

User's Guide

TRENDNET[®]



AC1200 WiFi Range Extender

TEW-822DRE

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Product Overview



TEW-822DRE

Features

TRENDnet's AC1200 WiFi Range Extender, model TEW-822DRE, offers extreme wireless coverage to eliminate existing wireless network dead spots. Setup takes minutes with no drivers to install and it stays out of the way by plugging directly into an outlet. Connect to either an existing WiFi N or WiFi AC router and extend concurrent WiFi N and AC networks into an area with low or no wireless.

Easy Setup

Quick intuitive setup connects to either a WiFi AC or WiFi N network and adopts existing WiFi settings

AC1200 Dual Band

Broadcasts concurrent high speed 867 Mbps WiFi AC + 300 Mbps WiFi N networks

Extreme Coverage

Adjustable external antennas, high power amplifiers, and multiple antenna technology produces extreme wireless coverage

Gigabit Port

Gigabit port extends a high performance connection to a wired device

No Clutter

The extender plugs directly into an outlet

Operating Modes

External switch toggles between Extender (connects to a WiFi network) and Access Point (connects to a wired network) modes

Encrypted Wireless

Supports the latest encryption standards

Compatibility

Compatible with legacy wireless devices

Targeted Beamforming

Increased real-time performance by directing stronger wireless signals to a device's specific location

**Maximum wireless signal rates are referenced from IEEE 802.11 theoretical specifications. Actual data throughput and coverage will vary depending on interference, network traffic, building materials and other conditions.*

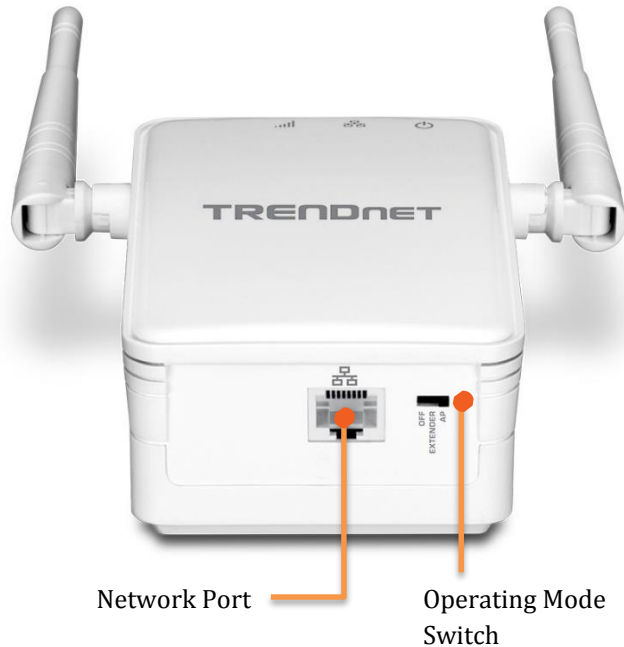
Package Contents

TEW-822DRE package includes:

- TEW-822DRE
- Multi-Language Quick Installation Guide
- CD-ROM (User's Guide)

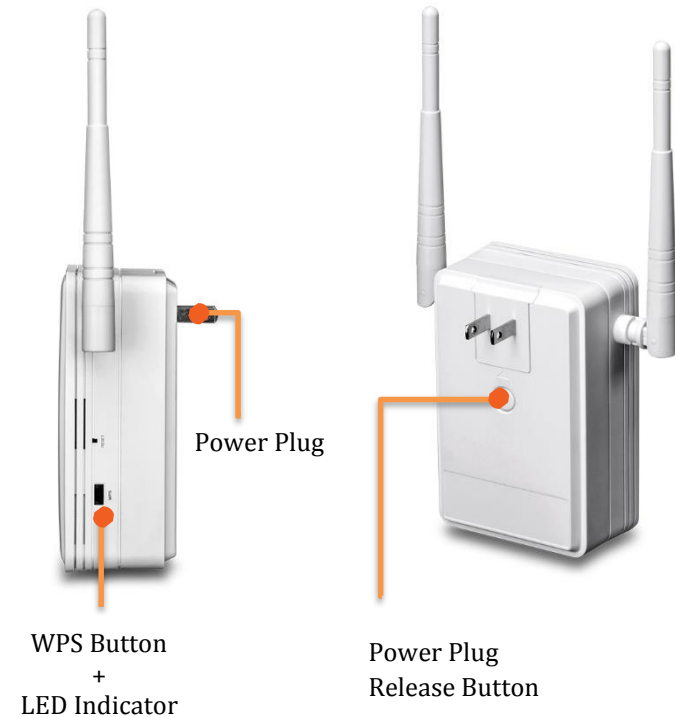
If any package content is missing or damaged, please contact the retail store, online retailer, or reseller/distributor from which the product was purchased.

Hardware Features



Network Port Connect a network cable (Ethernet cable) to your network when operating in AP (Access Point) mode.

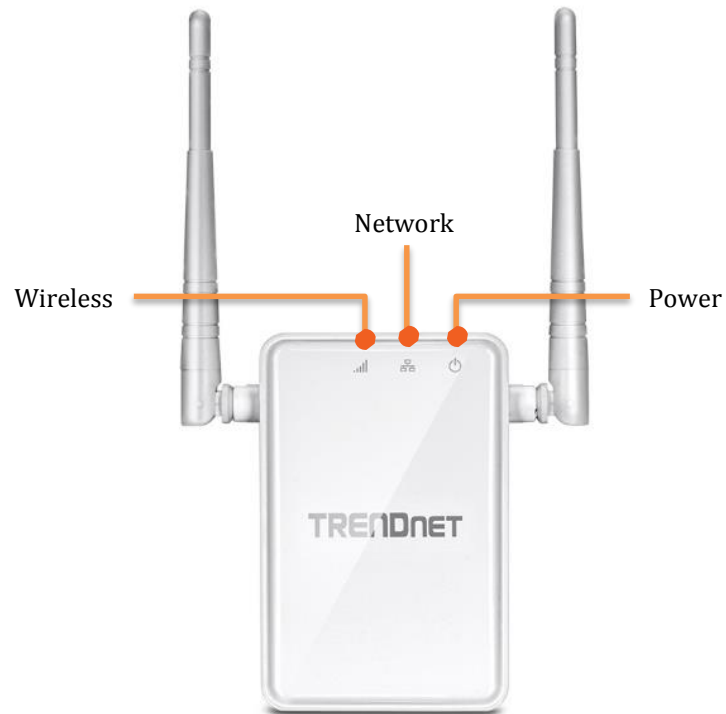
Operation Mode Switch Switch the **Operation Mode Switch** to **Off** to turn off the wireless. Position the switch to **Extender** to operate TEW-822DRE in range extender mode. Position the switch to **AP** to work in access point mode.



WPS (Wi-Fi Protected Setup) Button + LED Indicator Push and release the WPS button to activate WPS copying wireless settings from your router. The LED indicator will start blinking when WPS pairing is activated.

Reset Button Resets your repeater. Push and hold this button for 5 seconds with a pin or paper clip to reset configuration to factory default.

Power Plug Release Button To exchange different style of power plug. (This package comes with only one power plug.)



LED Indicators

Power The indicator is solid blue when your range extender is powered on. When this light is off, there is no power to your range extender. The light will also blink when WPS is activated. The light will stop blinking and remain solid blue automatically once WPS process is completed.

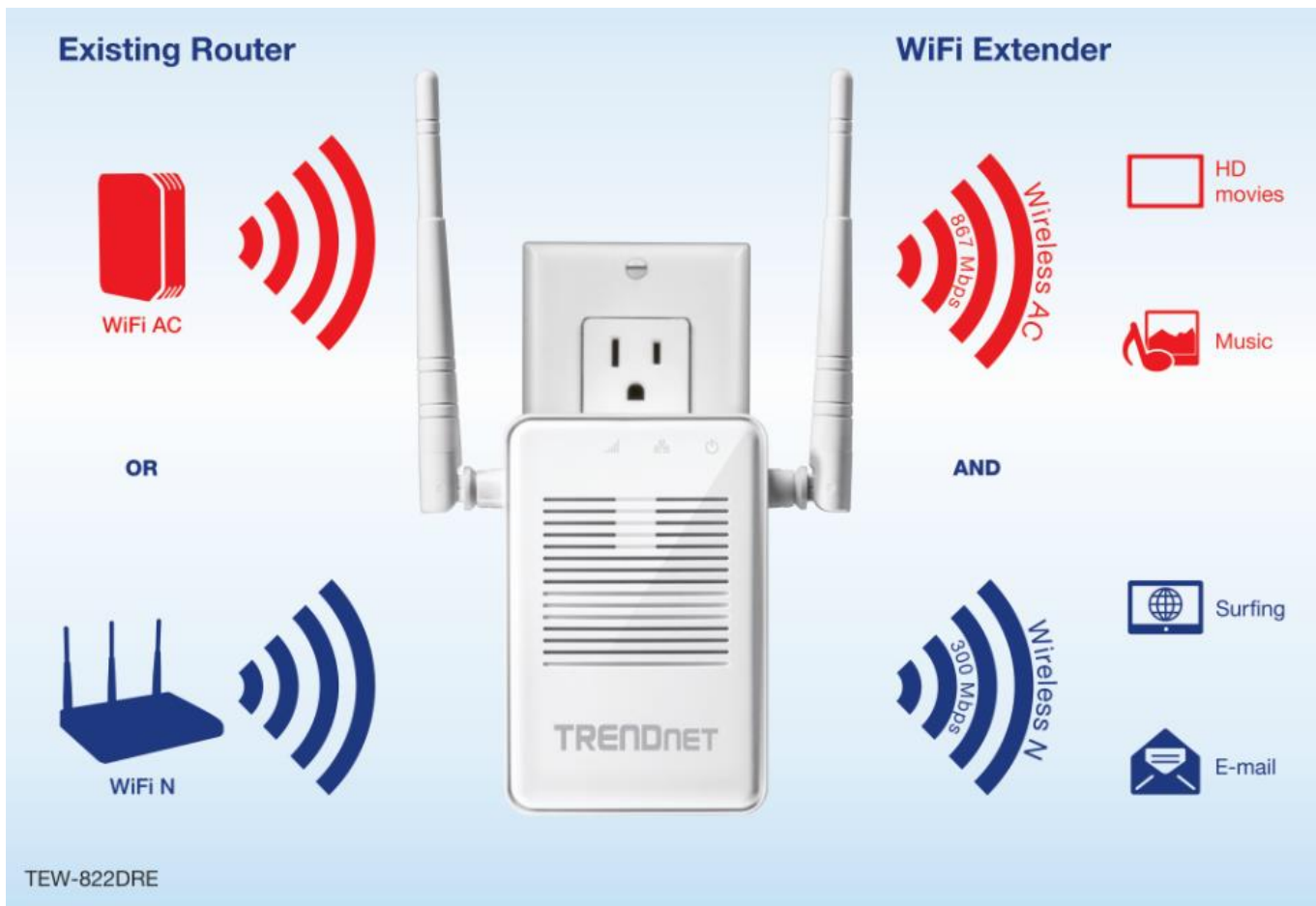
Network Connect a network cable (Ethernet cable) to your computer for manual configuration.

Wireless The **Wireless LED** shows the wireless connection between **Range Extender** and your wireless router. When it lights with solid blue, the **Range Extender** established a good wireless connection with your router. When it blinks, it means there are data running through the wireless connection.

Red Lights: When wireless connection is weak, the **Wireless LED** is in red. The **Range Extender** can still extend the weak wireless signal in lower speed. It is recommend to relocate your wireless router or **Range Extender** once there's a chance.

Off: The Wireless LED will be turned off if there's no wireless connection to your wireless router at all.

Application Diagram



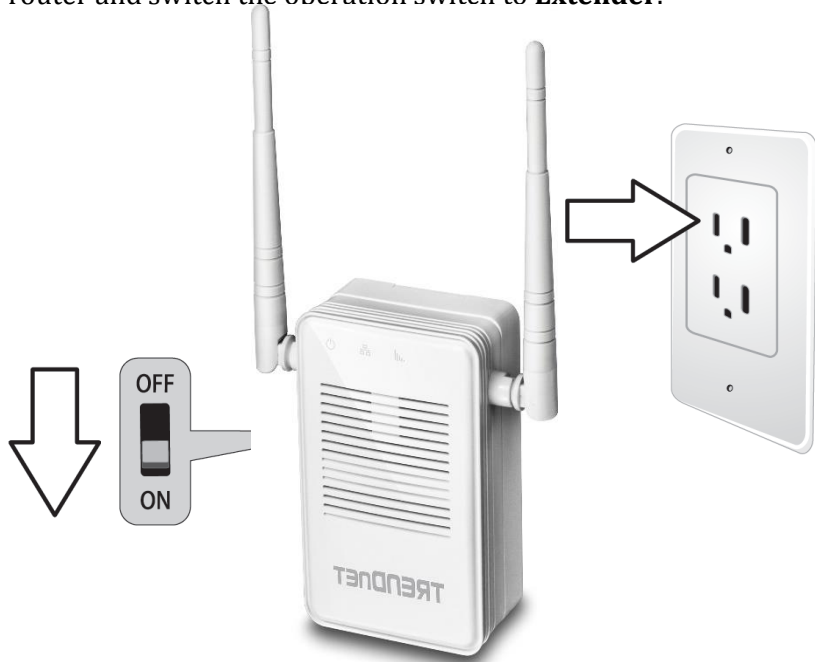
TEW-822DRE is a dual band 802.11ac range extender which can extend your wireless router's range or coverage. Furthermore, it can extend to both 2.4 GHz and 5 GHz bands to the clients. If your router works only on 2.4 GHz or 5 GHz, you can simply extend it to be a dual band network. simply plug the TEW-822DRE at a location in between your wireless router and your computer or mobile device to eliminate the dead spot of connection.

Setting Up

There are two ways of setup: by pushing Wi-Fi Protected Setup (WPS) button or web browser configuration.

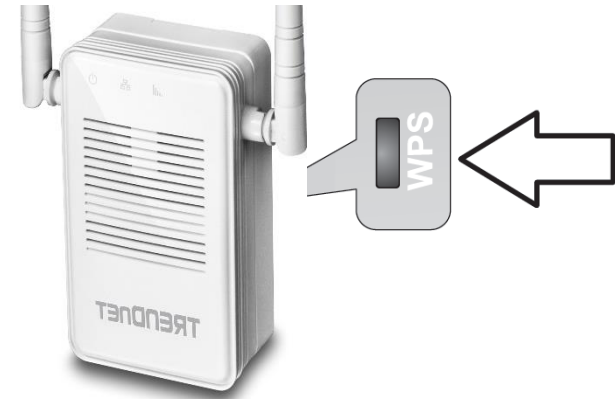
WPS Connection

1. Plug in the TEW-822DRE to a power outlet nearby your wireless router and switch the operation switch to **Extender**.

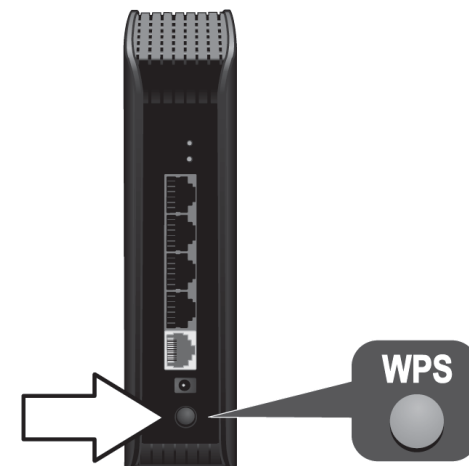


The power LED indicator will start blinking in blue, it means the system is booting up. When the LED blinking in amber, the TEW-822DRE is ready for setup.

2. Press and release the WPS button on the repeater. The LED will be blinking in green, which means the TEW-822DRE has begun WPS pairing.



3. Press and hold the WPS button on the router for 5 seconds to start WPS pairing.



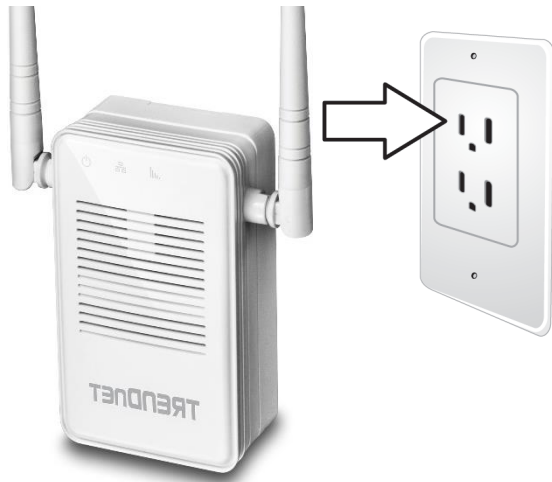
- The LED will change to solid blue once the WPS connection is established.



- (Optional) Relocate the TEW-822DRE and plug at a location between wireless router and your computer.

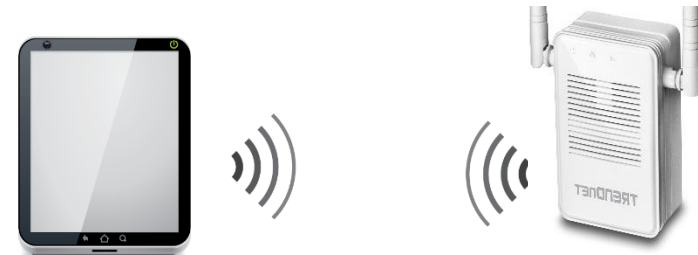
Web Browser Configuration

1. Plug in the TEW-822DRE to a power outlet nearby your wireless router and computer, then switch the device on.



The LED indicator will start blinking in red, which means the system is booting up. When the LED blinking in amber, the TEW-822DRE is ready for setup.

2. Open your computer's wireless network settings and search available wireless networks for **TRENDnet737**. No security password is required. The wireless encryption security will be setup in following steps.

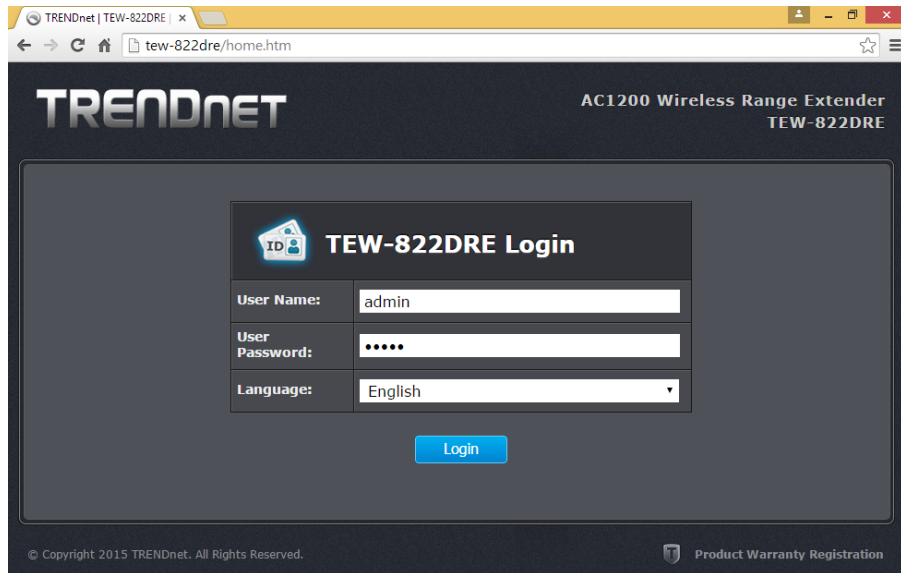


Or,

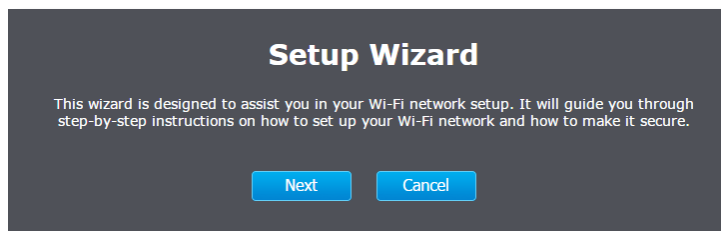
Connect a network cable (not included in the package) from your computer to the TEW-822DRE's network port.



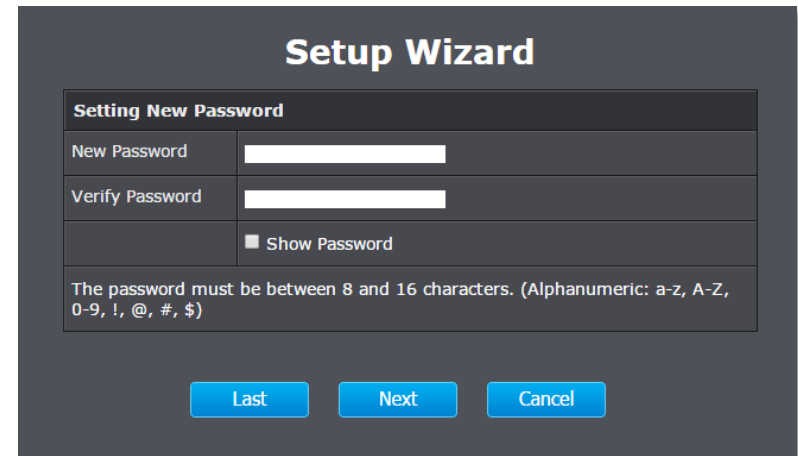
- Open the web browser and type **http://tew-822dre** or **http://192.168.10.100** to access the administration page. (See trouble shooting page if you cannot access the administration page.)



Enter administrator login information. (The default user name is **admin** and the password is **admin**.)



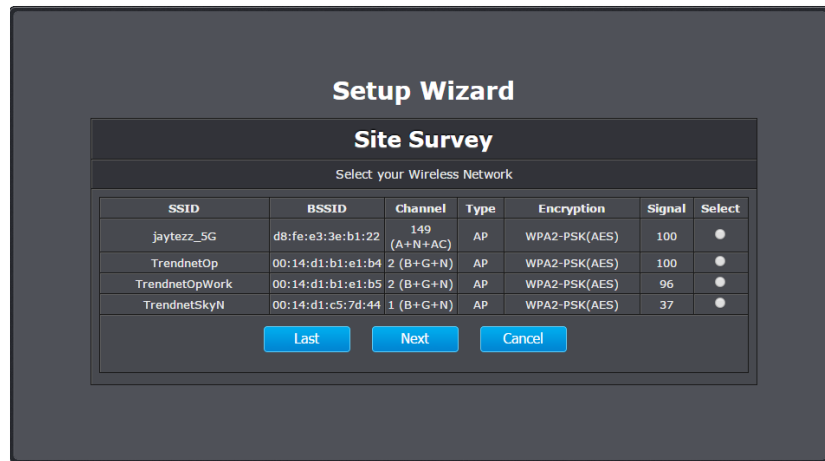
- Change your administrator password from the factory default setting. Click **Apply** to continue.



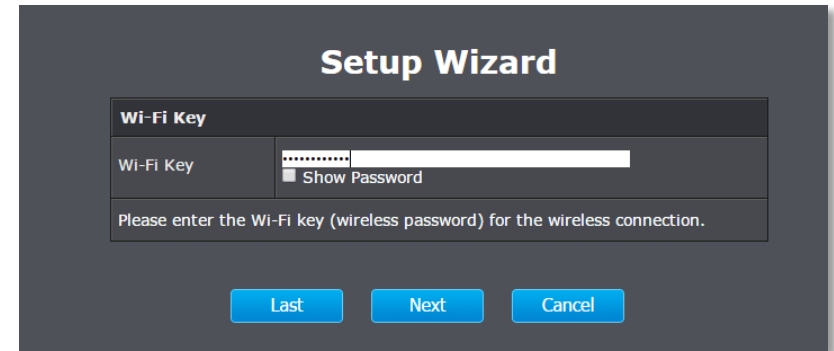
- Choose manual setting to search and select your wireless router manually.



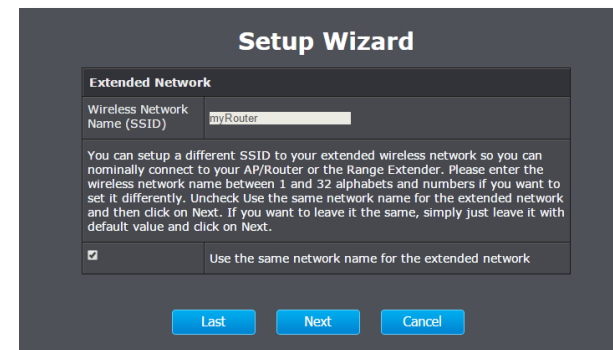
6. Select the wireless router or access point you want to connect with and then click **Connect**.



7. Enter the WiFi key and then click **Next**.



8. click **Next**.



9. TEW-822DRE will reboot to apply the change. The LED will cycle through flashing red, flashing amber, and then turn to solid green once the connection is established.

10. (Optional) Relocate the TEW-822DRE and plug at a location between wireless router and your computer.

Access your Range Extender through the Web Browser

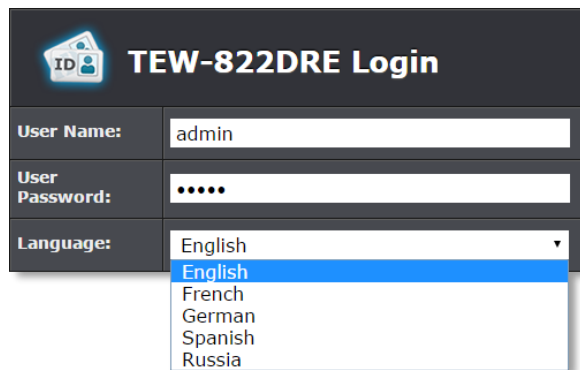
System Management and Default Settings

The TEW-822DRE has following settings:

User name:	admin
Password:	admin

Multi-Language

Select your preferred language in the TEW-822DRE login page.



TEW-822DRE Login	
User Name:	admin
User Password:	••••
Language:	English English French German Spanish Russia

Major Settings

Main - Wizard

Run the setup wizard again



Main - Network Settings

Main

- Wizard
- Network Settings**
- System
- Time Settings

Wireless

Status

Tools

Network Settings

[Save Settings](#) [Don't Save Settings](#)

IPv4 Network

Choose the way to setup your IPv4 access and network range.

Network Address Assigned With ▼

Dynamic IP (DHCP)

IPv4 Network

IP Address	<input type="text" value="192.168.10.100"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway Address	<input type="text" value="0.0.0.0"/>
Primary DNS Server	<input type="text" value="0.0.0.0"/>
Secondary DNS Server	<input type="text" value="0.0.0.0"/>

[Save Settings](#) [Don't Save Settings](#)

Main - System

Main

- Wizard
- Network Settings**
- System**
- Time Settings

Wireless

Status

Tools

System Settings

[Save Settings](#) [Don't Save Settings](#)

Device Name

You can access this Range Extender with its name directly. Enter "http://deviceName" in browser running on windows or "deviceName.local." in Safari on Mac or iPad.

Device Name

Password

New Password

Verify Password

Show Password

[Save Settings](#) [Don't Save Settings](#)

Main - Time Settings

Main

- Wizard
- Network Settings
- System
- Time Settings**

Wireless

Status

Tools

Time Settings

[Save Settings](#) [Don't Save Settings](#)

Current Time

Current Date/Time: 06/02/2015 10:57:54

Time Settings

Enable NTP Server:

NTP Server: [Update Now](#)

Time Zone: (GMT-08:00) Pacific Time (US/Canada), Tijuana

Enable Daylight Saving:

Daylight Saving Offset: +1.00

Daylight Saving Dates

	Month	Week	Day of Week	Time
DST Start	Mar	2nd	Sun	2 am
DST End	Nov	1st	Sun	2 am

Set the Date and Time Manually

Date And Time

Year	2015	Month	Jun	Day	08
Hour	15	Minute	51	Second	38

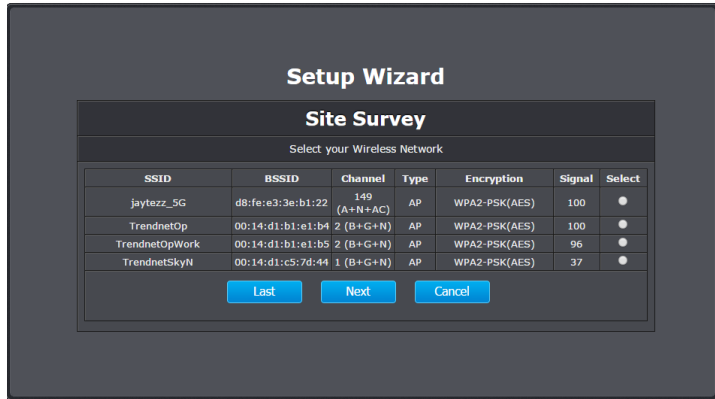
[Copy Your Computer's Time Settings](#)

[Save Settings](#) [Don't Save Settings](#)

Wireless

Site Survey

Search wireless sites.



Status

System Information

System reference information.

Main

Wireless

Status

[System Information](#)

[Local Logs](#)

[Statistics](#)

[Wireless Client List](#)

Tools

System Information

System

Firmware Version	1.00 , Tue, 02, Jun, 2015
Time	6/2/2015 10:4:2

LAN

Device Mode	AP Repeater
MAC Address	d8:eb:97:95:90:ce
Connection	Dynamic IP
IP Address	192.168.10.100
Subnet Mask	255.255.255.0
Gateway Address	0.0.0.0

2.4GHz Wireless

MAC Address	D8:EB:97:95:90:CF
SSID	TRENDnet822_2.4GHz_90CE
Security Mode	WPA2 Mixed
Channel Width	Auto 20/40MHz
Channel	2

5GHz Wireless

MAC Address	D8:EB:97:95:90:CE
SSID	TRENDnet822_5GHz_90CE
Security Mode	WPA2 Mixed
Channel Width	Auto 20/40/80MHz
Channel	40

Local Logs

Main

Wireless

Status

[System Information](#)

[Local Logs](#)

[Statistics](#)

[Wireless Client List](#)

[IPv6](#)

Access

Tools

View Local Logs

Log Options

Log Options

- System Activity
- Debug Information
- Attacks
- Dropped Packets
- Notice

[Apply Log Options Now](#)

Download

Download log history to your computer [Download](#)

Log Details :

[First Page](#)
[Last Page](#)
[Previous Page](#)
[Next Page](#)
[Clear Log](#)
[Refresh](#)

page 1 / 8

Time	Message
Jun 2 09:33:55	BusyBox v1.13.4
Jun 2 09:33:55	Do Warm Reset for U3
Jun 2 09:33:55	try Port Reset for U2
Jun 2 09:33:55	dwc_usb3 dwc_usb3: xHCI Host Controller
Jun 2 09:33:55	dwc_usb3 dwc_usb3: new USB bus registered, assigned bus number 1
Jun 2 09:33:55	dwc_usb3 dwc_usb3: irq 42, io mem 0x18040000
Jun 2 09:33:55	hub 1-0:1.0: USB hub found
Jun 2 09:33:55	hub 1-0:1.0: 1 port detected
Jun 2 09:33:55	dwc_usb3 dwc_usb3: xHCI Host Controller
Jun 2 09:33:55	dwc_usb3 dwc_usb3: new USB bus registered, assigned bus number 2
Jun 2 09:33:55	hub 2-0:1.0: USB hub found
Jun 2 09:33:55	hub 2-0:1.0: 1 port detected
Jun 2 09:33:55	usbcore: registered new interface driver usb-storage
Jun 2 09:33:55	pktgen: Packet Generator for packet performance testing. Version: 2.74
Jun 2 09:33:55	u32 classifier
Jun 2 09:33:55	nf_contrack version 0.5.0 (785 buckets, 3140 max)
Jun 2 09:33:55	ip_tables: (C) 2000-2006 Netfilter Core Team
Jun 2 09:33:55	TCP: cubic registered
Jun 2 09:33:55	NET: Registered protocol family 10
Jun 2 09:33:55	sit: IPv6 over IPv4 tunneling driver
Jun 2 09:33:55	NET: Registered protocol family 17
Jun 2 09:33:55	l2tp_core: L2TP core driver, V2.0
Jun 2 09:33:55	Realtek FastPathV1.03
Jun 2 09:33:55	VFS: Mounted root (squashfs filesystem) readonly on device 31:1.

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Statistics

Main	Traffic Statistics			
Wireless				
Status				
System Information				
Local Logs				
Statistics				
Wireless Client List				
Tools				

LAN			
Sent	8998	Received	8898
TX Packets Dropped	0	RX Packets Dropped	0
Collisions	0	Errors	0

2.4GHz Wireless			
Sent	728	Received	41849
TX Packets Dropped	0	RX Packets Dropped	0
Collisions	0	Errors	0

5GHz Wireless			
Sent	337	Received	20142
TX Packets Dropped	0	RX Packets Dropped	0
Collisions	0	Errors	0

Wireless Client List

List all the wireless clients.

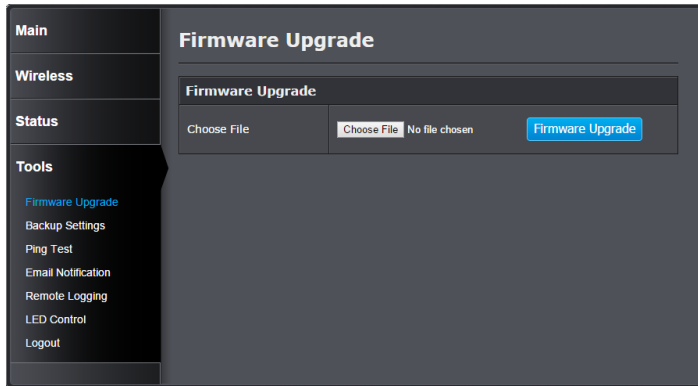
Main	Wireless Client List	
Wireless		
Status		
System Information		
Local Logs		
Statistics		
Wireless Client List		
Tools		

2.4GHz Wireless Clients List	
Connected Time	MAC Address
---	NONE

5GHz Wireless Clients List	
Connected Time	MAC Address
---	NONE

Tools

Upload Firmware

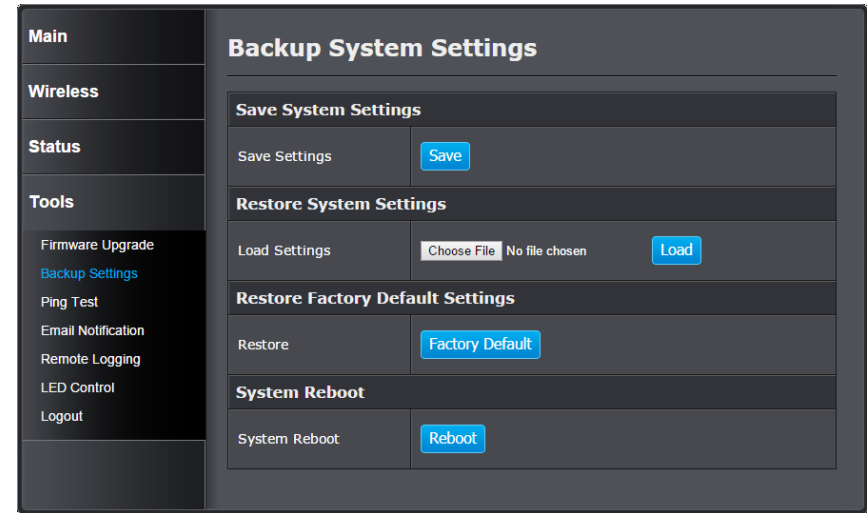


Click **Upload Firmware** on the menu to list associated wireless clients. TRENDnet may periodically release firmware upgrades that might add features or fix problems associated with your TRENDnet model and version. To find out if there is a firmware upgrade available for your device, please check your TRENDnet model and version using the link.

<http://www.trendnet.com/downloads/>

1. If a firmware upgrade is available, download the firmware to your Computer.
2. Unzip the file to a folder on your computer.
3. Log into the repeater (default <http://tew-822dre>)
4. Click on **Administrator** and then **Upload Firmware**.
5. Click **Browse ...** and navigate to the folder on your computer in which the unzipped firmware file (.bin) is.
6. Located and select it the firmware file.
7. Click **Upload**.

Backup Settings



Save Configuration Settings Click **Save** to export settings to your computer.

Restore Configuration Settings To restore settings previously saved on your computer, click **Browse...** to select a configuration file and then click **Load** to import the previous settings.

Restore Factory Default Settings Click **Restore** to restore settings to factory defaults.

System Reboot Click **Restart** to reboot your TEW-822DRE.

Ping Test

Ping test tool.

Main	Ping Test	
Wireless		
Status		
Tools		
Firmware Upgrade		
Backup Settings		
Ping Test		
Email Notification		
Remote Logging		
LED Control		
Logout		

IPv4 Ping Test

Host Name or IPv4 Address

Ping Result

Enter a host name or IP address above and click "Ping".

Email Notification

Email notification setups.

Main	Email Notification	
Wireless	<input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/>	
Status		
Tools		
Firmware Upgrade		
Backup Settings		
Ping Test		
Email Notification		
Remote Logging		
LED Control		
Logout		

Enable

Enable Email Notification

Email Notification

The email notification supports only plain text notification.

From Email Address

To Email Address

Email Subject

SMTP Server Address

SMTP Server Port

Enable Authentication

Security Type TLS SSL

Account name

Password

Verify Password Show Password

Notification

Send Notification Automatically when the log is full

Remote Logging

Remote Syslog.

The screenshot shows the 'Syslog Service Settings' page. On the left is a navigation menu with categories: Main, Wireless, Status, and Tools. Under 'Tools', 'Remote Logging' is highlighted. The main content area has a title 'Syslog Service Settings' and two 'Save Settings' buttons. Below is a 'Syslog Server' section with a toggle for 'Enable Logging To Syslog Server' (currently off), and a text input field for 'Syslog Server IP Address'. Another 'Save Settings' button is at the bottom right.

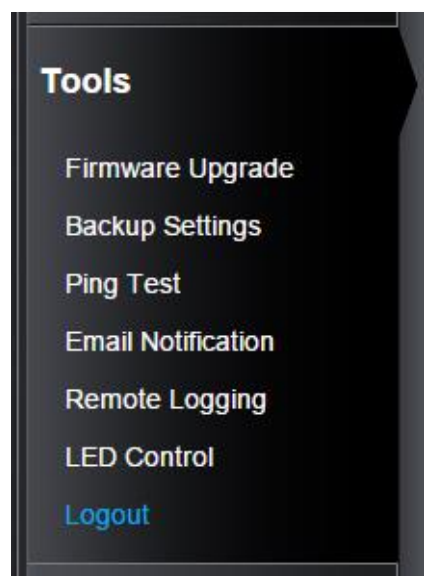
LED Control

Control LED indicators.

The screenshot shows the 'LED Control' page. On the left is a navigation menu with categories: Main, Wireless, Status, and Tools. Under 'Tools', 'LED Control' is highlighted. The main content area has a title 'LED Control' with a 'Help' button, and two 'Save Settings' buttons. Below is an 'LED Disable' section with a toggle for 'LED Disable' (currently off). Another 'Save Settings' button is at the bottom right.

Logout

Logout from the system.



Technical Specifications

Wireless Modulation: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM with OFDM

Antenna : External antenna

Frequency:

- FCC: 2.412 - 2.462 GHz, 5.180 - 5.240 GHz, 5.745 - 5.825 GHz
- ETSI: 2.412 - 2.472 GHz, 5.180 - 5.580 GHz, 5.660 - 5.700 GHz

Wireless Channels:

- FCC: 1 -11, 36, 40, 44, 48, 149, 153, 157, 161, 165
- ETSI: 1 - 13, 36, 40, 44, 48, (52, 56, 60, 64, 100, 104, 108, 112, 116, 132, 136, 140)

Due to regulatory requirements, the wireless channels specified cannot be statically assigned, but will be available within the available wireless channels when set to auto.

Data Rate:

- 802.11ac: up to 867 Mbps (Auto Fallback)
- 802.11a: up to 54 Mbps
- 802.11n: up to 300 Mbps (Auto Fallback)
- 802.11g: up to 54 Mbps
- 802.11b: up to 11 Mbps

Output Power:

- 802.11a: FCC: 22 dBm (typical), CE: 20 dBm (typical) @ 54 Mbps
- 802.11b: FCC: 20 dBm (typical), CE: 20 dBm (typical) @ 11 Mbps
- 802.11g: FCC: 27 dBm (typical), CE: 20 dBm (typical) @ 54 Mbps
- 802.11n: FCC: 27 dBm (typical), CE: 20 dBm (typical) @ 300 Mbps
- 802.11ac: FCC: 26 dBm (typical), CE: 20 dBm (typical) @ 867 Mbps

Receiving Sensitivity:

- 802.11a: -65 dBm (typical) @ 54 Mbps
- 802.11b: -83 dBm (typical) @ 11 Mbps
- 802.11g: -65 dBm (typical) @ 54 Mbps

- 802.11n: -61 dBm (typical) @ 300 Mbps
- 802.11ac: -51 dBm (typical) @ 867 Mbps

Encryption: 64/128-bit WEP, WPA / WPA2-PSK

**Maximum wireless signal rates are referenced from IEEE 802.11 theoretical specifications. Actual data throughput and coverage will vary depending on interference, network traffic, building materials and other conditions.*

Troubleshooting

Situation: I typed `http://tew-822dre` but I am not able to access the unit. What should I do?

Solution:

The host name resolution is good for most systems, including Windows, OS X, and iOS. Please enter the IP address (default: 192.168.10.100) if you experience difficulty in accessing the range extender.

Proceed following steps for correct name resolution.

1. Turn the TEW-822DRE's operating mode switch to **Extender** or **AP**.
2. Reset the device to factory default settings by pushing the reset button for 5 seconds.
3. Make sure you have a good wireless connection to the default SSID: **TRENDnet822_5GHz_xxxx**, **TRENDnet822_2.4GHz_xxxx**, or connect to the TEW-822DRE using a network cable. The default wireless password is printed on the device label on same side of the power plug.
4. Make sure your laptop/PC is not joined to any network domain.
5. Open a browser and type `http://tew-822dre` (You must enter the leading `http://` to resolve the text as a host name)

Situation: How do I reset the device to factory default?

Solution:

1. Use a pin such as a staple to press and hold the reset button at the bottom of the TEW-822DRE for 5 seconds.
2. You can also reset from the management page.

Situation: I entered `http://192.168.10.100` but I am not able to access the unit. What should I do?

Solution:

1. Turn the TEW-822DRE's operating mode switch to **Extender** or **AP**.
2. Reset the device to factory default settings by pushing the reset button for 5 seconds.
3. Make sure you have a good wireless connection to the default SSID: **TRENDnet822_5GHz_xxxx**, **TRENDnet822_2.4GHz_xxxx**, or connect to the TEW-822DRE using a network cable. The default wireless password is printed on the device label on same side of the power plug.
4. Make sure your computer has no other network connections. For example, if you access TEW-822DRE through wireless, disconnect your Ethernet cable.
5. Open a browser and enter `http://192.168.10.100`

Situation: How do I make sure my unit is connected to a router or an AP?

Solution:

The LED will turn solid blue when the TEW-822DRE is successfully connected to a router or an AP.

Situation: How can I access the TEW-822DRE once it is setup?

Solution:

You can use its host name (<http://tew-822dre>) or IP address to access the TEW-822DRE. After repeater setup, the TEW-822DRE will get an IP address from your router (DHCP). Check the DHCP client list on your router if you want to access the TEW-822DRE with its IP address.

Regulations

Federal Communication Commission Interference Statement

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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.



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 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

Operation of this device is restricted to indoor use only.

Industry Canada

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.

Caution:

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;

Avertissement:

les dispositifs fonctionnant dans la bande de 5150 à 5250MHz 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;

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

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

Limited Warranty

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

- TEW-822DRE – 3 Years Warranty

If a product does not operate as warranted during the applicable warranty period, TRENDnet shall reserve the right, at its expense, to repair or replace the defective product or part and deliver an equivalent product or part to the customer. The repair/replacement unit's warranty continues from the original date of purchase. All products that are replaced become the property of TRENDnet. Replacement products may be new or reconditioned. TRENDnet does not issue refunds or credit. Please contact the point-of purchase for their return policies.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product by any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual.

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TEW-822DRE v1.0R User's Guide V1.0



Product Warranty Registration

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

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