

TRENDnet®



Quick Installation Guide

TEW-WLC100P (V1)

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1. Before You Start

Package Contents

- TEW-WLC100P PoE+ wireless LAN controller
- Quick Installation Guide
- CD-ROM (User's Guide)
- Power adapter (54V DC, 1.67A)
- Rack mount kit

Minimum Requirements

- Computer with an Ethernet port and web browser
- Network cables for computer connection, network connection, and wireless access points to controller
- Compatible wireless access point(s) (TRENDnet TEW-755AP, TEW-821DAP, or TEW-825DAP)

Optional Equipment

- EIA standard 19" rack

Access Point Compatibility

Before you proceed, please ensure you are using one of the access point models in the list and the firmware version of your access point has been upgraded accordingly to the versions indicated in the list below. You can download the access point firmware from <http://www.trendnet.com/support> which include instructions on how to upgrade the firmware.

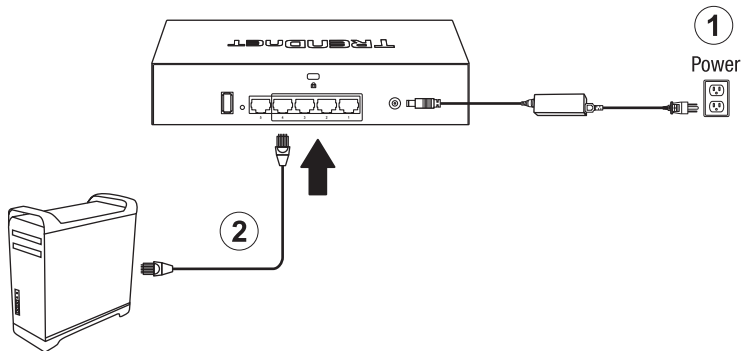
Before any access points are added to the wireless controller, make sure to reset the access points to factory default after completing the firmware upgrade. Access points must be in the factory default state when adding the access points to the controller. All access point configuration settings must be completed through the controller management interface.

Access Point Model	Description	Controller Compatible Firmware Version
TEW-755AP	N300 PoE Access Point	1.04 or above
TEW-821DAP	AC1200 Dual Band PoE Access Point	1.06 or above
TEW-825DAP	AC1750 Dual Band PoE Access Point	1.02 or above

Important Note: Make sure your existing network is using a DHCP server to distribute IP addresses to the access points. By default, TRENDnet access points listed below will obtain an IP address automatically through DHCP or otherwise default back to 192.168.10.100 / 255.255.255.0 if a DHCP server is not available on your network. Each access point must be assigned a unique IP address on the same network. The wireless controller and access points must be connected to the same IP subnet on your network (e.g. 192.168.10.x / 255.255.255.0).

2. Initial Controller Setup

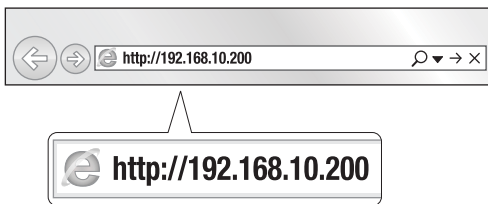
Note: Before connecting the wireless controller to the network and connecting other devices such as access points, follow the steps to set up your controller IP address settings and administrator password first.



3. Assign a static IP address to your computer's network adapter in the subnet of **192.168.10.x** (e.g. 192.168.10.25) and a subnet mask of **255.255.255.0**.

Note: For more information on assigning a static IP address to your computer's network adapter, please refer to item Q1 in the last section of the installation guide, Installation Tips and Troubleshooting.

4. Open your web browser, type the default IP address of the wireless controller in the address bar, and then press **Enter**. The default IP address is **192.168.10.200**.



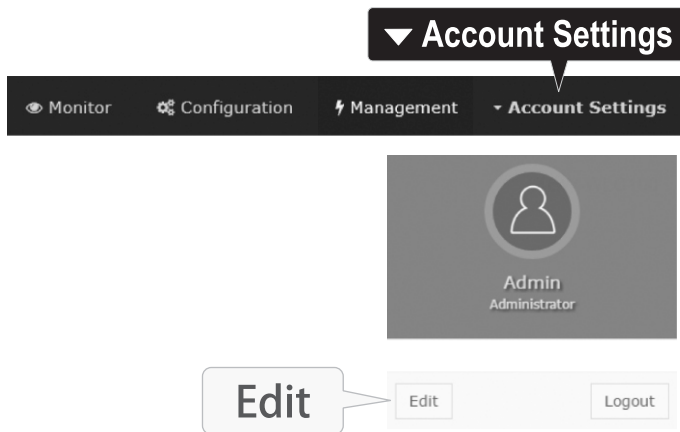
5. Enter the **User name** and **Password**, and then click **Login**. By default:

User Name: **admin**

Password: **admin**



6. To change the controller administrator password, click **Account Settings** and click **Edit**.



7. In the **New Password** and **Confirm Password** fields, enter the new administrator password and click **OK** to save the new password settings. You will be prompted immediately afterwards to login to the controller management page with the new password.

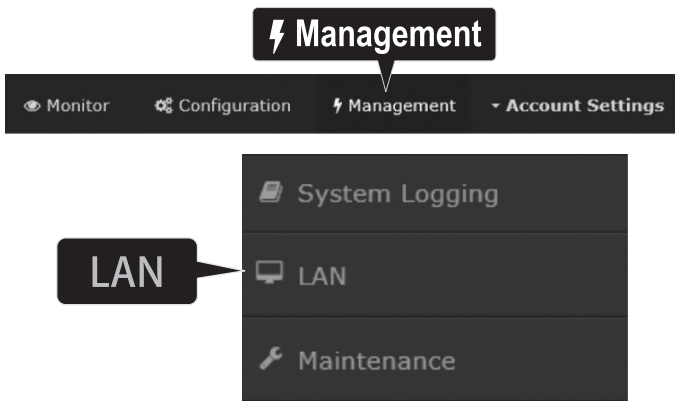
New Password

Confirm Password

OK Cancel

OK

8. Click **Management** and click on **LAN**.

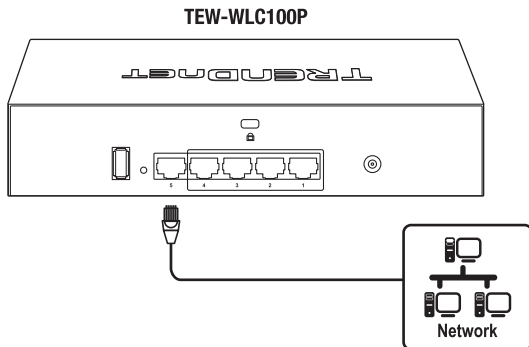


9. Configure the wireless controller IP address settings to match the requirements of your network and click **Apply**.

LAN Settings	
Network Settings	
IP Address	<input type="text" value="192.168.10.200"/>
Netmask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.10.1"/>
DNS1	<input type="text" value="192.168.10.1"/>
DNS2	<input type="text"/>
<input type="button" value="Apply"/>	

Apply

10. Using an Ethernet cable, connect the non-PoE Gigabit Ethernet port 5 located on the back of the wireless controller to your network (e.g. router, switch, etc.)



11. After you have configured the wireless controller administrator password and IP address settings accordingly, reconfigure your computer's network adapter back to the original settings to obtain IP address settings automatically using DHCP.

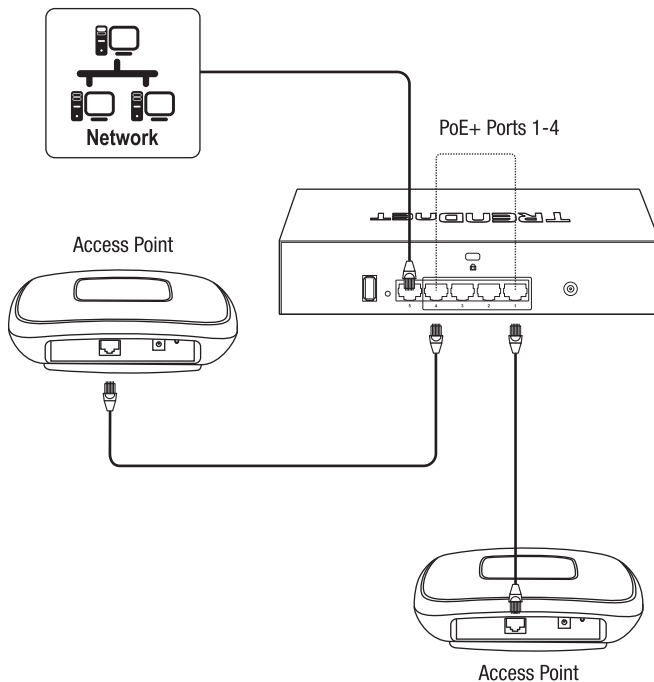
Note: For more information on reconfiguring your computer's network adapter to obtain IP address settings automatically using DHCP, please refer to item Q2 in the last section of the installation guide, Installation Tips and Troubleshooting.

3. Connect your wireless access points

Important Note: Please make sure your access points have met the requirements in Section 1.

1. Using an Ethernet cable, connect each wireless access point to PoE+ ports 1-4 (green) located on the back of your wireless controller.

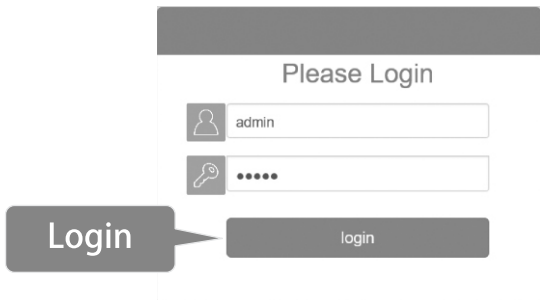
Note: If powering the access points using their power adapters, you can connect the access points directly to your network without a power over Ethernet (PoE) switch or injector. If powering the access point using power over Ethernet (PoE), a separate PoE injector (not included) or PoE/PoE+ switch (not included) is required to connect your access points directly to your network.



4. Initial Wireless Setup

1. Using your computer and web browser, access the wireless controller management page using the newly assigned IP address settings (configured in Section 2) and login.

Note: If the IP address settings were not changed in **Section 2**, the default IP address settings for the controller is are 192.168.10.200 / 255.255.255.0.



2. Click **Monitor** and click **Devices**.



3. The access points will be discovered automatically and appear in the Device List.

Note: If the access points do not appear, make sure the access points are powered by checking the physical LEDs and physical cable connections and refresh the page.

4. After the access points are discovered and appear in the Device List, under the Action column, click **Accept** on each access point to add them to the wireless controller.

Note: It may take up to 1 minute for each access point to be added to the wireless controller.

Device Name	Mac Address	Address	Wireless Group	Status	Client	DOWN	UP	History	Channel	Type	Action
TEW-821DAP	D8:EB:97:2F:C2:2D	192.168.10.20		NEW							Accept
TEW-821DAP	D8:EB:97:2F:D9:1D	192.168.10.30		NEW							Accept

5. Once the access points have been added to the wireless controller, the Status will change from NEW to RUN.

Device Name	Mac Address	Address	Wireless Group	Status	Client	DOWN	UP	History	Channel	Type	Action
TEW-821DAP	00:18:E7:95:92:45	192.168.10.26	1(2.4G)(1)(5G)	RUN	0	0B	0B	■		AP	Edit
TEW-821DAP	D8:EB:97:31:5A:31	192.168.10.25	1(2.4G)(1)(5G)	RUN	0	0B	0B	■		AP	Edit

6. Click **Configuration** and click **Wireless Groups/Profiles**.

The image shows a navigation menu with four options: Monitor, Configuration, Management, and Account Settings. The 'Configuration' option is selected. Below it, a sub-menu is displayed with five options: Sites, Wireless Groups/Profiles, Access Points, Captive Portal, and Client Blacklist. The 'Wireless Groups/Profiles' option is highlighted.

7. In the list below, click **Create** to create a new wireless profile.

Two buttons are shown: 'Create' with a pencil icon and 'Delete' with a trash can icon.

8. In the Edit Wireless Group window, enter the wireless network name/SSID for the wireless network. (e.g. TRENDnet-WiFi)

Note: The SSID is the wireless network name used to broadcast and be discovered by your wireless client devices to connect to your wireless network.

SSID	TRENDnet-WiFi
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9. For Roaming options, select **802.11k** and **OKC** wireless roaming protocols to ensure fast transition wireless connectivity for client devices when roaming between multiple access points.

Roaming	<input checked="" type="checkbox"/> 802.11k	<input type="checkbox"/> 802.11r	<input checked="" type="checkbox"/> OKC
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10. For **Authentication method**, select **WPA/WPA2-PSK**. For the Security Mode, select **WPA2-Personal**. For the WPA Cipher, select **AES** and enter the **Pre-Shared Key** required to connect to your wireless network. Click **OK**.

Note: The pre-shared key is the key/password (8-63 alphanumeric characters) client devices will be required to enter in order to connect to your wireless network.

Note: It may take up to 1 minute for configuration settings to be applied to the access points.

Authentication Method

None	WEP	WPA/WPA2-PSK	WPA/WPA2-Enterprise
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Security Mode: WPA2-Personal

WPA Cipher: AES

Pre-Shared Key: *****

Key Update Interval: 3600

11. The initial wireless settings are complete.

Note: The access points must be connected to the same IP subnet as your wireless controller. (e.g. 192.168.10.x / 255.255.255.0)

For detailed information regarding advanced settings, please refer to the User's Guide found on the included CD.

Installation Tips and Troubleshooting

Q1: How do I configure my computer's network adapter with a static IP address?

Note: Please note that although the following procedures are provided to follow for your operating system network adapter settings to be used as general guidelines, however, it is strongly recommended that you consult your computer or operating system manufacturer directly for assistance on the proper procedure for configuring network settings. If you are experiencing difficulties, please contact your computer or operating system manufacturer for assistance.

Windows 2000/XP/Vista/7/8/8.1/10

1. On your keyboard, press **Windows Logo + R** keys simultaneously to bring up the Run dialog box.
2. In the dialog box, type **ncpa.cpl** to bring up the Network Connections window.
3. Right-click the **Local Area Connection** or **Ethernet** icon, click **Properties**, and double-click **Internet Protocol Version 4 (TCP/IPv4)**.
4. Then click **Use the following IP address** and assign your network adapter a static IP address. See example static IP address settings below.
 - IP address: 192.168.10.25
 - Subnet mask: 255.255.255.0
5. Click **OK** on both TCP/IPv4 Properties and Local Area Connection Properties windows.

MAC OS X

1. From the **Apple** drop-down list, select **System Preferences**.
2. Click the **Network icon**.
3. From the **Location** drop-down list, select **Automatic**.
4. Select and view your Ethernet connection.
 - For MAC OS 10.4, from the **Show** drop-down list, select **Built-in Ethernet** and select the **TCP/IP** tab
 - For MAC OS 10.5 and above, in the left column, select **Ethernet**.
5. Configure TCP/IP to use a static IP.
 - From the **Configure IPv4** or **Configure** drop-down list, select **Manually** and assign your network adapter a static IP address. Then click the **Apply** or **Apply Now** button. See example static IP address settings below.
 - IP address: 192.168.10.25
 - Subnet mask: 255.255.255.0
6. You may be prompted to restart your computer to apply the new IP address settings.

Q2: I configured my computer's network adapter with a static IP address, how do I reconfigure my computer's network adapter to default settings and obtain an IP address automatically using DHCP?

Note: Please note that although the following procedures are provided to follow for your operating system network adapter settings to be used as general guidelines, however, it is strongly recommended that you consult your computer or operating system manufacturer directly for assistance on the proper procedure for configuring network settings. If you are experiencing difficulties, please contact your computer or operating system manufacturer for assistance.

Windows 2000/XP/Vista/7/8/8.1/10

1. On your keyboard, press **Windows Logo + R** keys simultaneously to bring up the Run dialog box.
2. In the dialog box, type **ncpa.cpl** to bring up the Network Connections window.
3. Right-click the **Local Area Connection** or **Ethernet** icon, click **Properties**, and double-click **Internet Protocol Version 4 (TCP/IPv4)**.
4. Then click **Obtain an IP address automatically** and **Obtain DNS server address automatically**.
5. Click **OK** on both TCP/IPv4 Properties and Local Area Connection Properties windows.

MAC OS X

1. From the **Apple** drop-down list, select **System Preferences**.
2. Click the **Network icon**.
3. From the **Location** drop-down list, select **Automatic**.
4. Select and view your Ethernet connection.
 - In MAC OS 10.4, from the **Show** drop-down list, select **Built-in Ethernet** and select the **TCP/IP** tab.
 - In MAC OS 10.5 and above, in the left column, select **Ethernet**.
5. Configure TCP/IP to use a static IP.
 - From the **Configure IPv4** or **Configure** drop-down list, select **Using DHCP** and click the **Apply** or **Apply Now** button.
6. You may be prompted to restart your computer to apply the new IP address settings.

Q3: I typed http://192.168.10.200 in my Internet Browser Address Bar, but an error message says “The page cannot be displayed.” How can I access the wireless controller management page?

1. Double check all physical cable and port connections.
2. Make sure the POWER/SYSTEM LED on the wireless controller front panel is on.
3. Make sure your computer's network adapter is configured with a static IP address. (Refer to Q1 for instructions on assigning a static IP address).
4. Make sure your computer is connected to one of the Ethernet ports 1-5.
5. Since the switch default IP address is 192.168.10.200, make sure there are no other network devices assigned an IP address of 192.168.10.200

Note: After checking all of the recommended items above, please attempt to access the wireless controller management page again.

Q4: I changed the IP address of the wireless controller, but I forgot it. How do I reset my wireless controller to factory default?

Using a paper clip, push and hold the reset button on the rear panel of the wireless controller and release after 15 seconds. The default IP address of the switch is 192.168.10.200. The default user name and password is “admin”.

Q5: How do I find the current IP address of my computer's network adapter?

Note: Please note that although the following procedures are provided to follow for your operating system network adapter settings to be used as general guidelines, however, it is strongly recommended that you consult your computer or operating system manufacturer directly for assistance on the proper procedure for configuring network settings. If you are experiencing difficulties, please contact your computer or operating system manufacturer for assistance.

Command Prompt Method

Windows 2000/XP/Vista/7/8/8.1/10

1. On your keyboard, press **Windows Logo + R** keys simultaneously to bring up the Run dialog box.
2. In the dialog box, type **cmd** to bring up the command prompt.
3. In the command prompt, type **ipconfig /all** to display your IP address settings.

MAC OS X

1. Navigate to your **Applications** folder and open **Utilities**.
2. Double-click on **Terminal** to launch the command prompt.
3. In the command prompt, type **ipconfig getifaddr <en0 or en1>** to display the wired or wireless IP address settings.

Note: **en0** is typically the wired Ethernet and **en1** is typically the wireless Airport interface.

Graphical Method

Windows XP/Vista/7/8/8.1/10

1. On your keyboard, press **Windows Logo + R** keys simultaneously to bring up the Run dialog box.
2. In the dialog box, type **ncpa.cpl** to bring up the Network Connections window.
3. Double-click the Local Area Connection icon and click the Details button to view the current IP address settings.

Note: The computer's network adapter must be enabled and connected to view the current IP address settings.

MAC OS X

1. From the **Apple** menu, select **System Preferences**.
2. In System Preferences, from the **View** menu, select **Network**.
3. In the Network preference window, click a network port (e.g., Ethernet, AirPort, modem). If you are connected, you'll see your IP address settings under "Status:"

Declaration of Conformity

TRENDnet[®]

Manufacturer's Name and Address

TRENDnet, Inc.
20675 Manhattan Place
Torrance, CA 90501 USA

Zwolsestraat 156 2587 WB
The Hague The Netherlands



Product Information

Model Number: TEW-WLC100P
Product Name: PoE+ Wireless LAN Controller
Trade Name: TRENDnet

TRENDnet hereby declare that the product is in compliance with the essential requirements and other relevant provisions under our sole responsibility.

Safety

EN 62368-1: 2014

EMC

EN 55024: 2010 + A1: 2015
EN 55032: 2015

Energy Efficiency

Regulation (EU) No. 1275/2008, No. 801/2013

This product is herewith confirmed to comply with the Directives.

Directives:

Low Voltage Directive 2014/35/EU
EMC Directive 2014/30/EU
Ecodesign Directive 2013/35/EU
RoHS Directive 2011/65/EU
WEEE Directive 2012/19/EU
REACH Regulation (EU) No. 1907/2006

Person responsible for this declaration.

Date: November 02, 2017

Name: Sonny Su

Title: Director of Technology

Signature:

A handwritten signature in black ink, appearing to read 'Sonny Su', is written over a horizontal line.



TRENDnet[®]

Certifications

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.
- (2) This device must accept any interference received.

Including interference that may cause undesired operation.



Waste electrical and electronic products must not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or Retailer for recycling advice.

Applies to PoE Products Only: This product is to be connected only to PoE networks without routing to the outside plant.

Note

The Manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Advertencia

En todos nuestros equipos se mencionan claramente las características del adaptador de alimentación necesario para su funcionamiento. El uso de un adaptador distinto al mencionado puede producir daños físicos y/o daños al equipo conectado. El adaptador de alimentación debe operar con voltaje y frecuencia de la energía eléctrica domiciliar existente en el país o zona de instalación.

Technical Support

If you have any questions regarding the product installation, please contact our Technical Support.

Toll free US/Canada: **1-855-373-4741**

Regional phone numbers available
at www.trendnet.com/support

TRENDnet

20675 Manhattan Place
Torrance, CA 90501
USA

Product Warranty Registration

Please take a moment to register your product online. Go to TRENDnet's website at:
www.trendnet.com/register