

## SMC2555W-AG EliteConnect™ Universal 2.4GHz/5GHz Wireless Access Point



### OVERVIEW

The EliteConnect™ Universal 2.4GHz/5GHz Wireless Access Point (SMC2555W-AG) provides a secure, high-performance, and future proofed enterprise class wireless LAN supporting up to 64 users. The reliability, security, manageability, and upgradability of the SMC2555W-AG make it an ideal solution for any organization looking to satisfy its workforce’s mobile computing needs. The EliteConnect™ Universal 2.4GHz/5GHz Wireless Access Point (SMC2555W-AG) ships as a tri-mode 802.11a, 802.11b, 802.11g access point, supporting 5GHz, 54Mbps and 2.4GHz, 54Mbps/11Mbps radio transmission. The 802.11a and 802.11b/g mini-PCI modules future proof your wireless network and also provides the maximum mobility and flexibility needed for today’s wireless standards.

Wireless LAN security is a main concern in enterprise deployment. The EliteConnect™ Universal 2.4GHz/5GHz Wireless Access Point (SMC2555W-AG) provides enterprise level advanced authentication and encryption security features. Security features include the new Wi-Fi Protected Access (WPA), up to 152-bit WEP encryption, 802.1x authentication access control with key rotation (MD5, EAP-TLS per user per

session key, EAP-TTLS per user per session key, session key and broadcast key rotation, and PEAP), support for FUNK Odyssey and Microsoft RADIUS Server, up to 1024 MAC address authentication, open/share authentication, disabled SSID broadcast, and up to 64 virtual LANs (VLANs).

The new SMC2555W-AG also has flexible management features. Web-based network management tools make configuration and remote management of the network simple. IT professionals can also use Command Line Interface (CLI) to quickly and easily manage the device and wireless network. In addition, SMC Networks EliteView Management Software (version 6.11)\* and SNMP support in SMC2555W-AG allows easy integration of your wireless LAN with your wired infrastructure. Other management features include Syslog and Event Logging.

SMC2555W-AG provides configurable output transmit power to adjust coverage area size. If extended range is required, users can choose among the wide selection of SMC 2.4GHz High Gain Antennas to achieve the need in the 802.11b/g frequency band. SMC2555W-AG comes with a unique design of two Dual Band Antennas with an RP-MMCX connector for optional 2.4GHz High Gain Antenna for extended range and coverage (optional SMC2555W-JMPCBBL Jumper Cable is available to connect from RP-MMCX to SMC Antenna Cables). The new enterprise level dual band Wireless Access Point supports Power over Ethernet that adheres to 802.3af standard. Power over Ethernet support reduces installation cost by using standard Category 5 cable to provide power to the Access Point. In addition, SMC2555W-AG provides anti-theft mechanism by integrating Kensington security slot on the device. All of the above make SMC2555W-AG a perfect solution with unparalleled flexibility and investment protection for your wireless LAN deployment.

FEATURES	BENEFITS
IEEE802.11a, 802.11b and 802.11g compliant	Simultaneous support of IEEE 802.11a, IEEE 802.11g, and 802.11b wireless clients, IEEE802.11a/b/g compliance allows for seamless interoperation among multiple vendors
Flexible management features	Flexible network management through CLI, Web, Telnet, TFTP, SNMP make it simple and easy to monitor, troubleshoot, and view event logging
External antenna option	Optional use of 2.4GHz High Gain Antenna for extended range and coverage
Enterprise level of authentication and encryption security	Enterprise class security features including the new WPA, up to 152-bit WEP encryption, AES, 802.1x authentication and dynamic key management, up to 256 MAC address authentication, disabled SSID broadcast
Anti-Theft mechanism	Built-in locking mechanism protects investment
Power over Ethernet support (optional)	Reduces installation cost by using standard Cat. 5 cable to provide power to the Access Point

## TECHNICAL SPECIFICATIONS

## SMC2555W-AG / SMC-PWR-INJ3

### STANDARDS

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

### INTERFACE

- 1x 10BASE-T/100BASE-TX (RJ-45) Port
- 1x RS-232c Serial Port
- IEEE802.11a/b/g Wireless LAN

### MEDIA ACCESS PROTOCOL

- CSMA/CA

### OPERATIONAL MODE

- Infrastructure Mode

### TRANSFER DATA RATES

- IEEE802.11a
  - 54, 48, 36, 24, 18, 12, 9, 6 Mbps with auto-Fallback
- IEEE802.11b
  - 11, 5.5, 2, 1 Mbps with auto-Fallback
- IEEE802.11g
  - 54, 48, 36, 24, 18, 12, 9, 6 Mbps with auto-Fallback

### MODULATION TYPE

- IEEE802.11a/g: OFDM

Modulation	Data Rate
BPSK	6, 9 Mbps
QPSK	12, 18 Mbps
16-QAM	24, 36 Mbps
64-QAM	48, 54 Mbps

- IEEE802.11b: DSSS

Modulation	Data Rate
DBPSK	1 Mbps
DQPSK	2 Mbps
CCK	5.5, 11 Mbps

### CHANNELS/FREQUENCY RANGE

- 2.4 GHz frequency band
  - 11 channels, 2.400 ~ 2.4720 GHz (US, Canada)
  - 13 channels, 2.400 ~ 2.4835 GHz (ETSI)
  - 14 channels, 2.400 ~ 2.4970 GHz (Japan)
- 5 GHz frequency band
  - 12 channels, 5.15 ~ 5.35 GHz, 5.725 ~ 5.825 GHz (US)
  - 19 channels, 5.15 ~ 5.35 GHz, 5.470 ~ 5.725 GHz (ETSI\*)
  - 4 channels, 5.15 ~ 5.25 GHz (Japan)
- Dynamic Frequency Selection (DFS) for ETSI countries
- Transmit Power Control (TPC) for ETSI countries

\* Please be aware of restrictions based on local regulations!

### TRANSMIT OUTPUT POWER (E.I.R.P.)

- IEEE802.11a/g

Transfer Rate	IEEE802.11a	IEEE802.11g
6~24 Mbps	17	20 dBm
36 Mbps	17	19 dBm
48 Mbps	17	16 dBm
54 Mbps	17	14 dBm

- IEEE802.11b
  - 16 dBm

### RECEIVE SENSITIVITY

- IEEE802.11g

Transfer Rate	IEEE802.11a	IEEE802.11g
6 Mbps	-88	-88 dBm
9 Mbps	-87	-87 dBm
12 Mbps	-86	-86 dBm
18 Mbps	-84	-85 dBm
24 Mbps	-81	-81 dBm
36 Mbps	-77	-77 dBm
48 Mbps	-73	-72 dBm
54 Mbps	-69	-70 dBm

- IEEE802.11b

Transfer Rate	IEEE802.11b
1 Mbps	-93 dBm
2 Mbps	-90 dBm
5.5 Mbps	-90 dBm
11 Mbps	-87 dBm

### ANTENNA TYPE

- RP-MMCX connector for external 2.4 GHz Antenna

### OPERATING RANGE

- 802.11a: up to 510 m/ 1.673 ft
- 802.11b: up to 515 m/ 1.689 ft
- 802.11g: up to 525 m/ 1.722 ft
- Ranges vary based upon numerous environmental factors so individual performance may be significantly different.

### SECURITY

- 64-/128-/152-bit WEP encryption
- AES & TKIP encryption
- Wi-Fi Protected Access (WPA)
- IEEE802.1x, EAP-MD5, EAP-TLS, EAP-TTLS, PEAP, LEAP
- Disable SSID Broadcast
- MAC address filtering
- 64 VLANs

### CONFIGURATION AND MANAGEMENT

- Web-browser, Command Line Interface (CLI), Telnet, TFTP, SNMP
- EliteView (v6.11)
- Syslog, Event Logging

### MAXIMUM CLIENTS

- 64

### LED

- Power, Ethernet Link/Activity, Wireless Link/Activity

### POWER SUPPLY

- Input: 100-240V AC, 50-60 Hz
- Output: 3.3 VDC, 4A
- Consumption: 13.2W

### TEMPERATURE

- Operating: 0° ~ 55°C / 32° ~ 131°F
- Storage: 0° ~ 70°C / 32° ~ 158°F

### HUMIDITY (NON-CONDENSING)

- Max. 95% typical

### DIMENSION (WITHOUT ANTENNAS)

- 137 x 218 x 33 mm / 5.40 x 8.60 x 1.29 in

### WEIGHT

- 800 g / 1.76 lbs

### COMPLIANCE

- Wi-Fi compliant
- FCC Part 15 Class B
- IC (Canada)
- ETSI, EN300328-1, EN60950, EN301489-1/-17 (Europe)

### SAFETY

- UL1950
- CSA/NTRL 22.2 No. 950
- LVD/EN60950 (TUV/GS)
- IEC60950 (CB)

### WARRANTY

- Limited Lifetime

### SMC-PWR-INJ3 (OPTIONAL)

### INPUT POWER REQUIREMENTS

- AC Input Voltage: 90 - 264VAC, 47-63 Hz
- AC Input Current: 2A at 100VAC, 1A at 240VAC (-48VDC)

### OUTPUT VOLTAGE

- Aggregate Power: 50W (48VDC)

### PoE OUTPUT SPECIFICATION

- PIN Assignments and Polarity: (+) 4/5, (-) 7/8

### LEDs

- AC Power, Power Active, Over Current Protection, Connectors Shielded RJ-45

### TEMPERATURE

- Operating: 0° ~ 40°C / 32° ~ 104°F
- Storage: -25° ~ 85°C / -13° ~ 185°F

### HUMIDITY (NON-CONDENSING)

- Max. 90% in storage

### DIMENSION

- 101 x 140 x 38 mm / 4 x 5.5 x 1.5 in

### WEIGHT

- 626 g / 1.38 lbs

### COMPLIANCE

- FCC Part 15 Class B
- CE
- UL1950
- CSA A22.2 No. 950
- EN60950
- CB

### Contact

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