

## cnPilot e502S

802.11ac WLAN 30° Sector Access Point IP67 Industrial Grade Gigabit Wi-Fi

Quick Start Guide



## Introduction

This guide provides quick installation steps for cnPilot e502S Access Points (APs).

### **Package Contents**



ounting bracket Radio holder



e502S Access Poin

Cable gland Wall mounting kit M12 x 60 Bolt M12 N (Qty. 4)

### **Tools Required**

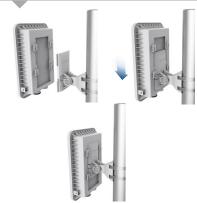
Phillips screwdriver
 Flat head screwdriver

# **STEP** 1 (Pole Mount) **STEP** 2 (Pole Mount)



Insert hose clamps through pole mounting bracket and clamp to pole by applying 3.0 Nm torque.

# **STEP** 3 (Pole Mount)



Align the radio chassis with the guide rails of radio holder and slide it downwards until it clicks into place.

## STEP 4

### Cable gland components

cn**Maestro** 



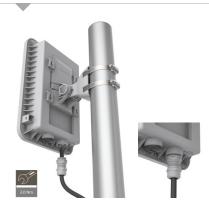
Cable gland assembly sequence





Assemble cap and body. 6. Assembled cable

# STEP 5 (Pole Mount)



Insert RJ45 to radio housing and the lock cable gland to radio housing with 1.5Nm to 2Nm torque.

## **STEP** 6 (Radio alignment)

Assemble the radio holder to the pole mounting bracket

and secure it with M8 nuts by applying 3.0 Nm torque.



This antenna is normally mounted on a mast and is vertically polarized.

. Warning:

Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in relevant rules. The violation of the rule could lead to serious federal penalty.

The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

The antenna must be installed completely perpendicular to the horizon.

## **Wall Mounting**



Drill 4 holes of Ø6mm (Ø0.25"Inch) on wall. Press fit plastic anchor and assembly fastener. Leave 5mm to 6mm gap between wall and fastener head.

Use the four mounting slots given on the back of the radio to mount to the wall.



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## **Powering Up**

- Connect the Ethernet cable from Eth1/PoE-IN of e502s to the PoE port of Gigabit Data + Power
- Connect an Ethernet cable from your LAN or Computer to the Gigabit Data port of the PoE adapter.



Connect the Power Cord to the adapter, and then plug the Power





Once powered ON -- Power LED should illuminate continuously on PoF Adapter

\*\*Shielded Category 5 (or above) cabling should be used for all through the AC ground of the PoE.

# **Configure Management PC**

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



2. IP Address Configuration Default IP address received via DHCP. cn Pilot e502S will use a default static IP address of 192.168.0.1, If there is no DHCP server



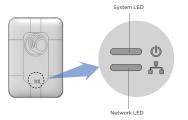
- 3. Default Login information
  - Username: admin

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

## **Quick Link Setup**

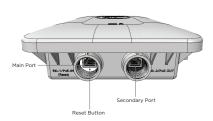
- Using a web browser, navigate to 169.254.1.1 and login with username: admin and password: admin
- Navigate to the Quick Start menu and click the 'Go To Next Page'.
- Configure your Region and Country of operation. Click the 'Go To Next Page
- Configure the Carrier Frequency. Click the 'Go To Next Page'.
- Select the Synchronization source. Click the 'Go To Next Page'.
- Configuration IP Address, a Subnet Mask, and a Gateway IP Address OR DHCP state to Enabled to have the IP address, subnet mask, and gateway IP address automatically configured by a DHCP server. Click the 'Go To Next Page'.
- Click the 'Save Changes' button. Click the 'Reboot' button.

### **Hardware Overview**



<u> </u>	System LED colour is "Amber" E501S is Powering up (Initializing)
<u></u> ტ	System LED colour is "Green" E501S is fully powered
	Network LED colour is "Amber" E501S is not connected to cnMaestro
- 4	Network LED colour is "Green" E501S is connected to cnMaestro

### Hardware Overview



### Secondary Port

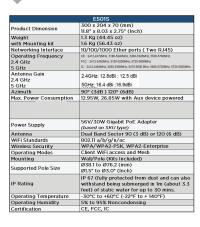
The Secondary port is a Gigabit Ethernet port used for bridging

The Reset button serves two functions for e502S

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

The Main port is a Gigabit Ethernet port used to connect the power and should be connected to the LAN and DHCP server

## **Specifications**



# Safety Notice M



### 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 e502\$ 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.
- This equipment is provided with a detachable power cord which has an integral safety ground wire intended for connection to a grounded safety outlet.
  - 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.
  - 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

## **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

### FCC Radiation Exposure Statement

This equipment complies with ECC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 26 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:

   Received to relocate the receiving antenax.

   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.

   Connect the dealer or an expenience disador? Verbrication for help.

Union to asser or an expensed reason is recursion for nep.

This radio transmitter (281489710037) has been approved by FCC to operate with the antenna types listed below with the maximum permissible gain and required antenna impediance 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: Dual-band dual-polarized antenna For product available in the USA/Canada market, only channel 1–11 can be operated. Selection of other channels is not possible. Professional installations in equired. Other antenna or transmitter. Under antenna or transmitter.



## **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. Alert Sign (!) Follows CE Marking

Alert sign must be indicated if a restriction on use applied to the product and it must follow the CE marking.



# **Online Resources**

User Guide and software downloads:

https://support.cambiumnetworks.com/files/e500/

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

## Contact us:

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

## IC Compliance

This device complies with inclusity Careads Exempt ACS standards), Operation is subject to the following beautified: (in the following beautified in the following beautified in the following beautified in the following beautified in the following beautified accept any interference, including interference that may cause undesired operation of the device. Leptical part of inclusing Caread applicables aux appealers and occurring the following Caread and Caread acceptance of the following Caread acceptanc

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.

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

environment. This equipment should be installed and operative with minimum disastice 20 cm between the radiator & your body. Cet equipment est conforme aux limites d'exposition aux rayonnements IC établies pour un environment no contrôté. Cet dequipment doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.