How to Configure my Range Extender

Root Router
IP: 192.168.1.254

Range Extender
IP: 192.168.1.250

This article is specifically for range extenders that do not have a DHCP server. To learn how to set up models TL-WA750RE and up, click here.

Before configuration, make sure you have the necessary root router information:

Information of Root Router:

- **LAN IP:** 192.168.1.254

- **SSID:** 2WIRE_TEST

- **Encryption Type:** WPA2-PSK with AES

- **Passphrase:** testtplink

Preparation

●Since the DHCP function on the Range Extender is disabled by default, you'll need to manually assign an IP address as **192.168.1.x** to the computer to match the default IP address of the range extender. Click here for detailed instruction. For TL-WA830RE, the LAN IP is **192.168.0.254**, requiring you to assign **192.168.0.x** to your computer.

●Connect the computer to the Range Extender with an Ethernet cable. And disconnect the wireless from the root router.

Range Extender Configuration

Step 1.

Log into the range extender's management page. Click <u>here</u> for detailed instructions on how to do so.

Step 2.

Click **Network**. Make sure the range extender's IP address is in the same IP segment with the root router. In this instance, we can change the IP to "192.168.1.250". Then click **Save**.

LAN

MAC Address:	00-27-19-E5-38-C7
Type:	Static IP
IP Address:	192.168.1.250
Subnet Mask:	255.255.255.0
Gateway:	192.168.1.254

Save

Notice: If the root router is not in the IP segment **192.168.1.X,** (for example,192.168.0.254) you'll need to change the IP of the range extender to **192.168.0.250.** and click **Save**. Then, change the IP of your computer to **192.168.0.100.** Afterwards, log into the range extender's management page by using the new IP **192.168.0.250.**

Step 3.

Click **Quick Setup**. Then, click **Next** > **Wireless**. Select **Range Extender** as the Operation Mode. Then click **Search**.

Quick Setup - Wireless

Operation Mode:	Range Extender
MAC of AP:	
Region:	United States
Warning:	Ensure you select a correct country to conform local law. Incorrect settings may cause interference.

Search

Back   Next

Step 4.

Find the root router's SSID on the list, then click **Connect**.

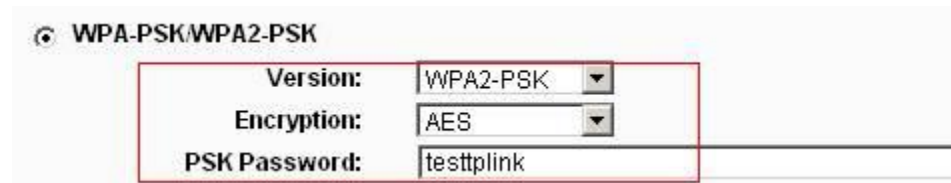| ID	BSSID	SSID	Signal	Channel	Security	Choose
1	94-0C-6D-59-29-9E	TP-LINK_59299E	45dB	1	ON	Connect
2	94-0C-6D-86-02-07	TP-LINK_860207	45dB	1	OFF	Connect
3	00-1D-0F-36-5F-E6	czc-b	6dB	1	ON	Connect
4	D8-5D-4C-13-12-06	TL	3dB	2	OFF	Connect
5	00-18-25-00-C1-40	ZCHX-Wavion	4dB	2	ON	Connect
6	00-1C-F0-E2-AD-2F	dlink	44dB	2	ON	Connect
7	94-0C-6D-18-A2-AE	TP-LINK_18A2AE	23dB	3	OFF	Connect
8	00-1D-5A-64-09-31	2WIRE_TEST	67dB	6	ON	Connect
9	00-21-29-AE-95-DC	linksys-szmateton	1dB	6	ON	Connect

Step 5.

Click **Save.**

Step 6.

Click **Wireless** > **Wireless Security**. Select **WPA-PSK/WPA2-PSK**, and **Encryption AES**. Input the password **testtplink** in the PSK Password field. Then click **Save**. The security settings on the range extender must be the same as the root router.

If you're unsure of the correct security information, contact your router's technical support.

The range extender should now be working properly with the root router.

How to Confirm:

Click **System Tools** > **Diagnostic**. Then, type in the root router's IP 192.168.1.254 in the IP address (or IP address/Domain Name) bar. Then, click **Start.**

Diagnostic Tools

Diagnostic Parameters

Diagnostic Tool:	⊙ Ping ○ Traceroute
IP Address/ Domain Name:	192.168.1.254
Ping Count:	4 (1-50)
Ping Packet Size:	64 (4-1472 Bytes)
Ping Timeout:	800 (100-2000 Milliseconds)
Traceroute Max TTL:	(1-30)

Diagnostic Results

```
Pinging 192.168.1.254 with 64 bytes of data:

Reply from 192.168.1.254: bytes=64 time=1 TTL=64 seq=1
Reply from 192.168.1.254: bytes=64 time=1 TTL=64 seq=2
Reply from 192.168.1.254: bytes=64 time=1 TTL=64 seq=3
Reply from 192.168.1.254: bytes=64 time=1 TTL=64 seq=4

Ping statistics for 192.168.1.254
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milliseconds:
  Minimum = 1, Maximum = 1, Average = 1
```

Start

Step 7.

Set the computer to obtain the IP address automatically.

If the Ping is not successful, check all above settings carefully, or contact TP-Link support for help.