

CEN-WAP-ABG-CM

Ceiling Mount 802.11 a/b/g Wireless Access Point

- > Crestron Wi-Fi wireless access point
- > Supports 802.11a, 802.11b, and 802.11g protocols
- > Low-profile ceiling mount design
- > One-wire hookup using Power over Ethernet
- > Enables easy touch screen 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
- > Ethernet control system interface

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

Professional Installation

The CEN-WAP-ABG-CM mounts into a flat ceiling surface using a standard 1-gang plaster ring or wall box (not provided), protruding just 3/4" from the surface for a clean, professional installation. Its white color provides a discreet appearance when installed on a typical white ceiling, or its cover can be removed and painted to blend into any background.

Single-Wire Hookup

PoE (Power over Ethernet) powers the CEN-WAP-ABG-CM right through the LAN wiring, eliminating the need for a separate wallwart power supply. A PoE Injector ([PWE-4803RU](#)⁽¹⁾) simply connects inline with the CAT5 cable, allowing for installation at a convenient location up to 328 ft (100 m) away from the wireless access point. Or, using a Crestron PoE switch ([CEN-SW-POE-5](#), [CEN-SWPOE-16](#), or [CEN-SWPOE-24](#)⁽¹⁾), multiple access points can be powered from a single centralized location, simplifying design and wiring.

No Configuration Required

Using the CEN-WAP-ABG-CM, a secure Wi-Fi touch screen 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 touch screen 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-CM 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 Wi-Fi touch screen to the network, with a display list included showing the status of all associated touch screens 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-CM 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-CM can assign IP addresses automatically to touch screens 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 touch screens, computers, and other devices that you specify.

Event Logging

To assist in troubleshooting, the CEN-WAP-ABG-CM 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-CM 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.

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

10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP client and server, SNMP, IEEE 802.3af compliant

Controls & 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 - Rear Panel

NETWORK PoE: (1) 8-wire RJ45, female; 10Base-T/100Base-TX Ethernet port, Power over Ethernet compliant; Connects to LAN via a 802.3af compliant PoE power source

Power Requirements

Power over Ethernet: IEEE 802.3af Class 0 PoE Powered Device

Construction

Chassis: Plastic, paintable white textured finish

Mounting: Mounts to a ceiling in a 1-gang plaster ring or electrical box (2 inch deep minimum)

Environmental

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

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

Heat Dissipation: 11 BTU/Hr

Dimensions

Height: 2.54 in (65 mm)

Diameter: 4.73 in (120 mm)

Weight

6.0 oz (168 g)

MODELS & ACCESSORIES

Available Models

CEN-WAP-ABG-CM: Ceiling Mount 802.11a/b/g Wireless Access Point

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

Included Accessories

PWE-4803RU: PoE Injector [Qty. 1 included with CEN-WAP-ABG-POE-PWE-CM]

Available Accessories

PWE-4803RU: PoE Injector

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

CEN-SWPOE-16: 16-Port Managed PoE Switch

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

Notes:

1. **PWE-4803RU** included with CEN-WAP-ABG-POE-PWE-CM kit, or sold separately. **CEN-SW-POE-5**, **CEN-SWPOE-16**, and **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.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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