



SMC8511WG

IEEE 802.11a/b/g Outdoor Multi-Radio Wireless Access Point with Integrated Cable Modem

OVERVIEW

The SMC8511WG Outdoor Multi-Radio Wireless Access Point with integrated DOCSIS cable modem offers cable operators a quick and easy method to extend the reach of their existing DOCSIS networks and to increase service offerings within their current infrastructure without a cable drop. In addition to plant extension applications, the SMC8511WG can also serve as an Access Point allowing multiple PCs to connect from a public hotspot. The ruggedized, industrial design of the SMC8511WG can withstand harsh outdoor environments, and the dual external antennas provide extended wireless coverage.

KEY FEATURES

Rugged, Outdoor Enclosure

Certified IP68 sturdy water-tight housing to withstand harsh outdoor environments

Built-in automatic thermal sensor and regulator module to facilitate deployment in cold regions

2 durable-N-type external antennae connectors for ultimate flexibility

Advanced Business Class Features

Static IP support via RIP/v1/v2 or Static Routes

VPN access to corporate LANs via pass through of L2TP, PPTP, and IPSec

DHCP server supports management of Static IP block

Dynamic WAN Interface Features

Flexible wireless network distribution system

Bandwidth aggregation by logically combining multiple RF links to achieve super trunk mode for high bandwidth deployments

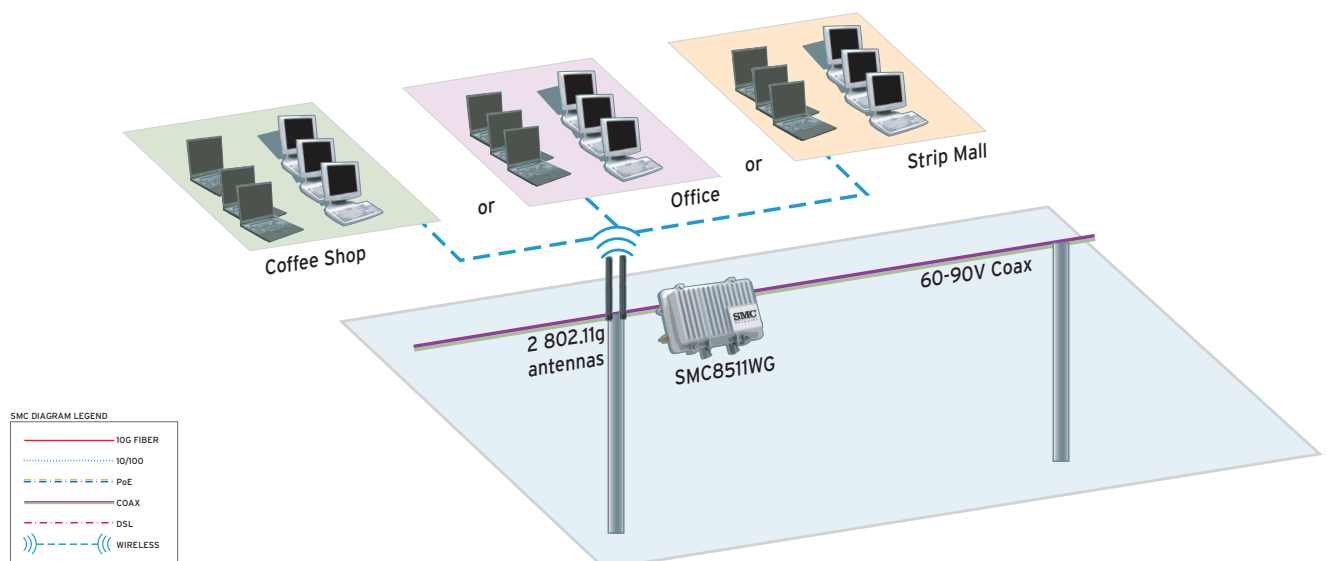
Smart traffic load balancing across multiple RF links

Full Featured Operational Support

User friendly and powerful CLI supports quick configuration and troubleshooting

Remote management and provisioning via GUI and CLI-Point to Point, Point to Multipoint, Access Point

APPLICATION DIAGRAM



TECH SPECS - SMC8511WG

802.11 a/b/g WIRELESS

- Standard Support
- Wireless: IEEE 802.11a, IEEE802.11b/g

INTERFACE

- Wireless : Antenna Connector: 2 x Reversed Female N-type

CABLE MODEM FEATURES

- DOCSIS 2.0 certified
- 64/256QAM auto detection
- Support maximum DOCSIS transfer rates
- Independent resets for downstream and upstream blocks
- Quality of Service (QoS)
- Support 16 Service Identifiers (SIDs)
- Support 64/128/256 bit RC4 authentication and encryption

NETWORKING

- IEEE 802.1d compliant bridging
- DHCP Client and DHCP Server
- SNMP/DDNS/DMZ/Telnet/SSH/Radius/TACACS/TACACS+/UPnP

SECURITY

- SSID: Support Enable/Disable Broadcast/ Support Multi-ESSID
- WEP:
 - 64/128/152-bit Data Encryption
 - Authentication type Open system/ Shared Key
- 802.1x : 802.1x Client and Server
- Radius: Support Radius Client
- WPA: Wi-Fi Protected Access (EAP/TKIP)
- WPA 2: AES/802.11i
- MAC: MAC Address Filtering

ENCRYPTION

- 56-bit/128-bit DES
- 64-bit/128/256-bit WEP

ENVIROMENTAL

- Operating Temp: -30 to +65 C -40 to +60C
- Operating Humidity: 5%~95% non-condensing
- Storage Temp: -30 to +70C

REGULATION AND COMPLIANCE

- FCC Part 15 Class B & C & A
- Safety: UL1950,CB,CCIB

COMPLIANCE

- DOCSIS 1,0,1.1, 2.0 CableLabs® Certified™

DIMENSIONS (without brackets)

- 12.6 x 8.5 x 5.1 in (L x W x H)
- 32 x 21.5 x 13cm ((L x W x H)

SYSTEM SETTING

Standard: AP/AP Client/Bridge/ Router

RF INTERFACE APPLICATION

Interface 1	Interface 2
Access Point (AP)	Access Point (AP)
Access Point (AP)	Wireless Station (Client)
Wireless Station (Client)	Wireless Station (Client)

- Support Dynamic WAN Interface assignments

FREQUENCY RANGE

- USA: 2.4-2.483GHz, 5.15-5.35GHz, 5.725-5.825GH

CHANNEL SUPPORT

- 802.11b/g
 - US/Canada: 11 (1~11)
- 802.11a
 - US/Canada: 12 non-overlapping channels (5.15 ~5.35GHZ, 5.47~5.725 GHz)

WIRELESS TRANSMISSION RATE

- 802.11b/g: 11,5,5,2,1Mbps, auto-fallback, up to 54Mbps
- 802.11a: 54,48,36,24,18,12,9,6Mbps, auto-fallback

TRANSMITTED POWER

- 802.11b: 18dBm
- 802.11g: 18dBm @6Mbps
: 15dBm@54Mbps
- 802.11a: 17dBm @6Mbps
: 13dBm@54Mbps

WIRELESS OTHER SETTING

- Enable/Disable Broadcast ESSID
- 802.11b/g compliant
- Bandwidth Control of Wireless Client
- WPA-PSK / WPA-EAP with TKIP/ CCMP WPA Encryption Type support
- 802.1x EAP-TLS / MD5 WEP Key support
- 64/128/152 bits Dynamic WEP keys
- MAC Filtering
- Trunk: Trunking, Smart Traffic Load Balance, One Way Transmit, Failover
- 802.11h : DFS and TPC
- Software Alignment/Deployment Tools
- Dual Image (backup)

POWER

- CATV Power AC 36~90V, < 15W

DATA CABLE MODEM

- Operation Frequency
- Downstream: 91~ 857MHz
- Upstream: 5~42MHz

FREQUENCY SELECTION

- Downstream: Auto Scanning; Controlled by TFTP/SNMP
- Upstream: Controlled by UCC/UCD/ TFTP/SNMP

BANDWIDTH

- Downstream: 6MHz
- Upstream: 200kHz, 400kHz, 800kHz, 1.6kHz, 3.2kHz

DEMODULATION

- Downstream: 64QAM, 256QAM
- Upstream: QPSK, 16QAM

PHYSICAL SPEED

- Downstream: 38 Mbps (64QAM), 42Mbps (256QAM)
- Upstream: 320...5120 Kbps (QPSK) 640...10240 Kbps (16QAM)

RF INPUT/OUTPUT POWER

- Downstream: ITU-T J.83 Annex B
- Upstream: DOCSIS Upstream FEC with scalable interleaving

NETWORK PROTOCOL

- Ipv4/ARP/ICMP/UDP/IGMPv2/DHCP/ TFTP/SNMPv1/v2c/v3/RIP v1/2

ELECTRICAL SPECIFICATION

- Input Power: 100 ~240 V AC, 50/60 Hz

WEIGHT

- 8.4lb
- 3.8kg

WARRANTY

- Limited Lifetime

Contact

North America
20 Mason
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

©2008, SMC Networks. All rights reserved.