Cambium Networks™

cnPilot e430W Indoor
802.11ac Wave2 Dual Band Wall Plate Wi-Fi Access Point

Quick Start Guide

cnMaestro READY

Model: cnPilot e430W Indoor

Introduction

The guide provides a quick installation process.

Package Contents

e430W Access Point

Single Gang Wall Bracket

Ethernet Jumper Cable

Philips Head Screw
Size: M3.5 x 25mm
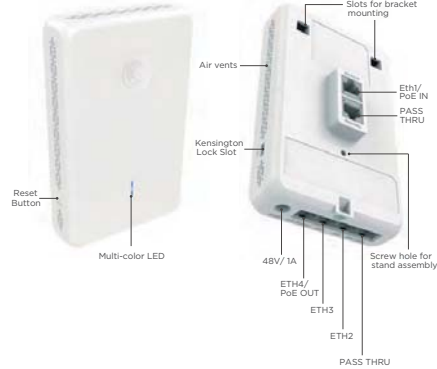Quantity: 4

Torx Screw
Size: M3 x 6mm
Quantity: 2

Tools Required
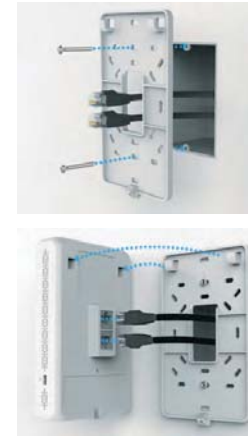
• Philips Head Screwdriver
• Torx Security Screwdriver

Philips Drive Pan Head Screw
Size: M3 x 6mm
Quantity: 2

Product Overview

- Slots for bracket mounting
- Air vents
- Eth1/PoE IN
- PASS THRU
- Kensington Lock Slot
- Reset Button
- Multi-color LED
- 48V/ 1A
- ETH4/ PoE OUT
- ETH3
- ETH2
- PASS THRU
- Screw hole for stand assembly

Single Gang Mounting

1. Remove single-gang box cover.

2. Place Cambium single-gang wall bracket on the gang box and secure with at least 2 screws.

3. Connect Ethernet cable to the upper RJ-45 port labeled Eth1/PoE at the rear side of e430W to provide connectivity. Use the other RJ-45 port labeled PASS-Through for any additional cable that might need to pass through e430W.

4. Align the two slots at rear side of the e430W with two hooks on the bracket.

Single Gang Mounting

5. Secure e430W to the bracket with a screw at the bottom edge of e430W using standard Torx security screw or standard Philips head screw.

Dual Gang Mounting

1. Remove dual-gang box cover.

2. Place Cambium dual-gang wall bracket on the gang box and secure with at least two screws.

3. Slide the plastic cover over the exposed portion next to the mounted e430W.

Dual Gang Mounting

4. Connect Ethernet cable to the upper RJ-45 port labeled Eth1/PoE at the rear side of e430W to provide connectivity. Use the other RJ-45 port labeled Pass-thru for any additional cable that might need to pass through e430W.

5. Align the two slots at rear side of the e430W with two hooks on the bracket.

6. Secure e430W to the bracket with a screw at the bottom edge of e430W using standard Philips head or Torx security screwdriver.

General Wall Mounting

1. Choose location on the wall to mount the bracket using the four mounting screws and anchors (if needed).

2. Connect the short Ethernet jumper cable between the two RJ-45 connections on the rear side of e430W.

3. Mount e430W into the Generic Wall bracket by aligning the hooks.

4. Secure e430W to the bracket using Torx (or standard) screw on the lower edge of e430W.

5. Power e430W either with a 48Vdc/1A power adapter or using the PASS-THRU port at the bottom edge of the device using Ethernet power.
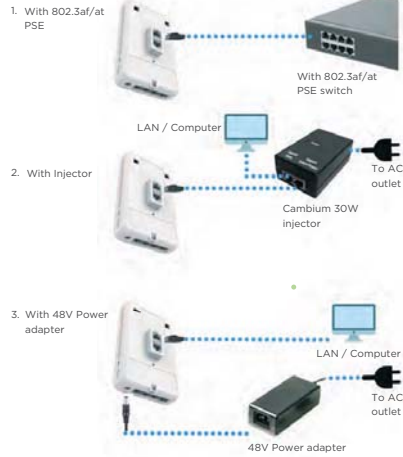.

Desktop Mounting

1. Connect the short Ethernet jumper cable between the two RJ-45 connections at the rear side of e430W.

2. Insert the e430W into the desk stand plastic jumper cable cover.

3. Secure the e430W and plastic jumper cable cover to the metal stand by aligning the screw holes and inserting Torx screw.

4. Power e430W either with a 48Vdc/1A power adapter or using the PASS-THRU port at the bottom edge of the device.

Cambium Networks Community Forum

Powering Up

1. With 802.3af/at PSE

With 802.3af/at PSE switch

LAN / Computer

2. With Injector

Cambium 30W injector

To AC outlet

3. With 48V Power adapter

LAN / Computer

To AC outlet

48V Power adapter

Configure Management PC

1. Select Properties for the Ethernet port. In Windows it is found in Control Panel > Network and Internet > Network Connections > Local Area Connection.

2. IP Address Configuration:
Default IP address is received via DHCP.
cnPilot e430W will use a default static IP address of 192.168.0.1, If

3. Default Login information
   - Username: admin

Management Protocols enabled by default –http or https (webpage management interface access), SSH (CLI management interface access).

AP Management

The cnPilot e430W Access Point supports multiple modes of management:

Standalone: The Access Point can be managed directly from its GUI by selecting the 'Configure' tab on the menu, and setting up a wireless LAN.

Controller : The Access Point can be onboarded to cnMaestro network controller system, either on-premises or the cloud version at https://cloud.cambiumnetworks.com.

For management from cloud please ensure the AP has connectivity to the internet. Connectivity can be verified using tools such as ping from the 'Troubleshooting' tab of the Access Point GUI. Connection status can be monitored from the AP dashboard.

Hardware Overview

LED Color	Amber	Green	Blue
Status Indicator	Access Point is powering up and Intitializing	Access Point is in service.	Access Point is managed with cnMaestro or autopilot.

Reset - To restart, press and hold Reset.
To restore to factory default settings, press and hold Reset for more than 10 seconds.

Eth1/ PoE IN - Gigabit Ethernet port used to connect the power. It should be connected to the LAN and DHCP server.

Eth2/ Eth3 - Spare gigabit Ethernet ports for connecting additional network devices.

Pass Thru - Are electrically connected internally so that in-wall wired non-Ethernet connectivity to a device in the room can be connected easily through e430W port on the back to the corresponding pass thru port on the bottom edge of the AP. If desired, the Eth1/PoE IN port can be jumpered with a short Ethernet cable and the Pass Thru port on the bottom edge can be used as the main LAN/PoE IN port.

Hardware Overview

Eth1/ PoE IN

PASS THRU

Kensington Lock Slot

Screw hole for stand assembly

Reset Button

PASS THRU

ETH2

ETH3

48V/ 1A

ETH4/ PoE OUT

Ethh4/ PoE OUT - Provides DC power to a secondary device and is 802.3af compliant. It detects the device power and connectivity needs dynamically. This port can also be used as a standard Gigabit networking data only port.

DC Power - e430W can be powered with a 48V/1A power adapter as an alternate to PoE. The power jack is located on the bottom edge of the device next to the Eth4/PoE OUT LAN port.

Kensington Lock Slot - The slot on the side of e430W that can be used to secure the unit to deter theft with a Kensington Lock device.

Specifications

Model: cnPilot e430W Indoor	
Product Dimension	145 x 90 x 30 mm / 5.71 x 3.54 x 1.18 inch
Product Weight	0.544 lbs. (247 grams)
Operating Frequency 2.4 GHz / 5 GHz / Bluetooth	2412-2462 MHz / 5180-5240 MHz; 5745-5825 MHz / 2402-2480 MHz
Networking Interface	4 x RJ-45 10/100/1000 Mbps Ethernet and RJ-45 Pass through ports
Antenna Gain	Wi-Fi 2.4/5G 2.98dBi/4.05dBi Bluetooth 2.79dBi
Max Power Consumption	12.55W (AP Only) / 25.5W (AP + 12.95W Auxiliary Device)
Max TX Power	Wi-Fi 2.4/5G 23dBm/21dBm max power Bluetooth + 7dBm
Power Supply	L.P.S 42.5-57Vdc/0.6A Gigabit Passive PoE injector, 802.3af/at PSE, 48Vdc/1A Power adapter
Antenna	5 Omnidirectional Internal PIFA
Wi-Fi Standards	802.11a/b/g/n/ac Wave 2
Bluetooth Standards	V 4.0
Wireless Security	WPA2 Pre-shared keys, WPA2 Enterprise
Operating Modes	Wireless Client Connectivity, Mesh
Mounting	single-gang (5G)/dual-gang (DG), Desktop, Wall
Operating Temperature	0° to 45°with PoE out disabled
Operating Humidity	5 - 95% Noncondensing
Certification	FCC, IC, CE, UL / FCC ID: Z8H89FT0039 / IC ID: 109W-0039

Safety Notice

Warning:
To prevent loss of life or physical injury, observe the following safety guidelines. In no event shall Cambium Networks be liable for any injury or damage caused during the installation of e430W platform. Ensure that only qualified personnel install. Only use attachments/accessories specified by the manufacturer.

Electrical Safety Information

1. Compliance with manufacturer's label for voltage, frequency, and current requirements. Connecting to a different power source than those specified may result in improper operation, damage to equipment or pose a fire hazard if the limitations are not followed.

2. There are no serviceable parts inside this equipment. Service should be provided only by a qualified service technician.

3. This equipment is provided with a detachable power cord which has an integral safety ground wire intended for connection to a grounded safety outlet.

   a. Do not substitute the power cord with one that is not the provided approved type. Never use an adapter plug to connect to a 2-wire outlet as this will defeat the continuity of the grounding wire.

   b. The equipment requires the use of the ground wire as a part of the safety certification, modification or misuse can provide a shock hazard that can result in serious injury or death.

   c. Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment.

   d. Protective earthing is provided by Listed AC adapter. Building installation shall provide appropriate short-circuit backup protection.

   e. Protective bonding must be installed in accordance with local national wiring rules and regulations.

4. Be aware that the unit surfaces can become very hot to the touch so do not handle the device when it is running for long periods of time. Turn off power to the device first for a few minutes and then handle the unit carefully.

FCC Compliance

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions.
1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

For product available in the USA/Canada market, only channel 1-11 can be operated. Selection of other channels is not possible.
This device is restricted for indoor use.
IMPORTANT NOTE:
FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IC Statement:
This device complies with Industry Canada license–exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC Compliance

For product available in the USA/Canada market, only channel 1-11 can be operated. Selection of other channels is not possible.
Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.
les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une
utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

For indoor use only.
Pour une utilisation en intérieur uniquement.

IMPORTANT NOTE:
IC Radiation Exposure Statement:
This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.
Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

This radio transmitter has been approved by FCC to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Antenna Information: Five single-band antenna, Gain 2.98/4.05dBi

RoHS/WEEE Compliance

Caring for the Environment: RoHS/WEEE

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

CE Marking

CE marking on this product represents the product is in compliance with all directives that are applicable to it.

Online Resources

User Guide and software downloads:
https://support.cambiumnetworks.com/files/e430W/

Support:
http://www.cambiumnetworks.com/support/

Contact us:
http://www.cambiumnetworks.com/support/contact-support/