Data Sheet

EliteConnect™
SMC2586W-G

2.4GHz 802.11g Wireless Bridge

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 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 802.11g Wireless Bridge connects difficultto-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.

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). The SMC2586W-G is compatible with other SMC 2.4GHz Wireless bridges such as the SMC2682W and SMC2582W-B in Bridge Master or Bridge slave modes. 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, SMC2586W-G supports SNMP allowing easy integration of your wireless LAN with your wired infrastructure. Other management features include a system log, event log and syslog. Above all, SMC2586W-G 802.11g Wireless Bridge comes with the EliteConnect Management Utility that eases the Network Administrators' large-scale remote management problems. EliteConnect Management Utility is simple and intuitive to use. Yet the utility is a convenient and powerful tool for IT professionals to remotely configure, manage, and upgrade firmware to all SMC Wireless Bridges (SMC2586W-G, SMC2582W-B, SMC2682W). 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). 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 technical support, 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 and Benefits

High Performance & Functionality

- IEEE 802.11b/g compliant
- Operates in the license-free 2.4GHz radio band
- High data rates up to 54 Mbps in 802.11g, and 11 Mbps in 802.11b 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 Web-based management, Telnet, TFTP, SNMP, Syslog, and Event Logging
- EliteConnect Management Utility allows IT professionals to remotely configure, manage, and upgrade firmware of SMC Bridges
- Detachable antenna
- 802.3af Power over Ethernet
- Transmit Power Control (-1 - 15 dBm)

Compatibility

- 802.11b
- 802.11g
- 802.3
- 802.3u
- 802.3af

Product	Model No	Description
EliteConnect™	SMC2586W-G	2.4GHz 802.11g Wireless Bridge
	SMCPWR-INJ3	Power Injector

SMC® Networks

Specifications

SMC2586W-G

Standards:
- 802.11b
- 802.11g
- 802.3
- 802.3u
- 802.3af
- 802.3x

Data rate & modulation:
- OFDM@54Mbps,CCK@11/5.5Mbps, DQPSK@2Mbps and DBSK@1Mbps

Radio Technology:
- OFDM
- DSSS

Operating Range:
- Up to 352 meters

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

Frequency range:
- 2.402 ~ 2.472 GHz (North America)
- 2.402 ~ 2.4970 GHz (Japan)
- 2.402 ~ 2.4835 GHz (Europe ETSI)

Transmission output Power:
- High : 14-15 dBm
- Medium High : 11-12 dBm
- Medium : 4-6 dBm
- Medium Low : 1-2 dBm
- Low : -1-0 dBm

Receiving Sensitivity:
- < -80 dBm, Typical

Antenna:
- Removable 2 dBi Antenna with R-SMA connector

Operational Modes:
- Access Point/Bridge (used in pure SMC2586W-G bridging environment)
- Bridge Master (used when SMC2586W-G, SMC2582W-B, and SMC2682W are in the Bridging environment)
- Bridge Slave (used when SMC2586W-G, SMC2582W-B, and SMC2682W are in the Bridging environment)

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

Security:
- 64/128-bit WEP
- 802.1x
- WPA
- EAP-MD5, EAP-TLS, EAP-TTLS, PEAP
- 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 (0°~55°C), storage (-20°~70°C)
- Humidity: 5% to 95% non-condensing in storage

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

Power Supply
- Input: 100VAC 60Hz
- Output: 12VDC, 1A

Dimensions (without antenna):
- 21,6 x 14 x 3,2 cm

Weight:
- 436 g

SMCPWR-INJ3 Specification

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:
- 10,2 x 14 x 3,8 cm

Weight:
- 656 g

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

Operating Temperature:
- 0° to 40° C

Operating Humidity:
- Maximum 90% Non-condensing

Storage Temperature:
- -25° to 85° C

Storage Humidity:
- Maximum 95%, Non-condensing

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

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