

SMC2586W-G EliteConnect™ 2.4GHz 802.11g Wireless Bridge



OVERVIEW

Designed to connect two or more separated Local Area Networks (usually located in different buildings), the new SMC EliteConnect™ 802.11g 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 new 802.11g Wireless Bridge is also a cost-effective solution. It eliminates the need for expensive cabling and difficult-to-install leased lines.

SMC2586W-G 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 SMC2582W-B and SMC2682W 802.11b 11 Mbps Wireless Bridges exist in the same Bridging environment as the SMC2586W-G, Bridge Master or Bridge Slave modes can be used.

SMC2586W-G EliteConnect™ Wireless Bridge supports advanced wireless security features including 64-bit or 128-bit key WEP wireless data encryption, 802.1x, the new Wi-Fi Protected Access (WPA), disabled SSID broadcast, wireless client isolation, and MAC address filtering to block unauthorized wireless clients. In addition, the new EliteConnect 802.11g Wireless Bridge provides multiple levels of protocol filtering (Ethernet, IP, TCP/UDP) to ensure network security.

The new EliteConnect™ 2.4GHz 802.11g 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. Above all, SMC2586W-G 802.11g Wireless Bridge comes with the EliteConnect™ Management Utility that eases the Network Administrators' large-scale remote management problems. This reduces the IT work burden and lowers the total cost of ownership.

SMC2586W-G 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).

Combining all of the above features the SMC2586W-G EliteConnect 2.4GHz 802.11g Wireless Bridge is the best available, fast, reliable, and cost-effective building-to-building solution in the market.

FEATURES	BENEFITS
IEEE802.11b, and 802.11g compliant	Simultaneous support of IEEE802.11b, and 802.11g wireless clients, IEEE802.11b/g compliance allows for seamless interoperability 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/g, IEEE802.1x,
- IEEE802.3, IEEE802.3u, IEEE802.3af

INTERFACE

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

MEDIA ACCESS PROTOCOL

- CSMA/CA

OPERATIONAL MODE

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

TRANSFER DATA RATES

- IEEE802.11b
 - 11, 5.5, 2, 1 Mbps with auto-Fallback
- IEEE802.11g
 - 54, 48, 36, 24, 18, 12, 9, 6 Mbps with auto-Fallback

MODULATION TYPE

- IEEE802.11g: OFDM

Modulation	Data Rate
BPSK	6, 9 Mbps
QPSK	12, 18 Mbps
16-QAM	24, 36 Mbps
64-QAM	48, 54 Mbps

- 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	IEEE802.11g	IEEE802.11b
High	14-15 dBm	16-18 dBm
Medium High	11-12 dBm	13-15 dBm
Medium	4-6 dBm	10-12 dBm
Medium Low	1-2 dBm	7-9 dBm
Low	-1-0 dBm	4-6 dBm

OPERATING RANGE

- 802.11b: up to 457m/ 1.500 ft
- 802.11g: up to 350 m/ 1.155 ft
- Ranges vary based upon numerous environmental factors so individual performance may be significantly different.

RECEIVE SENSITIVITY

- IEEE802.11a/g

Transfer Rate	IEEE802.11g
6 Mbps	-88 dBm
9 Mbps	-87 dBm
12 Mbps	-84 dBm
18 Mbps	-82 dBm
24 Mbps	-79 dBm
36 Mbps	-76 dBm
48 Mbps	-69 dBm
54 Mbps	-68 dBm

- IEEE802.11b

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

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

POWER SUPPLY

- Input: 100-240V AC, 50-60 Hz
- Output: 12 VDC, 1A

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)

- 140 x 216 x 32 mm / 5.5 x 8.5 x 1.25 in

WEIGHT

- 435 g/ 0.96 lbs

SAFETY

- UL1950-3
- CSA 950-95
- EN60950

COMPLIANCE

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

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