Data Sheet

EliteConnect™

SMC2582W-B
SMCPWR-INJ3

2.4GHz 11Mbps Wireless Bridge Power Injector

Designed to connect two or more separated Local Area Networks (usually located in different buildings), the new SMC EliteConnect Wireless Bridge is the easiest alternative to a traditional wired network. It delivers high data rate and allows personnel in a corporate campus environment to access all local and remote network resources. The Wireless Bridge is also a cost-effective solution. It eliminates the need for expensive cabling and difficult-to-install leased lines.

The new SMC2582W-B bridges two or more wired LANs. Connected to the Ethernet backbone through an RJ-45 connector, the Wireless Bridge (Access Point/Bridge and Bridge Master modes) can also function as an Access Point, bridging between a wired LAN and one or more wireless mobile PC-based stations.The new EliteConnect 2.4GHz 11 Wireless Bridge connects difficult-to-wire locations, branch offices, school or corporate campus environments, frequently changing workplaces, temporary LANs, hospitals and warehouses.The Wireless Bridge also allows multiple buildings to share a single Internet connection.

SMC2582W-B has three operational modes: Access Point/Bridge, Bridge Master, and Bridge Slave. The Access Point/Bridge mode provides both Access Point and Bridging functionalities. The Bridging function is supported through Wireless Distribution System (WDS). When SMC2682W Wireless Bridges exist in the same Bridging environment as the SMC2582W-B, Bridge Master or Bridge Slave modes can be used.

SMC2582W-B EliteConnect Wireless Bridge supports advanced wireless security features including 64-bit or 128-bit key WEP wireless data encryption, disabled SSID broadcast, wireless client isolation, and MAC address filtering to block unauthorized wireless clients. In addition, the new EliteConnect Wireless Bridge provides multiple levels of protocol filtering (Ethernet, IP, TCP/UDP) to ensure network security.

The new EliteConnect 2.4GHz 11 Mbps Wireless Bridge also has flexible management features. Web based network management tools make configuration and remote management of the network simple. IT professionals can also use Telnet or TFTP to quickly and easily manage the device. In addition, SMC2582W-B supports SNMP allowing easy integration of your wireless LAN with your wired infrastructure. Other management features include a system log, event log and syslog.

SMC2582W-B comes with a detachable antenna. If extended range is required, users can choose among the wide selection of SMC 2.4GHz High Gain Antennas.The new EliteConnect Wireless Bridge also supports Power over Ethernet that adheres to 802.3af standard (using optional SMCPWR-INJ3). Power over Ethernet reduces installation cost by using standard Category 5 cable to provide power to the Wireless Bridge.

Combining all of the above features with SMC's award winning 24/7 technical support, the SMC2582W-B EliteConnect 2.4GHz Wireless Bridge is the best available, fast, reliable, and cost-effective building-tobuilding solution in the market.

Features and Benefits

High Performance & Functionality

- IEEE 802.11b compliant
- 2.4GHz frequency band requires no FCC license
- High Performance and data rates up to 11 Mbps with auto-fallback feature
- Connects two separated LANs (usually located in different buildings)
- Flexible access point and bridging functionalities
- Support up to 64 users
- Advanced wireless encryption security
- Flexible management features including Webbased management, Telnet, TFTP, SNMP, Syslog, and Event Logging
- Detachable antenna
- 802.3af Power over Ethernet

Compatibility

- 802.11b
- 802.3
- 802.3u
- 802.3af

Product	Model No	Description
Elite Connect™	SMC2582W-B	2.4GHz 11Mbps Wireless Bridge
	SMCPWR-INJ3	Power Injector

SMC® Networks

Specifications

SMC2582W-B

Standards
- 802.3
- 802.3u
- 802.11b
- 802.3af

Data Rate & Modulation
- CCK@11/5.5Mbps, DQPSK@2Mbps and DBSK@1 Mbps

Radio Technology:
- Direct Sequence Spread Spectrum (DSSS)

Operating Range
- Up to 1,500 feet

Frequency range
- 2.400 ~ 2.4834 GHz (North America)
- 2.400 ~ 2.4970 GHz (Japan)
- 2.412 ~ 2.4720 GHz (Europe ETSI)

Channels
- USA: 1-11 (FCC),
- Canada: 1-11 (IC),
- Europe: 1-13 (ETSI),
- Spain: 10, 11
- France: 10-13
- Japan: 1-13 (Japan)

Transmission Output Power:
- 18 dBm max

Receiving Sensitivity
- 11Mbps 110-5 BER @ -83 dBm, Typical

Antenna:
- Removable Antenna with R-SMA connector

Operational Modes
- Access Point/Bridge (used in pure SMC2582W-B bridging environment)
- Bridge Master (used when both SMC2582W-B and SMC2682W are in the Bridging environment)
- Bridge Slave (used when both SMC2582W-B and SMC2682W are in the Bridging environment)

Interface
- 10/100 Mbps RJ-45 Connector
- RS-232c Serial Connector
- 802.11b WLAN

Security
- 64/128-bit WEP
- MAC address filtering
- Disabled SSID broadcast
- Wireless client isolation

Configuration and Management
- Web-browser
- Telnet
- TFTP
- SNMP
- Syslog
- Event Logging

LEDs
- Power
- LAN
- WLAN
- Alive

Environmental
- Temperature: Operating (0º~55ºC), storage (-20º~70ºC)
- Humidity: 5% to 95% non-condensing in storage

Electromagnetic Compatibility
- FCC Class B
- Industry Canada
- CE
- ETS 300.328; ETS 300 826

Dimensions (without antenna)
- 6.75" x 5.5 " x 1.25"

Weight:
- 0.80 lbs

SMCPWR-INJ3

Input Power Requirements
- AC Input Voltage: 90 - 264Vac
- AC Frequency: 47 - 63 HZ
- AC Input Current: 2A at 100Vac, 1A at 240Vac, (-48Vdc)

Power over LAN output Specification
- Pin Assignments and Polarity: (+) 4/5 (-) 7/8

Output Voltage:
- Aggregate Power: 50W (48Vdc)

Dimensions
- 4" x 5.5" x 1.5"

Weight
- 1.38 lbs

LEDS
- AC Power (Green)
- Power Active (Red)
- Over Current Protection (Red, Flash)
- Connectors Shielded RJ-45

Operating Temperature
- 32º to 104º F (0º to 40º C)

Operating Humidity
- Maximum 90% Non-condensing

Storage Temperature
- 13º to 185º F (-25º to 85º C)

Storage Humidity
- Maximum 95%, Non-condensing

Compliance:
- FCC
- CE
- UL 1950
- CSA A22.2 No. 950
- EN 60950
- CB
- CE

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