





Quick Installation Guide  

TEW-455APBO
2.01

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Package Contents

- TEW-455APB
- CD-ROM (User's Guide)
- Multi-Language Quick Installation Guide
- PoE Injector & Power Cord
- Waterproof Kit*
- Grounding wire

System Requirements

- Web Browser: Internet Explorer (6.0 or above)
- A computer with a network adapter properly installed.
- A network Switch or Router with an available network LAN port.
- 2 x RJ-45 network cable.
- Phillips screwdriver
- External Antenna with N-type Female connector (Optional)
- TEW-ASAL1 (Optional)

Note: The TEW-455APBO does not support IEEE 802.3af. You must use the special Power over Ethernet injector that is supplied with the TEW-455APBO.

*Check package contents for waterproof kit: (Ethernet Cable is not included)



Sealing Nut



Claw



Seal



Cable Gland

Connecting the Grounding Wire

1. Remove the screw and washer from the grounding hole using a screwdriver.

2. Align one end of the grounding wire over the hole. Then connect the screw and washer back in.

3. Connect the green grounding wire to a grounding object. e.g. Earth Driven rod, Grounded Electrical System, Building Frame.



Connecting the Ethernet Cable

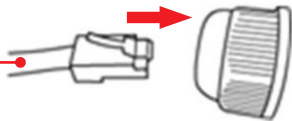
1. Unscrew the sealing nut from the main body.

2. Separate the rubber seal from the claw.

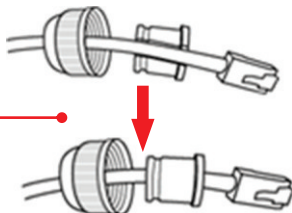
3. Verify that you have the following parts: Cable Gland, Seal, Claw, Sealing Nut.



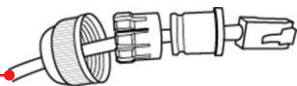
4. Insert one end of an Ethernet cable into the sealing nut .



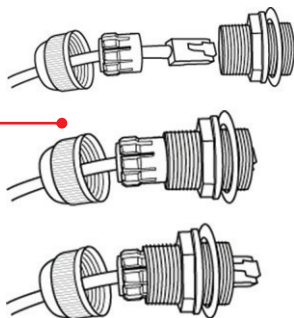
5. Insert the Ethernet cable into the seal.



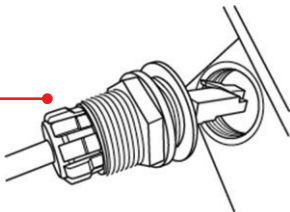
6. Insert the seal into the claw.



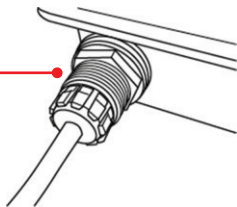
7. Insert the seal/rubber claw into the Cable Gland.



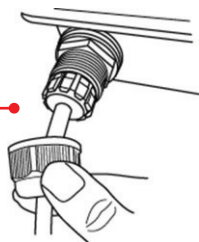
8. Connect the Ethernet Cable to the **PoE** port on the rear of the TEW-455APBO.



- Using your hand, screw the main body counter clockwise to secure it to the TEW-455APBO.



- Using your hand, screw the seal nut counter clockwise to secure it to the main body.



Powering the TEW-455APBO

- Connect one end of an Ethernet cable into the TEW-455APBO (See Connecting the Ethernet Cable).

- Connect the opposite end of the Ethernet cable to the **P+DATA OUT** port on the Power over Ethernet Injector.

- Connect one end of another Ethernet cable to the **DATA IN** port on the Power over Ethernet Injector.



4. Connect the opposite end of the Ethernet cable to a LAN port on your network.



5. Connect the power cord into the Power over Ethernet Injector. Then connect the power cord into a power outlet.

6. Verify that the following panel lights are on:
LAN, WLAN and PWR.

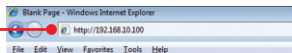


3. Configure the Access Point

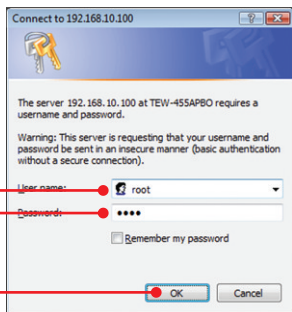
Note:

1. It is recommended that you configure the Access Point from a wired computer.
Before the Access Point can be configured, a Static IP address must be assigned to your computer's network adapter in the subnet of 192.168.10.x. Since the Access Point's default IP address is 192.168.10.100, make sure no other network devices are assigned an IP address of 192.168.10.100. (Refer to Troubleshooting section on how to configure TCP/IP settings on your PC.)
2. Disable any anti-virus and firewall programs before configuring the access point.

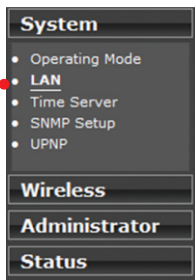
1. Open your web browser, type the IP address of Access Point in the Address bar, and then press **Enter**. The default IP address is 192.168.10.100.



2. Enter the User name and Password, and then click **OK**. By default:
User Name: **root**
Password: **root**



3. Click **System** -> **LAN**.



4. Configure the LAN settings to match your network settings and then click **Save**.

LAN Setup

Ethernet Connection Type

Mode: Static IP Dynamic IP

Static IP

IP Address: 192.168.10.100

IP Netmask: 255.255.255.0

IP Gateway: 192.168.10.1

DNS

DNS: No Default DNS Server Specify DNS Server IP

Primary:

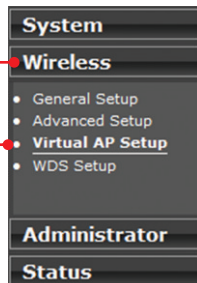
Secondary:

802.1d Spanning Tree

STP: Enable Disable

Save

5. Click **Wireless** -> **Virtual AP Setup**.



6. Select **Edit** for the desired **VAP**.

VAP	ESSID	Status	Security Type	MAC ACL	ACL Setup	VAP Edit
VAP0	TRENDnetHS000	Off	Disabled	Disable	Status	Edit
VAP1	TRENDnetHS001	Off	Disabled	Disable	Status	Edit
VAP2	TRENDnetHS002	Off	Disabled	Disable	Status	Edit
VAP3	TRENDnetHS003	Off	Disabled	Disable	Status	Edit
VAP4	TRENDnetHS004	Off	Disabled	Disable	Status	Edit
VAP5	TRENDnetHS005	Off	Disabled	Disable	Status	Edit
VAP6	TRENDnetHS006	Off	Disabled	Disable	Status	Edit
VAP7	TRENDnetHS007	Off	Disabled	Disable	Status	Edit

Note:

1. To protect your network from any unauthorized access it is recommended to enable wireless encryption.
2. The examples below are for WPA2-PSK. If you select WPA-PSK or WPA2-PSK, make sure your wireless adapters support WPA or WPA2. If your wireless adapters do not support WPA or WPA2, then select WEP.

7. Enter the desired ESSID and click **Enable** for **Enable VAP**.

Security

ESSID : TRENDnet45500

Enable VAP : Enable Disable

Hidden SSID : Enable Disable

Client Isolation : Enable Disable

WMM : Enable Disable

IAPP Support : Enable Disable

Maximum Clients : 32

VLAN ID : Enable Disable

Security Type : WPA2-PSK

8. Select the desired **Security Type**.

9. Select the Cipher Suite (Type). For WPA2-PSK, select **AES**.

WPA General

Cipher Suite : AES TKIP

Group Key Update Period : 600

Master Key Update Period : 63400

Key Type : ASCII HEX

Pre-shared Key : trendnet

Save

10. Enter a Pre-shared Key and then click **Save**. For WPA-PSK or WPA2-PSK, the Pre-Shared Key must be between 8 and 63 ASCII or 64 HEX characters. Make sure to copy down the encryption key.

11. Click **Reboot**.

Press "Reboot" to Enable New Setting.

12. Click Reboot.

You must be rebooted the system after changing settings. Rebooting the system will not delete any of your configuration settings. Click reboot button to reboot the system.



13. Wait 80 seconds while the Access Point reboots.

Please Wait

System will restart after 80 seconds...

Your Installation is complete

For detailed information regarding the **TEW-455APB0** configuration and advanced settings, please refer to the Troubleshooting section, User's Guide on the Utility CD-ROM, or TRENDnet's website at <http://www.trendnet.com>.

Register Your Product

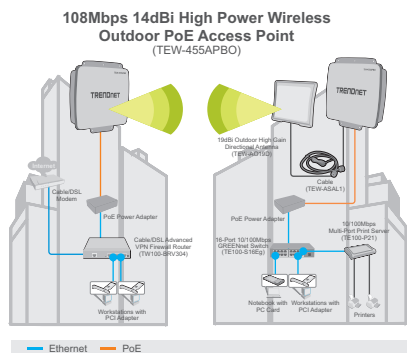
To ensure the highest level of customer service and support, please take a moment to register your product Online at: www.trendnet.com/register

Thank you for choosing TRENDnet

4. Configure for WDS Mode

Note:

1. WDS Mode requires at least 2 TEW-455APBO
2. Please install and test in a lab environment before mounting the TEW-455APBO.
3. After you set the TEW-455APBO to WDS mode, wireless clients will not be able to connect to the TEW-455APBO.

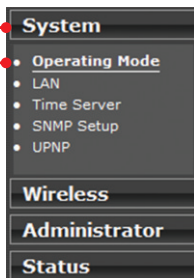


Setting Up the Main TEW-455APBO

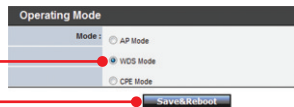
1. Copy down the 12 digit Mac ID (Address) of the Remote TEW-455APBOs. The Mac ID is on the side of the TEW-455APBO

2. Follows steps 1-4 and 11-13 in section 3
Configure the Access Point.

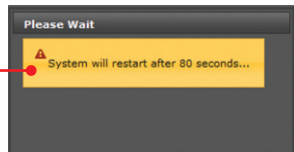
3. Click **System -> Operation Mode.**



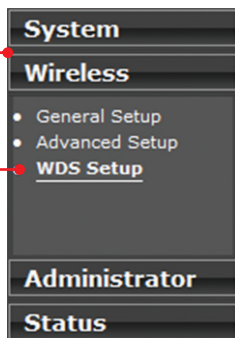
4. Select **WDS Mode** and then click **Save & Reboot**.



5. Wait 80 seconds while the Access Point reboots.



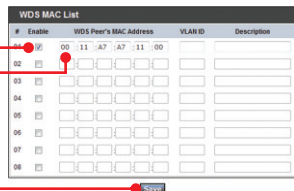
6. Click **Wireless** -> **WDS Setup**.



7. Select **Enable**, select **AES** for security type and enter an **AES Key**.



8. Click **Enable** and enter the remote TEW-455APBO's MAC address. Then click **Save**.



9. Click **Reboot**.

Press "Reboot" to Enable New Setting.

10. Click **Reboot**.

This must be reboot the system after changing settings. Rebooting the system will not delete any of your configuration settings. Click reboot button to reboot the system.

11. Wait 80 seconds while the Access Point reboots.

Please Wait
System will restart after 80 seconds...

12. Connect the main TEW-455APBO to the router on your LAN.

Setting Up the Remote TEW-455APBO

1. Copy down the 12 digit Mac ID (Address) of the Main TEW-455APBOs. The Mac ID is on the side of the TEW-455APBO.



2. Follows steps 1-4 and 11-13 in section 3 **Configure the Access Point**. Make sure you change the IP address of the Remote TEW-455APBO to be different from the main TEW-455APBO.

3. Repeat steps 3-11 in Setting Up the Main TEW-455APBO for the second TEW-455APBO.

4. Connect the Remote TEW-455APBO to a switch (e.g. TE100-S16Eg) in the remote location.



5. Connect a computer to a switch (e.g. TE100-S16Eg) in the remote location.



6. Make sure the top of TEW-455APBO is pointed directly at the remote TEW-455ABPO.



5. Mounting

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ESPAÑOL

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Wall Mounting

1. Align the mounting bracket with the holes on the bottom of the unit and secure it with the screws and washers provided.

2. Use the wall bracket as a template and mark the wall for the correct screw / fastener position.

3. Drill holes for the fastener plugs at the marked positions on the wall.

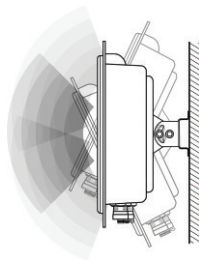
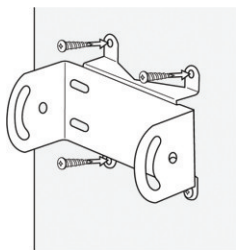
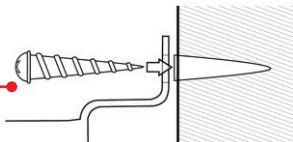
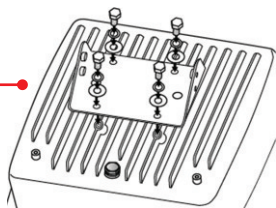
4. Insert fastener plugs into the drilled holes.

5. Use the provided wood screws to screw the outdoor unit/swivel mounting bracket to the fastener plugs to the wall.

6. Insert the mounting bracket into the wall mounting bracket and secure with the washers and screws provided.

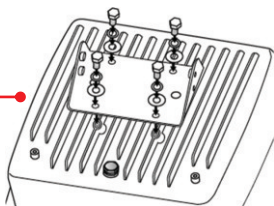
7. Adjust the orientation of the antenna as necessary.

8. Once the unit is positioned correctly, tighten all screws.

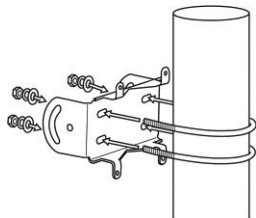


Pole Mounting

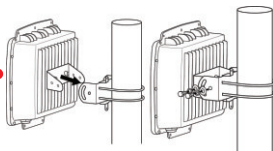
1. Align the mounting bracket with the holes on the bottom of the unit and secure it with the screws and washers provided.



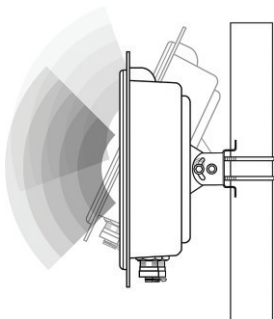
2. Slide the two provided u-clamps around the pole. Place the pole mounting bracket at the desired height and position.



3. Secure the mounting bracket to the pole mounting bracket using the nuts and washers provided.



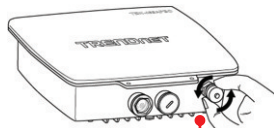
4. Adjust the orientation of the antenna as necessary.



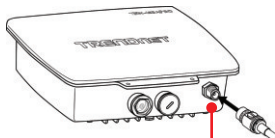
6. Connecting TRENDnet External Antenna

Note: Connecting a TRENDnet External Antenna to the TEW-455APBO requires the TEW-ASAL1.

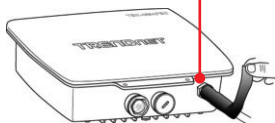
1. Remove the metal cap from the connector labeled **EXT**.



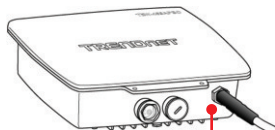
2. Screw one end of the TEW-ASAL1 to the EXT connector on the TEW-455APBO.



3. Connect the opposite end of the TEW-ASAL1 to an outdoor antenna.



4. Use weather-proof tape to wrap the connectors.



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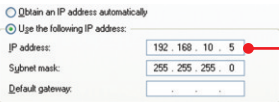
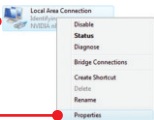
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How do I configure TCP/IP settings on my computer?

Windows Vista

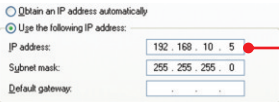
1. Go into the **Control Panel**, click **Network and Internet**, click **Network and Sharing Center**, click **Manage Network Connections** and then right-click the **Local Area Connection** icon and then click **Properties**.



2. Click **Internet Protocol Version 4(TCP/IPv4)** and then click **Properties**. Then click on **Use the following IP address**, and make sure you assign your network adapter an IP address in the subnet of 192.168.10.x.

Windows XP/2000

1. Go into the **Control Panel**, double-click the **Network Connections** icon and then right-click the **Local Area Connection** icon and then click **Properties**.



2. Click **Internet Protocol (TCP/IP)** and then click **Properties**. Then click on **Use the following IP address**, and make sure you assign your network adapter an IP address in the subnet of 192.168.10.x.

I am using a non-Windows based computer. How do I configure IP Address and Wireless settings on the Access Point?

1. Assign your computer a static IP Address of 192.168.10.x (where X is an available address from 1 to 254. Since the IP address of the TEW-455APB0 is 192.168.10.100, do not assign your computer a static IP address of 192.168.10.100.
2. Follow all the steps in Section 3 Configure the Access Point to configure the IP and Wireless settings on the Access Point.

I changed the password on the Access Point, but I can no longer login. What should I do?

Reset the unit using the following procedure.

1. Press on the reset button. The reset button is located next to the LEDs.
2. Wait 10 seconds, then let go of the reset button.

The default user name and password is root

I typed `http://192.168.10.100` in my Internet Browser's Address Bar, but an error message says "The page cannot be displayed." How can I get into the TEW-455APB0's Browser configuration page?

1. Check your hardware settings again by following the instructions in section 2.
2. Make sure the LAN, WLAN and PWR LEDs are lit.
3. Make sure the TCP/IP settings are configured properly.
4. Since the Access Point's default IP address is 192.168.10.100, make sure that no other network devices are assigned an IP address of 192.168.10.100.
5. The IP address may have changed. Reset the TEW-455APB0 to return all settings to factory default. To reset the TEW-455APB0, see the above troubleshooting question.

If my network's IP is different than the Access Point's range, what should I do?

You should still configure the Access Point first. After all the settings are applied, go to the Access Point's configuration page, click on IP settings and change the IP address of the Access Point to match your network's IP.

After I successfully configured the Access Point to match my network settings, I can not connect to my network using wireless computers.

If you have a DHCP server in your network, you need to go into TCP/IP settings again and re-select "Obtain an IP address automatically" to allow the PC to regain an IP address from your DHCP server.

All the settings are correct, but I can not make a wireless connection to the Access Point.

1. Double check that the WLAN light on the Access Point is lit.
2. Power cycle the Access Point. Disconnect the Ethernet cable that is connected to the P+DATA OUT port. Wait 15 seconds, then plug the power back in.
3. Contact the manufacturer of your Wireless Network Adapter. Make sure the Wireless Network Adapter is configured with the proper SSID. The default SSID of the Access Point is **TRENDnet455APB00**.

If you still encounter problems or have any questions regarding the **TEW-455APB0**, please contact TRENDnet's Technical Support Department.

Declaration of Conformity



Company Information:

Company Name:
TRENDware International, Inc.

Company Address:
20675 Manhattan Place
Torrance, CA 90501
USA

Product Information:

Product Description:
14dBi High Power Wireless Outdoor PoE Access Point

Model Number:
TEW-455APBO

Brand name:
TRENDnet



Technical Standards:

EN 300 328 V1.7.1: 10-2006
EN 301 489-1 V1.8.1: 04-2008
EN 301 489-17 V1.3.2: 04-2008
EN 62311: 2008
EN 60950-1: 2006

Declaration:

The product is herewith confirmed to comply with the requirements of Directive 1999/5/EC of the Council (European Parliament) on the radio and telecommunications terminal equipment.

I hereby declare that the products and devices mentioned above are consistent with the standards and provisions of the guidelines.

Sonny Su

Name (Full Name)

October 21, 2009

Date

Director of Technology

Position / Title

Legal Signature

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Please also go to (<http://www.gnu.org/licenses/gpl.txt>) or (<http://www.gnu.org/licenses/lgpl.txt>) for specific terms of each license.

The source codes are available for download from TRENDnet's web site (http://trendnet.com/downloads/list_gpl.asp) for at least three years from the product shipping date.

You could also request the source codes by contacting TRENDnet.

20675 Manhattan Place, Torrance, CA 90501, USA. Tel: +1-310-961-5500 Fax: +1-310-961-5511

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Les codes source sont disponibles au téléchargement sur le site Internet de TRENDnet web site (http://trendnet.com/downloads/list_gpl.asp) durant au moins 3 ans à partir de la date d'expédition du produit.

Vous pouvez également demander les codes source en contactant TRENDnet.

20675 Manhattan Place, Torrance, CA 90501, USA. Tel: +1-310-961-5500 Fax: +1-310-961-5511

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Operation is subject to the following two conditions:

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- (2) This device must accept any interference received. Including interference that may cause undesired operation.



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