SMC2582W-B is designed to connect two or more separated Local Area Networks (usually located in different buildings), making it 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 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 Mbps Wireless Bridge connects difficult-to-wire locations, branch offices, schools 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 EliteConnect Wireless Bridge combines all of the above features with SMC’s award winning 24/7 technical support, making it the best available, fast, reliable and cost-effective building-to-building solution in the market.
EliteConnect™
2.4GHz 11 Mbps Wireless Bridge

SMC2582W-B

Standards
• 802.3
• 802.3u
• 802.11b
• 802.3af

Data Rate & Modulation
CCK@1/5/SMbps, 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
11 Mbps 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:
0.82 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:
Aggregated 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
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

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMC2582W-B</td>
<td>EliteConnect 2.4GHz 11Mbps Wireless Bridge</td>
</tr>
<tr>
<td>SMCPWR-INJ3</td>
<td>EliteConnect Power Injector</td>
</tr>
</tbody>
</table>