

SMC2888W EliteConnect™ 2.4GHz/5GHz DualBand Outdoor Wireless Access Point/Bridge



OVERVIEW

The EliteConnect™ Universal 2.4GHz/5Ghz Outdoor Access Point/Bridge is designed to bridge two or more wired LAN's (usually located in different buildings), while simultaneously providing wireless access to local or mobile users. The SMC2888W incorporates a dual radio architecture to bridge over one wireless band and provide wireless client access over the other band. The Dual-Band Outdoor Access Point/Bridge is also completely weatherproof and capable of being installed in a wide variety of different environments.

SMC2888W uses Wireless Distribution System to allow bridging between remote locations. The SMC2888W comes in two models, SMC2888W-M (master) and a SMC2888W-S (slave). The Master Bridge supports up to 16 WDS Bridge links to remote LAN's and branch locations. Using dual radio architecture allows for different bridging options using either the 802.11a or 802.11b/g wireless band. As an alternative if the bridging functionality is not required you can use both 802.11a and 802.11b/g in access point mode.

Security is the main concern for customers regarding enterprise wireless networking. The EliteConnect™ Universal 2.4GHz/5Ghz Outdoor Access Point/Bridge provides enterprise level advanced authentication and encryption security features. Security features include 64/128/152-bit WEP, 128-bit Advanced Encryption Standard (AES), Wi-Fi Protected Access (WPA), and authentication using 802.1X. SMC2888W also supports disable SSID Broadcast, Client Isolation, and MAC filtering.

SMC2888W allows easy management options through HTTP, SNMP, and Telnet. Web based network management tools make configuration and remote management of the network simple. SNMP allows for easy integration into your existing wired network and management infrastructure. Telnet uses command line interface for local or remote management. Other management features include Syslog and local Event Logging.

The Dual-Band Outdoor Bridge comes with available antenna connections to add optional SMC high gain antennas to extend your wireless coverage and range. The Master Bridge has the option for both 802.11a and 802.11g high gain antenna options. The Slave Bridge has a 17dbi built in 802.11a flat panel antenna and optional 802.11g antenna. SMC's line of high gain antennas offers the flexibility and reliability that customer require.

Other key Enterprise level features include Spanning-Tree support and a RSSI (Received Signal Strength Indicator) indicator. Spanning Tree can be used to detect and prevent network loops in your Wireless LAN. This ensures only one route exists between any two points on a network and can allow for Redundancy in case one link goes down. RSSI is built into the web interface allowing a user to view the Signal to Noise ratio between two bridge links, thus enabling better antenna alignment and link monitoring. As optional equipment, SMC provides a RSSI Meter to physically determine signal values.

FEATURES	BENEFITS
IEEE 802.11b/g, 802.11a compliant	Wi-Fi Compliant
High data rates up to 54 Mbps in 802.11g and up to 108 Mbps in 802.11a with Turbo mode.	High-performance 108Mbps high data rates
Connects up to 16 remote LANs	Instant access to shared information and resources in remote LAN's
Support up to 64 users	Ability to share one high speed internet connection
Wireless Distribution System (WDS)	Flexible Bridging configuration options
Advanced wireless security and encryption	Advanced wireless security including 64/128/152-bit WEP encryption, WPA, 802.1x, disable SSID broadcast, client isolation to block client to client communication, and MAC filtering.
Flexible Management features including HTTP, Telnet, TFTP, SNMP, Syslog, and Event Logging	Simple to use device management options including web-based management, TFTP, Telnet, Syslog, and SNMP.
Power over Ethernet	Power over Ethernet that allows for easy installation in remote or hard to install locations
Detachable Antenna	Optional use of SMC high gain antennas
RSSI detection and measurement	Outdoor weatherproof design



TECHNICAL SPECIFICATIONS

SMC2888W / SMC2888W-S

MAXIMUM CHANNELS (OUTDOOR)

- 802.11a
 - US & Canada: 9 (normal mode), 3 (turbo mode)
 - Japan: 4 (normal mode), 1 (turbo mode)
 - ETSI: 11 channels (normal mode), 4 (turbo mode)
 - Taiwan: 4 (normal mode), 1 (turbo mode)
- 802.11g
 - FCC/IC: 1-11
 - ETSI: 1-13
 - France: 1-7
 - MKK: 1-14
 - Taiwan: 1-11

DATA RATES

- 802.11a
 - Normal Mode: 6, 9, 12, 18, 24, 36, 48, 54 Mbps per channel
 - Turbo Mode: 12, 18, 24, 36, 48, 72, 96, 108 Mbps per channel
- 802.11g
 - 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps per channel
- 802.11b
 - 1, 2, 5.5, 11 Mbps per channel

MAXIMUM CLIENTS

- 64

MODULATION TYPES

- 802.11a: BPSK, QPSK, 16-QAM, 64-QAM
- 802.11g: CCK, BPSK, QPSK, OFDM
- 802.11b: CCK, BPSK, QPSK

802.11b/g RADIO

RATE	SENSITIVITY
	2412 ~ 2484 GHz (DBM)
• 802.11g - 6Mbps	-88
• 802.11g - 9Mbps	-87
• 802.11g - 12Mbps	-86
• 802.11g - 18Mbps	-85
• 802.11g - 24Mbps	-81
• 802.11g - 36Mbps	-77
• 802.11g - 48Mbps	-72
• 802.11g - 54Mbps	-70
• 802.11b - 1 Mbps	-93
• 802.11b - 2 Mbps	-90
• 802.11b - 5.5Mbps	-90
• 802.11b - 11 Mbps	-87

802.11a RADIO

RATE	SENSITIVITY	SENSITIVITY	SENSITIVITY	SENSITIVITY
	5.150~5.250GHZ (DBM)	5.250~5.350GHZ (DBM)	5.500~5.700GHZ (DBM)	5.725~5.825GHZ (DBM)
• 802.11A - 6MBPS	-88	-88	-88	-88
• 802.11A - 9MBPS	-87	-87	-87	-87
• 802.11A - 12MBPS	-86	-86	-86	-86
• 802.11A - 18MBPS	-84	-84	-84	-84
• 802.11A - 24MBPS	-81	-81	-81	-81
• 802.11A - 36MBPS	-77	-77	-78	-78
• 802.11A - 48MBPS	-73	-73	-73	-73
• 802.11A - 54MBPS	-69	-70	-70	-67

NETWORK CONFIGURATION

- Bridge Mode:
 - Point-to-point and point-to-multipoint
- Access Point Mode:
 - Infrastructure

WIRELESS

- 64/128/152-bit WEP encryption
- 128-bit AES encryption
- WPA (Wi-Fi Protected Access)
- IEEE802.1x support
- Disable SSID Broadcast
- Wireless Client Isolation
- MAC address filtering
- 64 VLANs through 802.1x
- DFS & TPC

OPERATING FREQUENCY

- 802.11a
 - 5.15 ~ 5.25 GHz (lower band) US/Canada
 - 5.25 ~ 5.35 GHz (middle band) US/Canada
 - 5.725 ~ 5.825 GHz (upper band) US/Canada
- 802.11b/g
 - 5.25 ~ 5.35 GHz (middle band) Taiwan
 - 5.725 ~ 5.825 GHz (high band) Taiwan
- 802.11b/g
 - 2.4 ~ 2.4835 GHz (US, Canada, ETSI)
 - 2.4 ~ 2.497 GHz (Japan)
 - 2.400 ~ 2.4835 GHz (Taiwan)

OUTPUT POWER

- 5GHz - 18 dBm
- 2.4GHz - 17 dBm

POWER INJECTOR

- Input: 100-240 VAC, 47-63 Hz, 1.5 A
- Output: 48 VDC, 1.2 A
- Bridge Power (DC)
- Input voltage: 48 volts, 1.2 A, 30 watts maximum

PHYSICAL SIZE

- 7.8 x 7.8 x 2.49 in
- 19.8 x 19.8 x 6.33 cm

WEIGHT

- 10.58 lbs
- 4.8 kg

ANTENNA CONNECTOR TYPE

- N Type Female

TEMPERATURE

- OPERATING: -33° TO 55 °C
- -27.4° TO 131 °F
- STORAGE: -40 TO 80 °C
- -40° TO 176 °F

HUMIDITY

- 5% TO 95% (NON-CONDENSING)

EMC COMPLIANCE (CLASS B)

- FCC CLASS B (US)
- RTTED 1999/5/EC
- DGT (TAIWAN)

RADIO SIGNAL CERTIFICATION

- FCC PART 15 15.407(B) (5 GHZ)
- FCC PART 15.247 (2.4 GHZ)
- EN 300.328, EN 302.893
- EN 300 826, EN 301.489-1, EN 301.489-17
- ETSI 300.328; ETS 300 826 (802.11B)

SAFETY

- CSA/NTRL (CSA 22.2 NO. 950 & UL 1950)

SMC2888W-S

17dBi INTEGRATED PANEL

FREQUENCY RANGE

- 5.150 - 5.850 GHz

GAIN

- 17dBi

VSWR

- 1.8 : 1 max

POLARIZATION

- Linear, vertical / horizontal

HPBW

- Horizontal 20°
- Vertical 22°

FRONT TO BACK RATIO

- >25db

POWER HANDLING

- 10 W (cw)

IMPEDANCE

- 50 Ohm

WARRANTY

- Limited lifetime

Contact

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