

CEN-WAP-ABG-1G

Wall Mount 802.11a/b/g Wireless Access Point

The CEN-WAP-ABG-1G Wireless Access Point enables Wi-Fi wireless communication for Crestron® WiFi touchpanels, control systems, computers, and other devices. With 802.11 a, b, and g support, easy setup, flush-mount installation, and comprehensive security and management capabilities, the CEN-WAP-ABG-1G delivers an ideal wireless access point solution for any application.

Professional Installation

The CEN-WAP-ABG-1G mounts conveniently in a standard 1-gang plaster ring or wall box for a clean, professional installation. Its matte white finish matches perfectly with popular off-the-shelf faceplates. Rack mounting is also possible using a third-party rackmount panel.^[1]

Single-Wire Hookup

PoE (Power-over-Ethernet) powers the CEN-WAP-ABG-1G right through the LAN wiring, eliminating the need for a separate wall-wart power supply. A PoE Injector (PWE-4803RU^[2]) simply connects inline with the CAT5 cable, allowing for installation at a convenient location up to 100 m (328 ft) away from the wireless access point. Or, using a Crestron PoE switch (CEN-SW-POE-5 or CEN-SWPOE-24^[2]), multiple access points can be powered from a single centralized location, simplifying design and wiring.

No Configuration Required

Using the CEN-WAP-ABG-1G, a secure WiFi touchpanel connection can be made quickly and easily right out of the box. Each wireless access point ships with a unique network name and network key printed on a removable sticker right on the front of the unit. Entering this information into the touchpanel is all that's required to complete the connection. Every network name and key are unique so multiple access points can be installed in the same vicinity without causing any connection problems.

Web-Browser Management

For applications that require a more custom configuration, the CEN-WAP-ABG-1G features built-in browser-based management tools. From any Web browser, the easy setup wizard lets you simply select the scenario, such as a standalone network or high-security environment, and applies the necessary configuration settings for you. Step-by-step instructions are provided for connecting any Crestron WiFi touchpanel to the network, with a display list included showing the status of all associated touchpanels and other wireless clients. Beyond the wizard, there are more comprehensive configuration and security settings available for advanced users and system administrators.

Security

The CEN-WAP-ABG-1G supports up to 152-bit WEP encryption as well as the more advanced WPA and WPA2 authentication and encryption methods for a safe, secure wireless network in the home or office.

DHCP Server

The CEN-WAP-ABG-1G can assign IP addresses automatically to touchpanels and other client devices using DHCP (Dynamic Host Configuration Protocol).

MAC Address Filtering

Unauthorized devices can be prevented from joining the wireless network, maximizing bandwidth for control and streaming AV signals to support only the touchpanels, computers, and other devices that you specify.



Event Logging

To assist in troubleshooting, the CEN-WAP-ABG-1G keeps a history of the last 500 client connections, disconnections, and failure events, and includes helpful details such as the reason for a disconnect or failure.

Bridge Mode

This useful feature allows a CEN-WAP-ABG-1G to be used to add Wi-Fi wireless connectivity to any device with an Ethernet port, or to extend a LAN via a wireless link wherever a CAT5 wire can't be run.

Ethernet Pass-thru

An Ethernet port is available on the front of the CEN-WAP-ABG-1G, providing a convenient LAN connection for computers and touchpanels. This port can be disabled via software if not required.

> *Crestron Wi-Fi wireless access point*

> *Supports 802.11a, 802.11b, and 802.11g protocols*

> *Attractive flush wall-mount design*

> *One-wire hookup using Power-over-Ethernet*

> *Enables easy touchpanel connection in seconds*

> *Web-browser based configuration and management*

> *WEP, WPA and WPA2 with TKIP & AES security*

> *Built-in DHCP server*

> *Onboard event logging*

> *SNMP and uPnP configuration and management*

> *Bridge mode for wireless LAN-to-LAN capability*

CEN-WAP-ABG-1G Wall Mount 802.11a/b/g Wireless Access Point

- > Ethernet control system interface
- > Front panel LAN pass-thru port
- > Antenna extendable using optional ANT-EXT

SPECIFICATIONS

Wireless

Transceiver: IEEE 802.11a/b/g Wi-Fi (5.8 or 2.4 GHz 2-way RF); 64, 128, & 152-bit WEP encryption; WPA & WAP2 with TKIP & AES

Transmit Power: Up to 19 dBm

Ethernet

10BaseT/100BaseTX, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, DHCP client and server, SNMP, IEEE 802.3u & 802.3af compliant

Controls and LED Indicators

LAN: (1) Green LED, indicates wired Ethernet activity and link status

Wi-Fi: (1) Green LED, indicates Wi-Fi activity and connection status

Reset: (1) Recessed miniature pushbutton for hardware reset

Connectors - Front Panel

Antenna: (1) Connection for supplied antenna

Network Pass-thru: (1) 8-wire RJ45, female, with 2 LED indicators;

10BaseT/100BaseTX Ethernet port, defeatable;

Green LED indicates link status and activity;

Amber LED indicates 100BaseT link status

Connectors - Rear Panel

NETWORK PoE: (1) 8-wire RJ45, female;

10BaseT/100BaseTX Ethernet port, 802.3af Power over Ethernet compliant;

Connects to LAN via a 802.3af compliant PoE power source

Power Requirements

Power over Ethernet: IEEE 802.3af Class 1 PoE Powered Device

Enclosure

Injection-molded plastic, white matte finish, 1-gang mountable in a standard plaster ring (recommended) or electrical box (2.5 inch deep minimum); requires decorator style faceplate (not included)

Environmental

Temperature: 32° to 104°F (0° to 40°C)

Humidity: 10% to 90% RH (non-condensing)

Heat Dissipation: 11 BTU/Hr

Dimensions

(Without antenna)

Height: 4.14 in (106 mm)

Width: 1.74 in (44 mm)

Depth: 2.87 in (73 mm)

Weight

4.7 oz (133 g)

Available Models

CEN-WAP-ABG-1G: Wall Mount 802.11a/b/g Wireless Access Point

CEN-WAP-ABG-POE-PWE: Wall Mount 802.11a/b/g Wireless Access Point w/ PoE Injector

CEN-WAP-POE-PAK: Wall Mount 802.11a/b/g Wireless Access Point w/5-Port PoE Switch

Included Accessories

PWE-4803RU PoE Injector [Included Quantity for CEN-WAP-ABG-POE-PWE: 1]

CEN-SW-POE-5 5-Port PoE Switch [Included Quantity for CEN-WAP-POE-PAK: 1]

Available Accessories

ANT-EXT-5: 5 ft Antenna Extender

ANT-EXT-10: 10 ft Antenna Extender

PWE-4803RU: PoE Injector

CEN-SW-POE-5: 5-Port PoE Switch

CEN-SWPOE-24: 24-Port Managed PoE Switch

Notes:

1. Middle Atlantic HBL1-722243 or equivalent rack mount panel recommended. Note unit dimensions when specifying any other rack mount kit.

2. PWE-4803RU included with CEN-WAP-ABG-POE-PWE kit, or sold separately. CEN-SW-POE-5 included with CEN-WAP-POE-PAK kit, or sold separately. CEN-SWPOE-24 sold separately.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

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