEE 802.11b standard means interoperability with other Wi-Fi complaint vendors
Transmit power up to 100 mW (20 dB)	Delivers superior range and performance
Detachable antenna with 2 MMCX connectors	Detachable antennas allows for connection to optional high gain antenna (SMCANT-OM5) to increase operating distance
Advanced Enterprise level security and RADIUS authentication	Robust enterprise class security and RADIUS support to authenticate appropriate personnel to access network resources

STANDARDS
- IEEE802.11b, IEEE802.1x

INTERFACE
- 16-Bit PCMCIA Typ II

MEDIA ACCESS PROTOCOL
- CSMA/CA

OPERATIONAL MODE
- Infrastructure & Ad-Hoc-Mode

TRANSFER DATA RATES
- 11, 5.5, 2, 1 Mbps with auto-Fallback

MODULATION TYPE
- IEEE802.11b: DSSS

Modulation	Data Rate
DBPSK	1 Mbps
DQPSK	2 Mbps
CCK	5.5, 11 Mbps

CHANNELS/FREQUENCY RANGE
- 2.4 GHz frequency band
- 11 channels, 2.400 ~ 2.4720 GHz (US, Canada)
- 13 channels, 2.400 ~ 2.4835 GHz (ETSI)
- 14 channels, 2.400 ~ 2.4970 GHz (Japan)

TRANSMIT OUTPUT POWER (E.I.R.P.)
- 20 dBm @ 11 Mbps

RECEIVE SENSITIVITY
- IEEE802.11b

Transfer Rate	IEEE802.11b
1 Mbps	-93 dBm
2 Mbps	-90 dBm
5.5 Mbps	-88 dBm
11 Mbps	-85 dBm

ANTENNA TYPE
- Integrated 0.23 dBi Antenna
- Two MMCX connectors for external antennas, support RX diversity

OPERATING RANGE
- 802.11b: up to 800 m/ 2.700 ft
- Ranges vary based upon numerous environmental factors so individual performance may be significantly different.

SECURITY
- 64-/128-bit WEP encryption
- TKIP encryption
- Wi-Fi Protected Access (WPA)
- IEEE802.1x, EAP-MD5, EAP-TLS, EAP-TTLS, LEAP, PEAP

LED
- Link, Power

OS SUPPORT
- Windows 98SE, ME, 2000, XP

CURRENT CONSUMPTION
- TX: < 450 mA, RX: < 350 mA
- Power Save Mode: 60 mA

TEMPERATURE
- Operating: 0°C ~ 50°C / 32°F ~ 122°F
- Storage: -20°C ~ 80°C / -4°F ~ 176°F

HUMIDITY (NON-CONDENSING)
- 5% ~ 95% typical

DIMENSION
- 5 x 55 x 86 mm
- 0.2 x 2.13 x 3.38 in

WEIGHT
- 38 g
- 0.08 lbs

COMPLIANCE
- Wi-Fi compliant
- FCC part 15 Class B (USA)
- IC (Canada)
- EN300328-1/EN300328-2/ EN60950/EN301489 (Europe)

WARRANTY
- Limited Lifetime

SMCANT-OM5 (NOT INCLUDED)

FREQUENCY RANGE
- 2.400 GHz ~ 2.500 GHz

ANTENNA GAIN
- 5 dBi

POLARIZATION
- Linear vertical

BEAM-WIDTH
- Horizontal: 360°
- Vertical: 40 °

IMPEDANCE
- 50 Ohm

VSWR
- < 1.5

LIGHTNING PROTECTION
- DC ground

CABLE TYPE
- RG-174

CONNECTOR TYPE
- MMCX

MAX. POWER RATING
- 50W

Contact

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