

SMCWHSG44-G EliteConnect™ 2.4GHz 802.11g Wireless Hotspot Gateway



OVERVIEW

The EliteConnect™ 2.4GHz 802.11g Wireless Hotspot Gateway (SMCWHSG44-G) is a multi-functional, all-in-one, hotspot solution that provides: 1) a secure gateway to the Internet 2) high-speed wireless access within the Local Area Network 3) authentication, authorization and accounting services for wireless or wired clients and 4) support for point-of-sale ticket/receipt printing.

As an xDSL/Cable modem gateway, the SMCWHSG44-G offers a combination of up to 4 LAN ports or up to 4 WAN ports. In addition, one designated LAN port supports 802.11af compliant POE. Multiple WAN ports can provide up to 4 xDSL/Cable modem connections, or be used for out-bound load-balancing and bandwidth aggregation. Multiple WAN ports also may be configured to provide a redundant link to guarantee an always-on-line connection. The gateway supports a host of security features such as NAT, SPI firewall and MAC address filtering to ensure a secure Internet environment.

SMC's Hotspot Gateway comes with a built-in 54Mbps 802.11g Access Point to provide high-speed wireless access. Wireless hotspot coverage may be extended by using the Wireless Distribution System

(WDS) feature to repeat or bridge wireless communication between up to six WDS enabled Access Points. Clients using nomadic wireless devices such as laptops and PDA, etc., may then roam over a large area while remaining connected within a secure wireless network.

Venues that wish to offer a hotspot service can use the SMCWHSG44-G as a means to authenticate, authorize and bill their clients for services such as Internet access. Easy to configure through a web-based management interface, authentication, authorization and accounting settings are supported via 802.1x/RADIUS or by a built-in local database that can host up to 2000 entries. SMC's Hotspot Gateway may also be set up to display specific web pages and web banners for commercial and advertisement purposes during the user login period.

The SMCWHSG44-G supports a small form-factor, point-of-sale ticket printer (SMCWHS-POS)*. When connected by the COM port of the Hotspot gateway, the Mini-POS Ticket Printer is able to print out a receipt based on access time. In addition, important information for the client is printed on the ticket such as logon username and password, SSID, security method and encryption key. The ticket is issued simply by typing in a command for the amount of access time from an auxiliary keypad connected to the printer.

SMCWHSG44-G enables installation of secure, easy to manage hotspots as a one-box solution. The multi-functional features of the SMCWHSG44-G support applications that are well suited for hotspot environments such as coffee shops, hotel lobbies, exhibition areas and small to mid-sized transportation centers where Internet Access can be an added value for guest-services.

* SMCWHS-POS is sold separately outside North America.

FEATURES	BENEFITS
AP/Bridge	High performance data rates up to 54 Mbps in 802.11g, and up to 11 Mbps in 802.11b with auto-fall-back feature. In addition, the IEEE 802.11 WDS (Wireless Distribution System) technology can be used to manually establish up to 6 wireless links between APs.
AAA	Authentication, Authorization and Accounting (AAA) services are supported via 802.1x/RADIUS client and server devices. The Wireless Hotspot Gateway also supports an Internal Database of users so that you do not have to add an additional Radius Server.
POS Ticket Printer	Supports an external ticket printer/keypad, so a Hotspot Venue can print a ticket for temporary users that will only need the fractal time for Internet access. Includes Mini-POS Ticket Printer (SMCWHS-POS) for ticket printing and device*.
Gateway/ Router	Provides up to 4 DSL/CATV connections, so it can support out-bound load-balancing and bandwidth aggregation. The multiple WAN connections provide fail-over and connection back-up capability to guarantee 'always-on-line' connections.
SPI Firewall	Analyzes incoming and outgoing packets based on a set of criteria for abnormal content. SPI can detect hacker attacks, and can summarily reject an attack if the packet fits a suspicious profile.



TECHNICAL SPECIFICATIONS

SMCWHSG44-G

STANDARDS

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

NETWORK INTERFACE

- 5-Port 10/100 Mbps Fast Ethernet (RJ-45) for LAN/WAN connections
- IEEE802.11b: 1, 2, 5.5, 11 Mbps, auto-fallback
- IEEE802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps, auto-fallback

WAN INTERFACE

- Up to 4 WAN-Ports with load-balancing
- Static-IP, Dynamic-IP, PPPoE, Big Pond

TICKET-PRINTER INTERFACE

- RS-232c

HOTSPOT ACCESS CONTROL

- IEEE802.1x/RADIUS AAA authentication
- Built-in 2000-user authentication database
- Un-restricted users access
- Walled Garden

OPERATIONAL MODES

- Access Point/WDS (Wireless Distribution System)

CHANNELS / FREQUENCY RANGE

- US, Canada
 - 11 channels, 2.400 ~ 2.4720 GHz
- ETSI
 - 13 channels, 2.400 ~ 2.4835 GHz
- Japan
 - 14 channels, 2.400 ~ 2.4970 GHz

MODULATION TYPE

- OFDM@54 Mbps, CCK@11/5.5 Mbps, DQPSK@2 Mbps, DBPSK@1 Mbps

RECEIVE SENSITIVITY

- 11 Mbps 8% FER@-83 dBm (typical)
- 54Mbps 10% PER@-68 dBm (typical)

TRANSMIT OUTPUT POWER

- Max. 18 dBm
- Transmit Power Control :

	802.11b	802.11g
High	16-18 dBm	14-15 dBm
Medium High	13-15 dBm	11-12 dBm
Medium	10-12 dBm	4-6 dBm
Medium Low	7-9 dBm	1-2 dBm
Low	4-6 dBm	-1-0 dBm

ANTENNA TYPE

- One detachable 2 dBi antenna with R-SMA (male) connector

WIRELESS SECURITY

- 64-/128-bit WEP Encryption
- WPA (802.1x/ TKIP)
- Enable/Disable SSID broadcast
- MAC address Access Control
- Wireless Client isolation

NETWORK SECURITY

- Packet filtering (Ethernet, IP, TCP/UDP)
- URL filtering
- WAN ICMP request blocking
- Stateful packet inspection (SPI)
- Wireless-to-Ethernet traffic blocking

PROTOCOLS

- TCP/IP, HTTP, DHCP, ICMP, DNS, NetBIOS, AppleTalk, IPX/SPX

NETWORK ADDRESS TRANSLATIONS

- Virtual server
- PPTP, L2TP, IPsec Pass-through
- DMZ
- Multiple Public IP addresses support

MANAGEMENT

- Web-based management GUI, UPnP, SNMP
- Firmware Upgrade via TFTP, HTTP
- Reset button
- System Log
- DHCP Server/Relay, Static DHCP mappings
- Hardware Watchdog Timer
- Zero Client Reconfiguration

STATUS LEDs

- Power, LAN link/activity, WLAN link/activity, System alive status

POWER

- Output: 12 VDC, 1A; Input: 100 VAC 60 Hz
- Power-over-Ethernet support (IEEE802.3af)

REGULATION COMPLIANCE

- FCC Class B, CE/ETSI, Industry Canada

STORAGE / OPERATING TEMPERATURE

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

HUMIDITY

- 5 - 95% non-condensing in storage

DIMENSIONS

- 216 x 140 x 32 mm
- 8.5 x 5.5 x 1.25 inch

WEIGHT

- 0.436 kg
- 0.96 lbs

WARRANTY

- Limited lifetime

TICKET PRINTER (SMCWHS-POS)

- Direct line thermal printing
- Keypad for client time/ rate configuration
- High resolution 203 dpi
- High speed printing - 5 inches per second
- Cash drawer connector

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