

VPN User Guide

Dual-Band Wi-Fi Router



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Preface

This guide describes how to configure the VPN function of the Tenda Dual-Band Wi-Fi Router.

Conventions

The typographical elements that may be found in this document are defined as follows.

Item	Presentation	Example
Cascading menus	>	More > VPN
Parameter and value	Bold	Set User Name to Tom .
Variable	Italic	Format: <i>XX:XX:XX:XX:XX:XX</i>
UI control	Bold	On the Policy page, click the OK button.
Message	“ ”	The “Success” message appears.

The symbols that may be found in this document are defined as follows.

Symbol	Meaning
 NOTE	This format is used to highlight information of importance or special interest. Ignoring this type of note may result in ineffective configuration, loss of data or damage to device.
 TIP	This format is used to highlight a procedure that will save time or resources.

More information and support

Visit www.tendacn.com and search for the product model to get installation videos, questions answered and the latest documents.

Revision history

Tenda is constantly searching for ways to improve its products and documentation. The following table indicates any changes that might have been made since the user guide was introduced.

Version	Date	Description
V1.0	2025-12-31	Original publication.

Contents

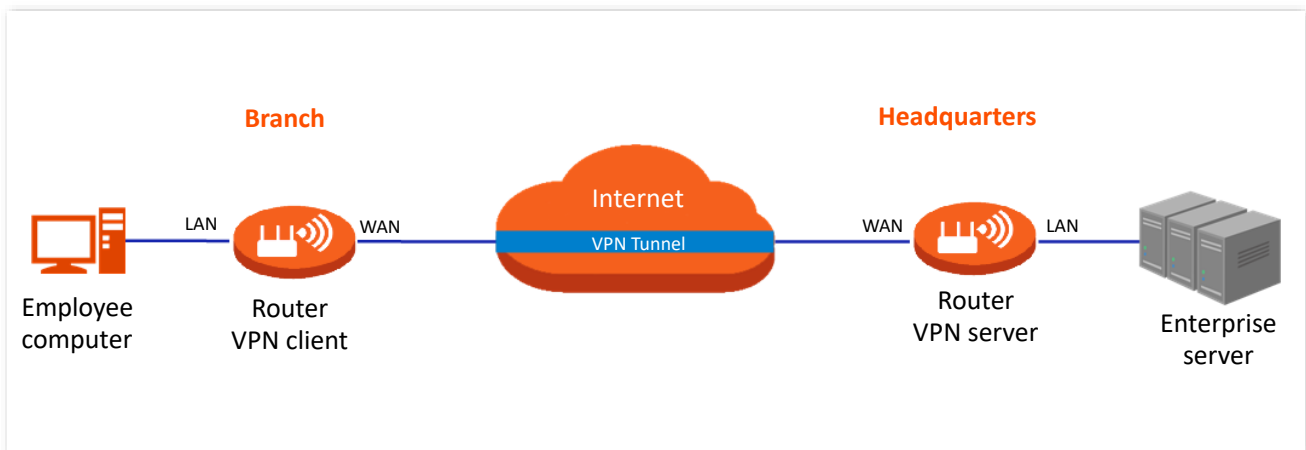
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1

VPN overview

A Virtual Private Network (VPN) is a private network built on a public network (usually the internet). This private network exists only logically and has no actual physical lines. VPN technology is widely used in corporate networks to share resources between corporate branches and headquarters, while ensuring that these resources are not exposed to other users on the internet.

The topology of a VPN network is shown below.



This router can function as:

- A PPTP server and accept connections from PPTP clients.
- A WireGuard client and connect to WireGuard server.
- A OpenVPN client and connect to OpenVPN server.
- A PPTP/L2TP client and connect to PPTP/L2TP servers.

2

Use PPTP VPN to access your home network



Ensure that the WAN IP address of router is public. This function may not work on a host with a private IP address. Common IPv4 addresses are classified into class A, class B and class C. Private IP addresses of class A range from 10.0.0.0 to 10.255.255.255. Private IP addresses of class B range from 172.16.0.0 to 172.31.255.255. Private IP addresses of class C range from 192.168.0.0 to 192.168.255.255.

To use PPTP VPN to access your home network:

1. Set up PPTP VPN server on your router.
 - (1) Launch a web browser from a computer that is connected to your network.
 - (2) Enter **tendawifi.com**.
A login window displays.
 - (3) Enter the login password.
The password is case-sensitive.
 - (4) Enter the **VPN Server** configuration page (for example, go to **More > VPN > VPN Server**, subject to the actual path).
 - (5) Turn on **PPTP Server**.
 - (6) In the **Address Pool Range** field, enter the range of IP addresses that can be leased to the devices by the PPTP VPN server.
 - (7) Turn on or turn off **MPPE Encryption** as required. The encryption settings should be the same between the PPTP server and PPTP clients. Otherwise, communication cannot be achieved normally.
 - (8) Click **Save**.

VPN Server

Set up a PPTP VPN and accounts for remote access to your network.

PPTP Server

☒

Address Pool Range

10

.

0

.

0

.

100

– 10.0.0.

200

MPPE Encryption

☐

Save

- (9) Click **Add**. Set **User Name** and **Password** to authenticate devices to the PPTP VPN Server. Then, click **OK**. The username and password shown here are for reference only.

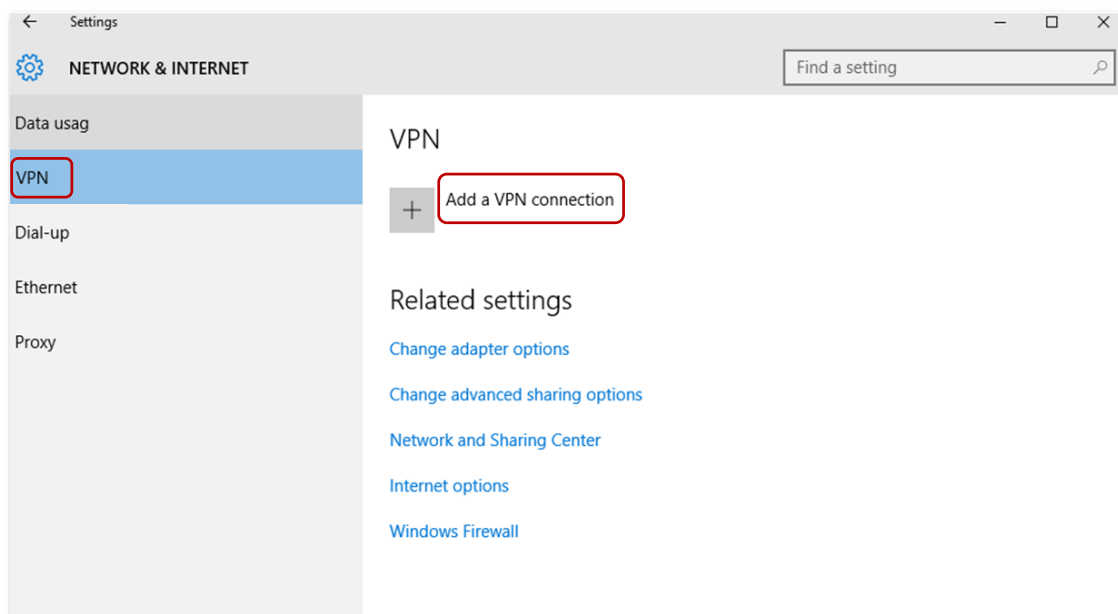


The screenshot shows a dialog box titled "Add" with a close button (X) in the top right corner. It contains two text input fields: "User Name" with the value "admin1" and "Password" with the value "admin1". At the bottom right, there are two buttons: "Cancel" and "OK".

2. Configure PPTP VPN connection on your remote device.

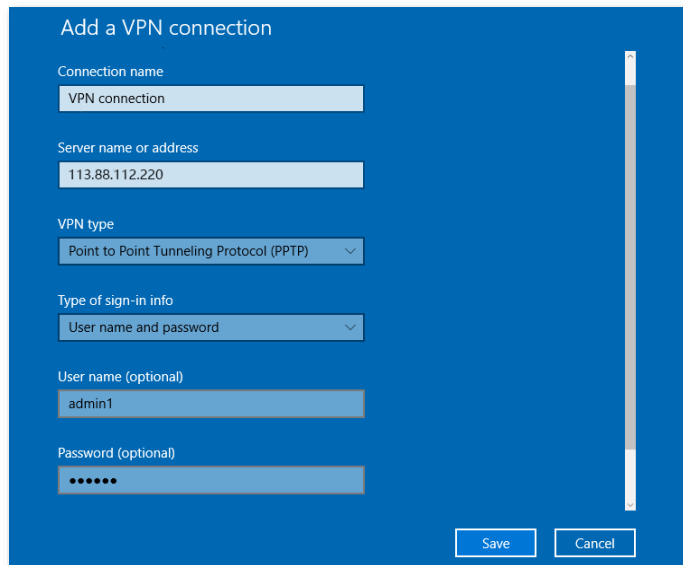
The remote device can use the Windows built-in PPTP software or a third-party PPTP software to connect to PPTP Server. Here we use the **Windows built-in PPTP software** as an example.

- (1) Go to **Start > settings > Network & Internet**.
(2) Click **VPN** on the left side, and click **Add a VPN connection**.



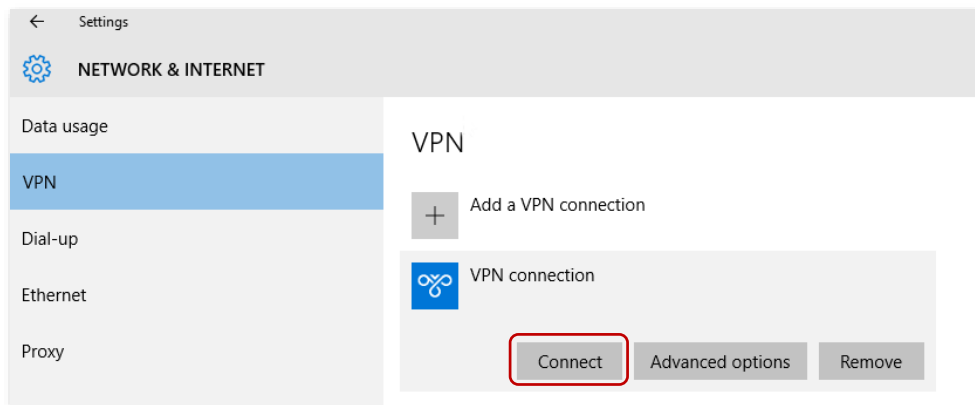
- (3) Enter a connection name, such as **VPN connection**.
(4) Enter the server address, which is **113.88.112.220** (Router's WAN IP address) in this example.
(5) Select the VPN type as **Point to Point Tunneling Protocol (PPTP)**.
(6) Select the type of sign-in info as **User name and password**.
(7) Enter the user name and password you have set for the PPTP VPN server on your router.

(8) Click **Save**.



The screenshot shows a blue dialog box titled "Add a VPN connection". It contains several input fields and dropdown menus. The "Connection name" field is filled with "VPN connection". The "Server name or address" field is filled with "113.88.112.220". The "VPN type" dropdown is set to "Point to Point Tunneling Protocol (PPTP)". The "Type of sign-in info" dropdown is set to "User name and password". The "User name (optional)" field is filled with "admin1". The "Password (optional)" field is filled with six dots. At the bottom right, there are "Save" and "Cancel" buttons.

3. Find the VPN connection added, and click **Connect**.



---End

Wait a moment, the VPN connection is successful.

3

View online PPTP users

When the PPTP server function is enabled, you can view the detailed information of VPN clients that establish connections with the PPTP server.

Log in to the web UI of the router, and enter the **Online PPTP User** page (for example, go to **More > VPN > VPN Server**, subject to the actual path).

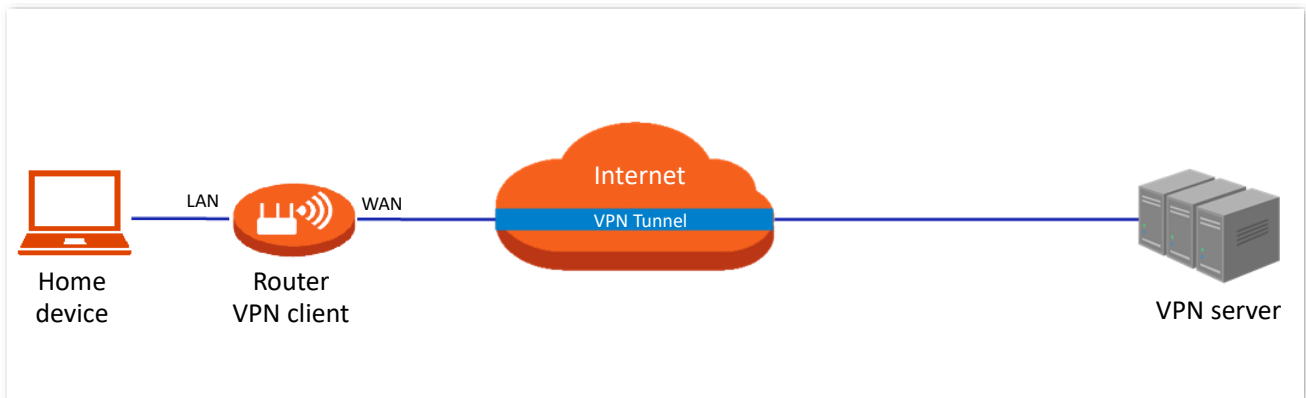
Online PPTP User			
User Name	Dial-In IP Address	Assigned IP Address	Uptime
No online client			

Parameter description

Parameter	Description
User Name	Specifies the VPN user name, which the VPN user uses when making PPTP dial-ups (VPN connection).
Dial-In IP Address	Specifies the IP address of the PPTP client. If the client is a router, it will be the IP address of the WAN port whose VPN function is enabled.
Assigned IP Address	Specifies the IP address that the PPTP server assigns to the client.
Uptime	Specifies the online time since the VPN connection succeeds.

4

Use VPN client to access a remote VPN server



4.1 Use WireGuard client to access VPN resources

I. Get Wireguard client information

Method 1: Download the **.conf** configuration file from the WireGuard server.

Method 2: Obtain the configuration parameters from the WireGuard service provider.

II. Configure the router (Example: Computer)

Step 1: Turn on VPN Client.

1. Launch a web browser from a computer that is connected to your network.
2. Enter **tendawifi.com**.
A login window displays.
3. Enter the login password.
The password is case-sensitive.
4. Enter the **VPN Client** configuration page (for example, go to **More > VPN > VPN Client**, subject to the actual path).
5. Turn on **VPN Client**.

Step 2: Add a Wireguard client rule.

1. Click **Add**.
2. Enter the **Description**, which is **Test** in this example. It can be filled in with VPN operator name or according to your needs.
3. Choose **WireGuard** for **VPN Type**.
4. Configure a Wireguard client rule using either method.

Import configuration file (Recommended)

Click **Select File**. Select and upload the **.conf** configuration file downloaded from the WireGuard server. Then the detailed parameters will be automatically filled. The parameter configurations in the figure below are for reference only.

Manual setup with details provided by your VPN provider

- (1) Enter the **Private Key**.
- (2) Set the IP address of the local site (IP of the WireGuard communication interface), which is **12.0.0.2/24** in this example.
- (3) (Optional) Set **DNS Server** and **MTU Size** as required.
- (4) Enter the **Public Key**, **Pre-Shared Key** (optional), **Allowed IPs** (recommended: 0.0.0.0/0), **Endpoint Address** (the IP address of the public network), **Endpoint Port**, **Persistent Keepalive** (the public network NAT connection interval) of the peer site. The parameter configurations in the figure below are for reference only.
5. Click **OK**.

Add

Description
Test

VPN Type
WireGuard

Private Key:
UB6940h40hL4mkDjuh6gBTQEhb9ewlNswvF...
Public Key:
reVAdtC+HvPoxEJJSGWOMaPjDBhUFwjDK+d...
RENEW KEY

Import from Config File
Select File

Interface

Private Key
(1)

Address
12.0.0.2/24
(2)

Listen Port
51820

DNS Server 1
Optional
DNS Server 2
Optional
MTU Size
1420
Optional
(3)

Peer

Public Key
Pre-Shared Key
Optional
Allowed IPs
0.0.0.0/0
Endpoint Address
1.83.124.217
Endpoint Port
51820
Persistent Keepalive
300
Optional
(4)

Cancel
OK

Step 3: Enable a Wireguard client rule.

Enable WireGuard in the **Server List**. The **Status** field will display **Connected**. The following figure is for reference only.



- If it keeps showing **Connecting**, try another **.conf** configuration file.
- If multiple **.conf** files fail to connect, you can contact Tenda customer service and provide analysis of the **.conf** files.

Server List						Add
VPN Type	Description	Server	Status	Enable	Operation	
WireGuard			Connected	☒		

---End

4.2 Use OpenVPN client to access VPN resources

I. Get OpenVPN client information

Download the **.ovpn** configuration file from the OpenVPN server.

II. Configure the router (Example: Computer)

Step 1: Turn on VPN Client.

1. Launch a web browser from a computer that is connected to your network.
2. Enter **tendawifi.com**.
A login window displays.
3. Enter the login password.
The password is case-sensitive.
4. Enter the **VPN Client** configuration page (for example, go to **More > VPN > VPN Client**, subject to the actual path).
5. Turn on **VPN Client**.

Step 2: Add an OpenVPN client rule.

1. Click **Add**.
2. Enter the **Description**, which is **Test 2** in this example. It can be filled in with VPN operator name or according to your needs.
3. Choose **OpenVPN** for **VPN Type**.
4. Configure an OpenVPN client rule.

- (1) Click **Select File** next to **Import .ovpn File**. Select and upload the **.ovpn** configuration file downloaded from the OpenVPN server.
- (2) Configure relevant parameters (if any) provided by VPN provider.
 - **A:** Enter the **Username** and **Password**.
 - **B:** Click **Select File** next to **Import CA File**. Select and upload the CA file provided by VPN provider. (If the Certificate Authority is not auto filled)
 - **C:** Enter the **Client Certificate** and **Client Key**. (If not auto filled)
 - **D:** Enter the **Static Key**. (If not auto filled)

5. Click **OK**.

The screenshot shows a configuration window titled "Add" with a close button (X) in the top right corner. The window contains the following fields and controls:

- Description:** Text input field containing "Test2".
- VPN Type:** Dropdown menu set to "OpenVPN".
- Username:** Text input field, marked as "Optional".
- Password:** Text input field with a toggle icon, marked as "Optional".
- Import .ovpn File:** Section with an information icon (i) and a "Select File" button. A red box with the number (1) highlights this button.
- Server IP/Domain Name:** Text input field.
- Import CA File:** Section with a "Select File" button. A red box with the letter B highlights this button.
- Certificate Authority:** Text input field.
- Client Certificate:** Text input field with a toggle icon, marked as "Optional".
- Client Key:** Text input field with a toggle icon, marked as "Optional".
- Static Key:** Text input field with a toggle icon, marked as "Optional".
- Certificate Revocation List:** Text input field with an information icon (i), marked as "Optional".

At the bottom right, there are two buttons: "Cancel" and "OK".

Step 3: Enable an OpenVPN client rule.

Enable OpenVPN in the **Server List**. The **Status** field will display **Connected**. The following figure is for reference only.



- If **Status** keeps showing **Connecting**, first, hover your mouse over the icon  to follow the on-screen instructions. If the problem persists, try another **.ovpn** configuration file.
- If multiple **.ovpn** files fail to connect, compare by setting up OpenVPN on a different router, or test manually by installing OpenVPN software on your computer.

Server List						Add	
VPN Type	Description	Server	Status	Enable	Operation		
OpenVPN	Test2	172.16.20.213	Connected	☒	  		

---End

4.3 Use PPTP/L2TP client to access VPN resources

This section uses a computer browser as an example.

Step 1: Turn on VPN Client.

1. Launch a web browser from a computer that is connected to your network.
2. Enter **tendawifi.com**.
A login window displays.
3. Enter the login password.
The password is case-sensitive.
4. Enter the **VPN Client** configuration page (for example, go to **More > VPN > VPN Client**, subject to the actual path).
5. Turn on VPN Client.

Step 2: Add a VPN client rule.

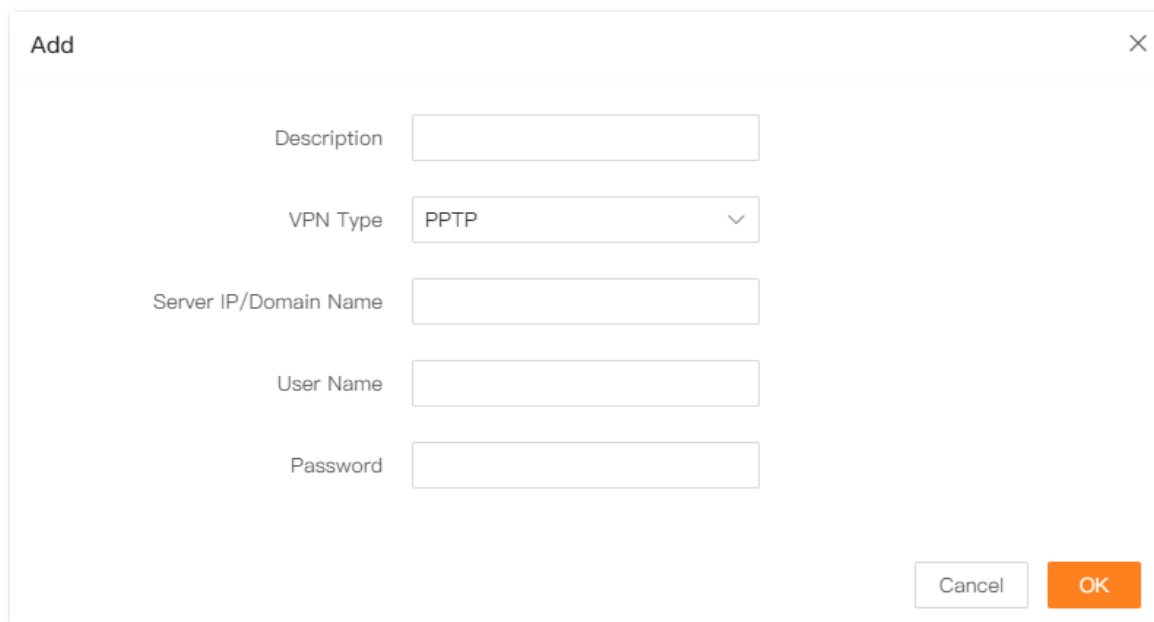
1. Click **Add**.
2. Enter the **Description**.
3. Choose **VPN Type**:
 - To connect to a PPTP VPN server, choose **PPTP** for Client Type.
 - To connect to a L2TP VPN server, choose **L2TP** for Client Type.

4. Enter the VPN **Server IP/Domain Name**.

When a device serves as the PPTP/L2TP server, the domain name or IP address should be that of the WAN port.

5. Enter the VPN **User Name** and **Password** provided by your VPN provider.

6. Click **OK**.



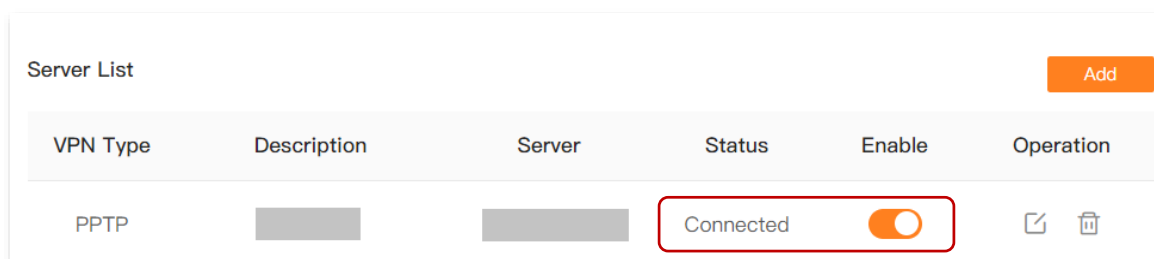
The 'Add' dialog box contains the following fields:

- Description:
- VPN Type:
- Server IP/Domain Name:
- User Name:
- Password:

Buttons: Cancel, OK

Step 3: Enable a VPN client rule.

Enable PPTP or L2TP in the **Server List**. The **Status** field will display **Connected**. The following figure is for reference only.



Server List						Add
VPN Type	Description	Server	Status	Enable	Operation	
PPTP			Connected	☒	 	

---End