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 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.

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 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. 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 24/7 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
- IEEE 802.11b/g compliant
- 2.4GHz frequency band requires no FCC license
- 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

### Benefits
- Wi-Fi compliant
- High-performance 54 Mbps high data rate wireless LAN
- Connects two separated LANs (usually located in different buildings) without needing expensive cabling or leased lines
- Instant access to shared information in formerly separate LANs
- Multiple locations share instant access to a single, high-speed Internet connection
- Flexible configuration and operational modes include Access Point/Bridge, Bridge Master, and Bridge Slave
- Advanced wireless security including 64-bit or 128-bit key WEP, 802.1x, Wi-Fi Protected Access (WPA), disabled SSID broadcast, wireless client isolation to prevent communications between wireless clients, and MAC address filtering to block unauthorized wireless clients.
- Flexible network management features make it simple for IT professionals to configure and remotely manage the network
- EliteConnect Management Utility reduces total cost of ownership
- Optional use of SMC 2.4GHz High Gain Antenna for extended range and coverage
- 802.3af Power over Ethernet (using optional SMCPWR-INJ1) support reduces installation cost by using standard Category 5 cable to provide power to the Wireless Bridge

### Compatibility
- 802.11b
- 802.11g
- 802.3
- 802.3u
- 802.3af
EliteConnect™
2.4GHz 802.11g Wireless Bridge

SMC2586W-G

Standards:
• 802.11b
• 802.11g
• 802.3
• 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 1,155 feet

Channels:
• USA: 1-11 (FCC),
• Canada: 1-11 (IC),
• Europe: 1-13 (ETSI),
• France: 10-13
• 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)
• 2.4465 ~ 2.4835 GHz (France)

Transmission output Power:
• 18 dBm max

Receiving Sensitivity:
• < -80 dBm, Typical

Antenna:
• Removable 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
• 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):
• 8.5" x 5.5" x 1.25"

Weight:
• 0.96 lbs

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:
• 4” x 5.5” x 1.5”

Weight:
• 1.38 lbs

LED5
• AC Power (Green)
• Power Active (Red)
• Over Current Protection (Red, Flash)
• Connectors Shielded RJ-45

Operating Temperature:
• 32° to 104° F (0° to 40° C)

Operating Humidity:
• Maximum 90% Non-condensing

Storage Temperature:
• -13° to 185° F (-25° to 85° C)

Storage Humidity:
• Maximum 95%, Non-condensing

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