SMC Networks

SMC2582W-B
EliteConnect™ 2.4GHz 11 Mbps Wireless Bridge

OVERVIEW

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 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). SMC2682W or SMC2586W-G 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 the SMC2582W-B EliteConnect 2.4GHz Wireless Bridge is the best available, fast, reliable, and cost-effective building-to-building solution in the market.

FEATURES	BENEFITS
IEEE802.11b compliant	IEEE802.11b compliance allows for seamless interoperation among multiple vendors
Flexible access point and bridging functionalities	Connects two separated LANs (usually located in different buildings) without needing expensive cabling or leased lines
Flexible management features	Flexible network management through CLI, Web, Telnet, TFTP, SNMP make it simple and easy to monitor, troubleshoot, and view event logging
Detachable antennas	Optional use of 2.4GHz High Gain Antenna for extended range and coverage
Enterprise level of authentication and encryption security	Enterprise class security features including the new WPA, up to 128-bit WEP encryption, 802.1x authentication and dynamic key management, wireless client isolation, disabled SSID broadcast
Power over Ethernet support (optional)	Reduces installation cost by using standard Cat. 5 cable to provide power to the Access Point

STANDARDS
- IEEE802.11b, IEEE802.1x,
- IEEE802.3, IEEE802.3u, IEEE802.3af

INTERFACE
- 1x 10BASE-T/100BASE-TX (RJ-45) Port
- 1x RS-232c Serial Port
- IEEE802.11b Wireless LAN

MEDIA ACCESS PROTOCOL
- CSMA/CA

OPERATIONAL MODE
- Infrastructure Mode
- Access Point/WDS Bridge (used in pure SMC2582W-B bridging environment)
- Bridge Master/Slave (used when SMC2586W-G, SMC2582W-B, and SMC2682W are in the bridging environment)

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.)

Transmit Power Control	IEEE802.11b
High	16-18 dBm
Medium High	13-15 dBm
Medium	10-12 dBm
Medium Low	7-9 dBm
Low	4-6 dBm

RECEIVE SENSITIVITY

Transfer Rate	IEEE802.11b
1 Mbps	-91 dBm
2 Mbps	-88 dBm
5.5 Mbps	-85 dBm
11 Mbps	-83 dBm

ANTENNA TYPE
- One removable, replaceable 2 dBi Antenna
- R-SMA (male) connector for external Antenna

OPERATING RANGE
- 802.11b: up to 457m/ 1.500 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, PEAP, LEAP
- Disable SSID Broadcast
- MAC address filtering
- Wireless Client Isolation

CONFIGURATION AND MANAGEMENT
- Web-browser, Telnet, TFTP, SNMP
- Syslog, Event Logging
- DHCP Server

MAXIMUM CLIENTS
- 64

LED
- Power, LAN, WLAN, Alive

TEMPERATURE
- Operating: 0°C ~ 55°C / 32°F ~ 131°F
- Storage: -20°C ~ 70°C / -4°F ~ 158°F

HUMIDITY (NON-CONDENSING)
- 5% ~ 95% in storage

DIMENSION (WITHOUT ANTENNAS)
- 172 x 140 x 32 mm / 6.75 x 5.5 x 1.25 in

WEIGHT
- 363 g/ 0.80 lbs

COMPLIANCE
- Wi-Fi compliant
- FCC Part 15 Class B
- IC (Canada)
- ETSI, EN300328-1/ EN300328-2/ EN60950/EN301489-1/-17 (Europe)

WARRANTY
- Limited Lifetime

SMCPWR-INJ3 (optional)

INPUT POWER REQUIREMENTS
- AC Input Voltage: 90 - 264VAC, 47-63 Hz
- AC Input Current: 2A at 100VAC, 1A at 240VAC (-48VDC)

OUTPUT VOLTAGE
- Aggregate Power: 50W (48VDC)

PoE OUTPUT SPECIFICATION
- PIN Assignments and Polarity: (+) 4/5, (-) 7/8

LEDs
- AC Power, Power Active, Over Current Protection, Connectors Shielded RJ-45

TEMPERATURE
- Operating: 0°C ~ 40°C / 32°F ~ 104°F
- Storage: -25°C ~ 85°C / -13°F ~ 185°F

HUMIDITY (NON-CONDENSING)
- Max. 90% in storage

DIMENSION
- 101 x 140 x 38 mm/ 4 x 5.5 x 1.5 in

WEIGHT
- 626 g / 1.38 lbs

COMPLIANCE
- FCC Part 15 Class B
- CE
- UL1950
- CSA A22.2 No. 950
- EN60950
- CB

Contact

North America
38 Tesla
Irvine, CA 92618
1-800-SMC-4YOU
24/7 Technical Support

Europe/ Africa
Fructuos Gelabert 6-8
08970 Sant Joan Despí
Barcelona, Spain

Check www.smc.com for your local country contact information