



Wireless Router

User Guide

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Preface

Thank you for choosing Tenda! Please read this user guide before you start.

Conventions

This user guide is applicable to the following routers. F6 is used for illustrations here unless otherwise specified. The contained images and UI screenshots are subject to the actual products.

Product model	Description
F6	Wireless N300 Home Router
N301	Wireless N300 Easy Setup Router

Typographical conventions in this User Guide:

Item	Presentation	Example
Cascading Menus	>	Click Status > Device Status
Parameter and value	Bold	Set User Name to Tom .
UI control	Bold	On the Policy page, click the OK button.
Variable	Italic	Format: XX:XX:XX:XX:XX:XX
Message	""	The "Success" message appears.

Symbols in this User Guide:

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

Acronyms and Abbreviations

Acronym or Abbreviation	Full Spelling
DDNS	Dynamic Domain Name System
DHCP	Dynamic Host Configuration Protocol
DMZ	Demilitarized Zone
DNS	Domain Name Server
IPTV	Internet Protocol Television
ISP	Internet Service Provider

Acronym or Abbreviation	Full Spelling
РРР	Point To Point Protocol
РРТР	Point to Point Tunneling Protocol
SSID	Service Set Identifier

Technical Support

If you need more help, contact us by any of the following means. We will be glad to assist you as soon as possible.

	Global: (86) 755-27657180 (China Time Zone)
Č,	United States: 1-800-570-5892 (Toll Free: Daily-9am to 6pm PST)
Hotline	Canada: 1-888-998-8966 (Toll Free: Mon - Fri 9 am - 6 pm PST)
^	Hong Kong: 00852-81931998
Website	
Email	support@tenda.cn

Content

1	At a glance1
	1.1 Overview1
	1.2 Apperance1
	1.2.1 LED indicators1
	1.2.2 Ports and buttons2
	1.2.3 Label2
2	Quick setup3
3	Web UI5
	3.1 Logging in to the web UI5
	3.2 Logging out of the web UI6
	3.3 Web UI layout7
4	Status
	4.1 Internet connection status
	4.2 Online devices and real-time speed9
	4.3 System information10
5	Internet settings11
	5.1 Router mode11
	5.1.1 Setting up an internet connection with PPPoE12
	5.1.2 Setting up an internet connection with dynamic IP13
	5.1.3 Setting up an internet connection with static IP14
	5.2 WISP mode15
	5.3 Universal repeater mode19
	5.4 AP mode
6	Wireless settings
	6.1 Customizing your WiFi name and password28
	6.2 Setting up WiFi schedule
7	Bandwidth control
	7.1 Configuring bandwidth control30
	7.2 Blocking a device
8	Parental controls
	8.1 Overview

	8.2 Setting up a parental controls rule	32
	8.3 Example of configuring parental control	33
9	Advanced	34
	9.1 MAC address filter	34
	9.1.1 Overview	34
	9.1.2 Setting MAC address filter rules	34
	9.1.3 Example of setting a MAC address filter rule	35
	9.2 IP-MAC binding	37
	9.2.1 Configuring an IP-MAC binding rule	37
	9.3 Port forwarding	39
	9.4 DDNS	41
	9.4.1 Overview	41
	9.4.2 An example of configuring DDNS	41
	9.5 DMZ host	44
	9.6 UPnP	45
	9.7 PING WAN	45
10	Administration	46
	10.1 Login password	46
	10.2 WAN parameters	47
	10.3 LAN parameters	49
	10.4 Remote web-based management	50
	10.5 Date & Time	53
	10.6 Device management	54
Арр	endix	59
	A.1 Configuring the computer to obtain an IP address automatically	59
	A.1.1 Windows 8	59
	A.1.2 Windows 7	61
	A.1.3 Windows XP	63
	A.2 Default parameters	65

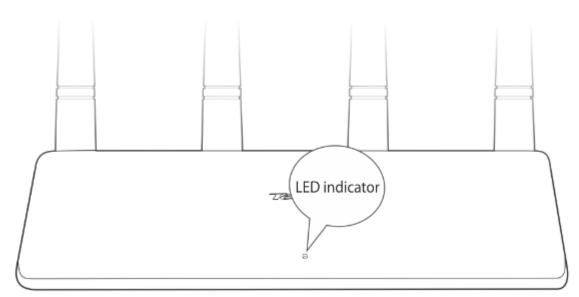


1.1 Overview

Tenda wireless N300 home router is an eco-friendly wireless router dedicated for small and medium apartments. With 4 external 5 dBi antennas and built-in Qualcomm WiFi chip, it works perfectly with popular mobile phones, blanks your home with reliable and stable internet connection. The WISP mode allows you to extend your existing WiFi network with one single step. In addition, the WiFi schedule function helps save power consumption by setting your router to turn on and off the WiFi network regularly.

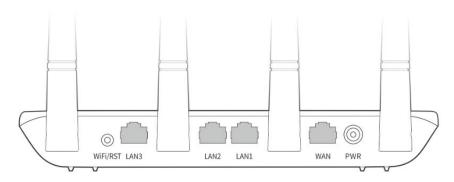
1.2 Apperance

1.2.1 LED indicators



LED indicator	Status	Description
LED indicator	Solid on	The router is starting or connected to the internet successfully.
LAN1/2/3	Slow blinking	The router fails to connect to the internet.
WAN	Fast blinking for 3 seconds	A wired device is connected or disconnected to the router.

1.2.2 Ports and buttons



Button/Port	Description
	WiFi on/off button and reset button.
WiFi/RST	 Hold the button down for 1~3 seconds to turn on or off the WiFi network of the router.
	 Hold the button down for about 8 second, then release when the LED indicator blinks fast. The router is reset successfully.
LAN1/2/3	Used to connect to the wired devices such as computers or switches.
WAN	Used to connect this router to the internet.
PWR	Used to connect to the included power adapter.

1.2.3 Label

The bottom label shows the SSID, login IP address, serial number and MAC address of the router. See the following figures:

Tenda		www.tendacn.com MADEINCHINA
Wireless N300 Home Router Model: F6	MAC	
IP Address: 192.168.0.1 Power: 9V==600mA	SSID	
	S/N	

IP Address: It is the default address used to log in to the web UI of the router.

MAC: It specifies the MAC address of the router.

SSID: It specifies the default WiFi name of the router.

S/N: If there goes something wrong with your device and you need to send it to our technical staff for repair, you will need this sequence number.

2 Quick setup

This chapter introduces how to set up to the router quickly to access the internet for the first time.

Step 1 Connect your router.

- **1.** Power on the router using the power adapter included in the package.
- 2. Use an Ethernet cable to connect an Ethernet jack or a LAN port of your modem to the WAN port of the router.
- **3.** Either connect your computer to a LAN port of the router, or connect your WiFi-enabled device, such as a smart phone, to the default WiFi name (SSID) of the router.

The default SSID is on the bottom label of the router.	

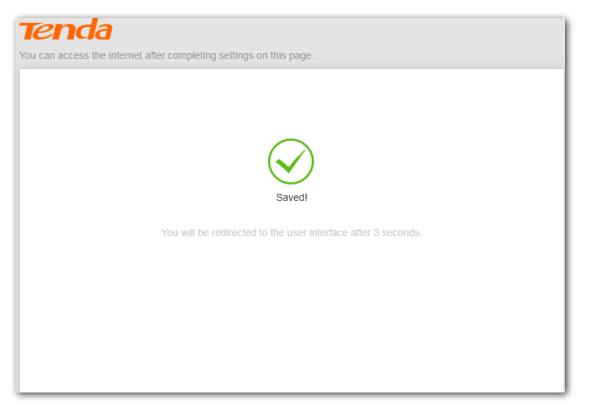
- **Step 2** Set up the router. (Here we use a computer to set up the router)
 - 1. Start a web browser on the computer that has connected to the router, and visit **tendawifi.com** or **192.168.0.1**.

Login	× +			X
← → C	tendawifi.com	07	•	:

- 2. The router detects your connection type automatically. Set the parameters based on the detection result, PPPoE is used for instructions.
 - User Name: Enter the user name provided by your ISP.
 - Password: Enter the password provided by your ISP.
- 3. Customize the WiFi Name and WiFi Password, and click OK.

	As detected	d, your connection type is:PPPoE
Internet	Connection Type	PPPoE Dynamic IP Address Static IP Address This type is applicable if you have a user name and password for setting up a broadband dial-up connection. You can import them from your original router.
	User Name	User Name from ISP
	Password	Password from ISP
	WiFi Name	Tenda_F00B10
Wireless	WiFi Password	8 or more characters

It displays as the following figure, and it will be redirected to the home page in 3 seconds.

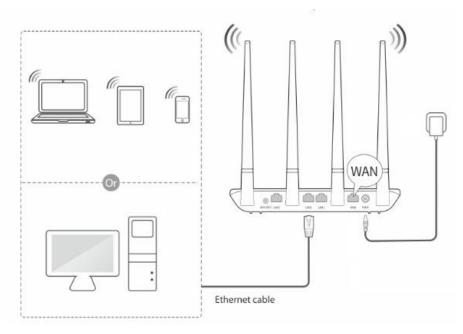


To access the internet, connect wireless devices to the WiFi network of the router again using the WiFi name and password you set, and connect your wired devices to port LAN1/2/3.



3.1 Logging in to the web UI

Step 1 Connect your smartphone to the wireless network, or connect your computer to ports LAN1/2/3 of the router.



Step 2 Start a web browser on the device connected to the router, visit **tendawifi.com** or 192.168.0.1.



The following page appears.

Tenda						English -	Logou
M Status	Internet Connection Status		111				
 Internet Settings Wireless Settings 	Internet	Connected	My Router]	- Devices		
Bandwidth Control	Connected. You can		my router		Devices		
A Parental Controls	Online Devices and Real-Ti	me Speed					
Advanced	1		0	Kbps			
ô Administration		vices	Downlo	ad Speed	⊥ Upload S	peed	
	System Information						
	Connection Type	Dynamic IP Address		WAN IP Address	192.168.20.237		
	Connection Duration	28m 31s		Subnet Mask	255.255.255.0		
	MAC Address	C8:3A:35:F0:0B:10		Default Gateway	192.168.20.100		

₽

If the above page doesn't appear, verify the computer is obtaining an IP address automatically, refer to appendix A configuring the computer to obtain an IP address automatically.

3.2 Logging out of the web UI

If you log in to the web UI of the router and perform no operation within 5 minutes, the router logs you out automatically. You can log out by clicking **Logout** on the upper right corner of the web UI as well.

3.3 Web UI layout

The web UI of the router consists of two sections, including the navigation bar and the configuration area. See the following figure:

Tenda					English -
				2	
		WiFi Nar	ne and Password	2	
M Status		2.4 GHz	Network	enable O Disable	
Internet Settings	s	WiFi Na	me	Tenda_F011A0	Hide WiFi (?)
≈ Wireless Se		Security	Mode	WPA/WPA2-PSK Mixed	
Bandwidth Control		WiFi Pa	ssword		
🚖 Parental Contro	A Parental Controls		edule		
Advanced		WiFi Scl	nedule	 Enable Disable 	
Section Administration		Wireless	Parameters		
		2.4 GHz	Network		
		Network	Mode	11b/g/n 🔻	
		Wireless	Channel	Auto	Current Channel:3
		Wireless	Bandwidth	20/40 🔹	Current bandwidth:20MHz
f ¥					OK Cancel
SN	Name		Description		
1	1 Navigation bar				ne router. Users can select functions in on appears in the configuration area.
2 Configuration area		Used to modi	fy or view your configurat	ion.	



Log in to the web UI of the router and choose **Status** to enter the page. On this page, you can view the internet connection status of the router, online devices information and system information of the router.

4.1 Internet connection status

When "connected. You can access the internet" message shows on the page, which means you can access the internet through the router.

	nected	
Internet	My Router	Devices

■ When a red cross × appears, the router cannot access the internet. Please follow the onscreen instruction to resolve the issue.

ternet Connection Status	Disconnected			
Internet		My Router	Devices	
Error: No response fr	rom the remote server.	Please contact your ISP.		

4.2 Online devices and real-time speed

This section displays the number of online devices, and the real-time upload/download speed.



To control the bandwidth of online devices, click ^{Coonline Devices} to enter the configuration page.

	Online Devices(1)					
Status	Device Name	Download Speed	Upload Speed	Download Limit	Upload Limit	Internet Access
Internet Settings	MININT-K1N	_ 0KB/s	↑ 0KB/s	No limit 👻	No limit 👻	Local
🔶 Wireless Settings	192.168.0.100	ţ UKUIS	01013	Nomin	No min	Local
Bandwidth Control	Blacklisted Devices					
🚖 Parental Controls	Device Name	MAG	C Address	ι	Inlimit	
Ø Sleeping Mode	No device					

4.3 System information

This section displays the basic information of the router, including connection type, connection duration, WAN IP and so on.

System Information			
Connection Type	Dynamic IP Address	WAN IP Address	192.168.20.162
Connection Duration	13m 10s	Subnet Mask	255.255.255.0
WAN MAC Address	C8:3A:35:84:28:30	Default Gateway	192.168.20.100
LAN IP Address	192.168.0.1	Preferred DNS Server	192.168.20.100
Firmware Version	V02.03.01.22_cn	Alternate DNS Server	0.0.0.0

Parameter Description:

Parameter	Description
Connection Type	It displays the current connection type of the router.
Connection Duration	It specifies the time that has elapsed since the router connects to the internet successfully.
WAN MAC Address	It specifies the MAC address of the WAN port of the router.
LAN IP Address	It specifies the IP address of the LAN port for the router.
Firmware Version	It specifies the current version number of the router's firmware.
WAN IP Address	It specifies the IP address of the WAN port.
Subnet Mask	It specifies the subnet mask of the WAN port.
Default Gateway	It specifies the default gateway of the WAN port.
Preferred DNS Server	It displays the preferred DNS server address of the WAN port.
Alternate DNS Server	It displays the Alternate DNS server address of the WAN port. If you do not set this parameter, it shows 0.0.0.0 .

5 Internet settings

If you do not complete the internet settings by the quick setup wizard, or want to change the internet settings, you can configure it on this page. The router supports Router, WISP, Universal Repeater and AP mode. By default, the router works in router mode.

5.1 Router mode

In router mode, this router can connect to the internet through the WAN port, and provides both wired and wireless network for clients. It applies to the scenario showing as below:



The following table may help you understand your internet connection type. If you are still uncertain about your internet connection type, consult your ISP.

Parameter	Description
ΡΡΡΟΕ	If you directly connect an Ethernet cable with internet connectivity to your computer, you can access the internet only after setting up a dial-up connection on the computer using a user name and password provided by your ISP.
Dynamic IP	If you directly connect an Ethernet cable with internet connectivity to your computer, you can access the internet without configuring your computer.
Static IP Address	If you can access the internet only after setting static IP address and other related information on your computer, your connection type is static IP address.

5.1.1 Setting up an internet connection with PPPoE

- **Step 1** Choose **Internet Settings** to access the page.
- **Step 2** Set **Operating Mode** to **Router**.
- **Step 3** Set **Connection Type** to **PPPoE**.
- **Step 4** Enter **User Name** and **Password** provided by your ISP.
- Step 5 Click OK at the bottom of the page.

Operating Mode	
● Router ○ WISP ○ I	Jniversal Repeater 💿 AP
In this mode, the router co access the internet.	nnects to an ISP in a wired manner and meanwhile provides WiFi signals, enabling clients to wirelessly
Internet Connection	
Connection Type	PPPoE O Dynamic IP Address O Static IP Address
	This type is applicable if you have a user name and password for setting up a broadband dial-up connection.
User Name	User Name from ISP
Password	Password from ISP

----End

After the settings take effect, check the connection status, if "**Connected. You can access the internet.**" is displayed, the router is connected to the internet successfully.

Operating Mode					
Router WISP Universal Repeater AP In this mode, the router connects to an ISP in a wired manner and meanwhile provides WiFi signals, enabling clients to wirelessly access the internet.					
Internet Connection					
Connection Type	PPPoE Dynamic IP Address Static IP Address This type is applicable if you have a user name and password for setting up a broadband dial-up connection.				
User Name	admin				
Password	•••••				
Connection Status	Connected. You can access the internet.				

5.1.2 Setting up an internet connection with dynamic IP

- **Step 1** Choose **Internet Settings** to access the configuration page.
- **Step 2** Set **Operating Mode** to **Router**.
- **Step 3** Set Connection Type to **Dynamic IP Address**.
- **Step 4** Click **OK** at the bottom of the page.

Operating Mode	
● Router ○ WISP ○ (Universal Repeater 🔍 AP
In this mode, the router co access the internet.	onnects to an ISP in a wired manner and meanwhile provides WiFi signals, enabling clients to wirelessly
Internet Connection	
Connection Type	PPPoE Dynamic IP Address Static IP Address
	This type is applicable if no account or static IP address is required for setting up an internet connection.

----End

After the settings take effect, you can check the connection status, if "**Connected. You can access the internet.**" is displayed, the router is connected to the internet successfully.

Internet Connection		
Connection Type	PPPoE Opnamic IP Address Static IP Address	
	This type is applicable if no account or static IP address is required for setting up an internet connection.	
Connection Status	Connected. You can access the internet.	

5.1.3 Setting up an internet connection with static IP

- **Step 1** Choose **Internet Settings** to access the configuration page.
- **Step 2** Set **Operating Mode** to **Router**.
- **Step 3** Set **Connection Type** to **Static IP Address**.
- **Step 4** Set the required parameters provided by your ISP.
- **Step 5** Click **OK** at the bottom of the page.

	This type is applicable if a static IP address is required for setting up an internet connection.
IP Address	
Subnet Mask	
Default Gateway	
Preferred DNS	
Alternate DNS	(Optional)

----End

After the settings take effect, you can check the connection status, if "**Connected. You can access the internet.**" is displayed, the router is connected to the internet successfully.

Internet Connection	
Connection Type	PPPoE Dynamic IP Address Static IP Address This type is applicable if a static IP address is required for setting up an internet connection.
IP Address	192 . 168 . 20 . 155
Subnet Mask	255 . 255 . 255 . 0
Default Gateway	192 . 168 . 20 . 100
Preferred DNS	192 . 168 . 20 . 100
Alternate DNS	(Optional)
Connection Status	Connected. You can access the internet.

5.2 WISP mode

In WISP mode, this router can connect to a WiFi hotspot provided by ISP in wireless manner, and provide both wireless and wired network for clients to access internet access.

Choose Internet Settings to access the configuration page.

```
Operating Mode

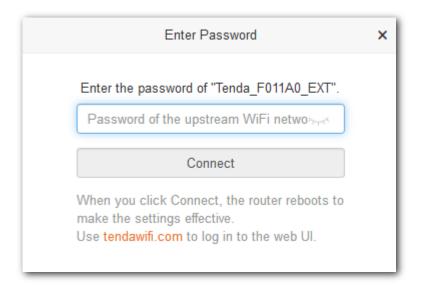
Note: Operating Mode
Nulse: Operating Content of the second second
```

Configuration procedure:

- **Step 1** Choose **Internet Settings** to access the configuration page.
- Step 2 Set Operating Mode as WISP.
- **Step 3** Select the **Connection Type** of your WiFi hotspot and enter the related parameters as required.
- **Step 4** Select the WiFi name to connect.

Operating Mode						
Router ● WISP ● Universal Repeater ● AP In this mode, the router extends the WiFi signals of ISPs like CMCC, China Unicom, and ChinaNet.						
Internet Connection						
Connec	tion Type	PPPoE Dynamic IP Address	Static IP Ad	dress		
		This type is applicable if no account internet connection.	or static IP addr	ess is required for setting	up an	
Select V	WiFi Network 🔿					
Select	WiFi Name	MAC Address	Channel	Security Mode	Strength	
0	000-cyl-ac9	d8:32:14:4c:cb:71	1	WPAWPA2/AES	奈 96%	
0	Tenda_F011A0_EXT	c8:3a:35:db:40:e4	2	WPAWPA2/AES	奈 92%	

Step 5 If the wireless network of the upstream device is encrypted, enter the password of the upstream WiFi network.



Step 6 Click **Connect** and wait for the router to reboot.

Reboot	
Rebooting 3%	

----End

Wait until the progress bar is complete. Log in to the web UI of the router again. Choose **Status** > **Internet Connection Status** to check the connection status.

An example of configuring WISP mode

Application scenario

Tom lives in countryside, and it is not convenient for him to connect the nearest ISP base station using Ethernet cables. He uses a router F6 to extend wireless signal in his apartment. And the WISP mode of the router can meet the requirement.

Tom's ISP provides a hotspot for internet with the information below:

- SSID: ISP_A
- WiFi password: 87654321
- PPPoE user name: Tom
- PPPoE password: Tom123

Network topology



Configuration procedure:

- **Step 1** Choose **Internet Settings** to access the page.
- **Step 2** Set **Operating Mode** to **WISP.**
- **Step 3** Select the **Connection Type** of your ISP hotspot, which is **PPPoE** in this example. Enter the PPPoE user name and password provided by your ISP, which is **Tom/Tom123** in this example.
- **Step 4** Choose the ISP hotspot, which is **ISP_A** in this example.

Operatir	Operating Mode						
Rout	◎ Router						
In this r	In this mode, the router extends the WiFi signals of ISPs like CMCC, China Unicom, and ChinaNet.						
Internet	Internet Connection						
Connec	tion Type	● PPPoE ()) Dynamic IP Address () Static IP Ad	dress		
			applicable if you have a us al-up connection.	er name and p	bassword for setting up a		
User Na	ame	Tom					
Passwo	ord	•••••	بىر	~			
Select V	ViFi Network 🕒						
Select	WiFi Name		MAC Address	Channel	Security Mode	Strength	
\odot	1.2-2.4		d8:38:0d:7f:80:12	8	None	 \$90%	
0	1-2.4		d8:38:0d:7f:80:11	8	None	? 90%	
۲	ISP_A		c8:3a:35:db:40:e4	11	WPAWPA2/AES	© 88%	

Step 5 Enter the password of the WiFi network **ISP_A**, which is **87654321** in this example.

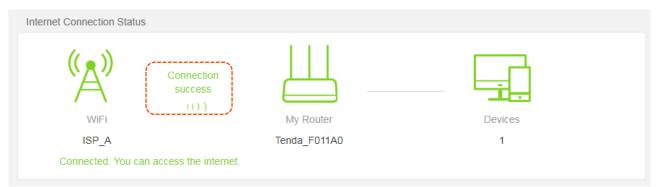
	Enter Password		×
	Enter the password of "ISP_A".		
(87654321]	
	Connect		
	When you click Connect, the router reboots to nake the settings effective.		

Step 6 Click Connect.

Reboot
Rebooting 10%

----End

Wait until the progress bar is complete. Log in to the web UI of the router again with the domain name **tendawifi.com**. Choose **Status** > **Internet Connection Status** to check the connection status.



You can check the SSIDs for this router and the upstream device, if you need to change the router's SSID and password, please go to the <u>Wireless Settings</u> page to do settings.

5.3 Universal repeater mode

In universal repeater mode, the router can bridge the upstream wireless signals and expand your wireless network coverage.

Choose Internet Settings to access the configuration page.

```
Operating Mode

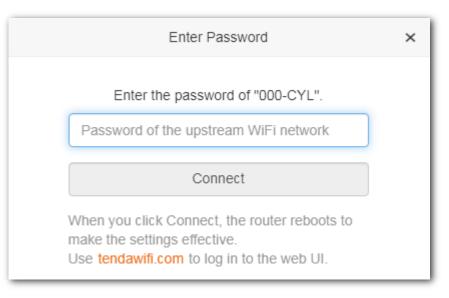
Operating Mode
In this mode, the router connects to an ISP in a wired manner and meanwhile provides WiFi signals, enabling clients to wirelessly access the internet.
```

Configuration procedure

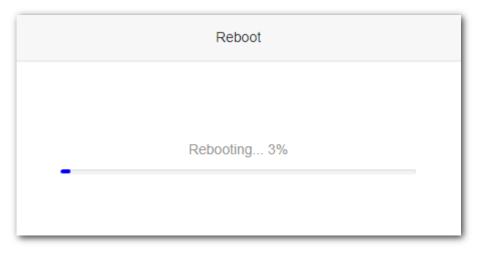
- **Step 1** Choose **Internet Settings** to access the configuration page.
- **Step 2** Set **Operating Mode** as **Universal Repeater**.
- Step 3 Select the WiFi name to be extended.

Operating Mode							
Router WISP Universal Repeater AP							
In this mode, the router can extend any WiFi signals.							
Select V	ViFi Network 😋						
Select	WiFi Name	MAC Address	Channel	Security Mode	Strength		
Select	WiFi Name 0124	MAC Address 50:28:73:F0:3A:08	Channel 11	Security Mode	Strength \$ 97%		
					-		

Step 4 If the wireless network of the upstream device is encrypted, set the password of the upstream WiFi network.



Step 5 Click **Connect** and wait for the router to reboot.



----End

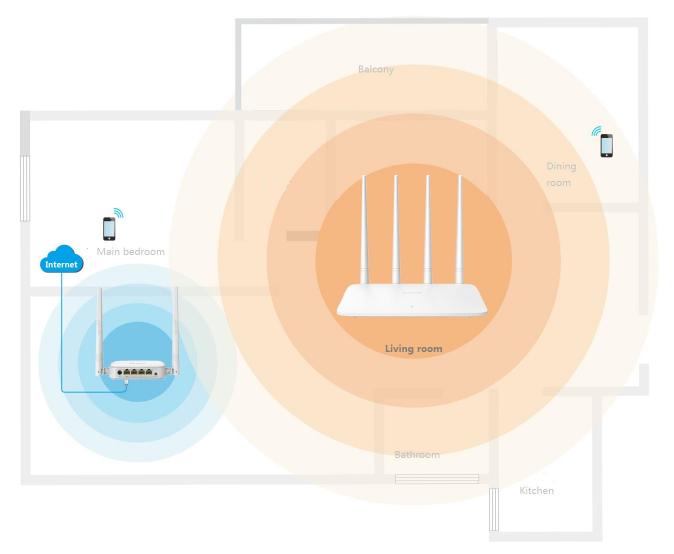
Wait until the progress bar is complete. Log in to the web UI of the router again. Choose **Status** > **Internet Connection Status** to check the connection status.

An example of configuring universal repeater mode

Application scenario

Tom uses a wireless router (main router) for internet access in his apartment. The router is placed in the main bedroom. The WiFi signal is strong in the main bedroom, but too poor in dining room and balcony to access the internet. For better connection, Tom uses a Tenda F6 router placed in the living room to extend the WiFi network coverage.

The universal repeater mode of F6 can meet the requirement.



Asumption

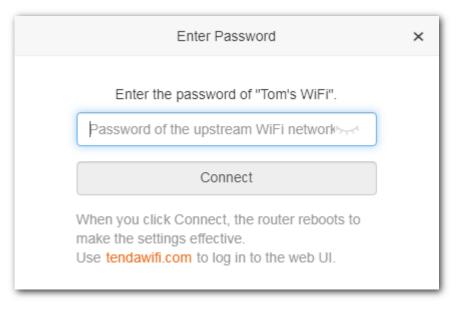
- SSID of the main router: Tom's WiFi
- WiFi password of the main router: 12345678
- WiFi security mode of the main router: WPA/WPA2-PSK Mixed

Configuration procedure

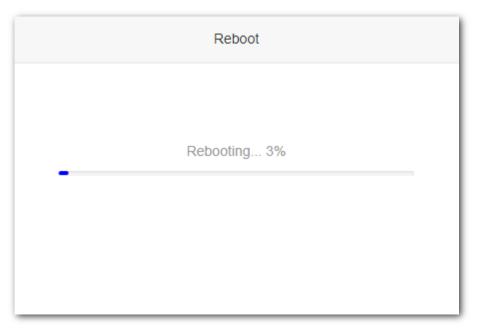
- **Step 1** Choose **Internet Settings** to access configuration the page.
- **Step 2** Set **Operating Mode** to **Universal Repeater.**
- **Step 3** Select the WiFi name to be extended, which is **Tom's WiFi** in this example.

Operatir	.g					
Router WISP Universal Repeater AP						
In this r	node, the router can extend a	ny WiFi signals.				
in the mode, the reaction can externa any thir reignate.						
0-1						
Select V	ViFi Network <mark>O</mark>					
Select V Select	ViFi Network 🔿 WiFi Name	MAC Address	Channel	Security Mode	Strength	

Step 4 Enter the password of the selected WiFi network, which is **12345678** in this example.



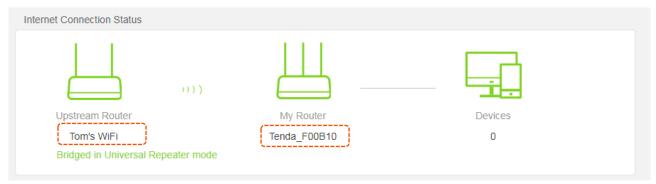
Step 5 Click **Connect**.



----End

Wait until the progress bar is complete. Log in to the web UI of the router again with the domain name **tendawifi.com**. Choose **Status** > **Internet Connection Status** to check the connection status and the SSIDs for this router and the upstream device.

To change the router's SSID and password, please go to the Wireless Settings page to do settings.

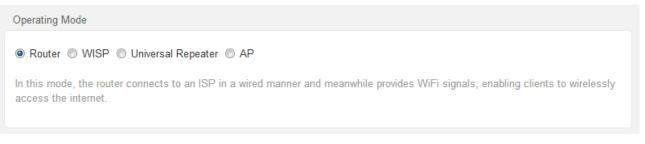


5.4 AP mode

In AP mode, the router connects to the internet using an Ethernet cable and converts wired network into wireless network to provide wireless network coverage. In AP mode, the WAN port also serves as a LAN port. It applies to the scenario showing as below:



Choose Internet Settings to access the configuration page.

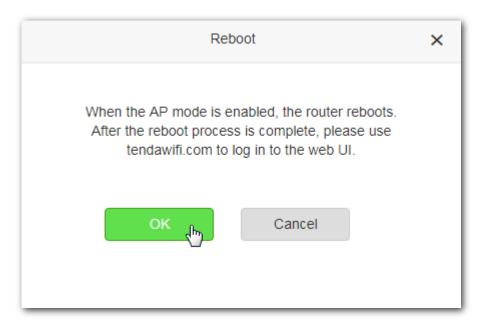


Configuration procedure

- **Step 1** Connect a LAN port of the router to a LAN port of the upstream device which is connected to the internet successfully.
- **Step 2** Choose **Internet Settings** to access the configuration page.
- **Step 3** Set **Operating Mode** as **AP**, and click **OK** at the bottom of the page.



Step 4 Click **OK** in the popup window.



----End

When the router completes rebooting, the computer connected to the router by an Ethernet cable can access the internet, and wireless device such as smart phones can connect to the WiFi network of the router to access the internet.

- In AP mode, the router's network settings, VPN, parental controls, bandwidth control, virtual server and other functions will be available.
- In AP mode, the router's LAN IP address changes automatically to be in the same segment of the upstream device. You can log in to the web UI of the router with **tendawifi.com** instead of **192.168.0.1**.

6 Wireless settings

This module enables you to customize a WiFi name and password, hide your WiFi network so that the wireless clients cannot detect the WiFi name, set up a WiFi schedule to turn on/off your WiFi network regularly, and modify wireless parameters.

Click Wireless Settings to enter the configuration page.

	WiFi Name and Password		
M Status	2.4 GHz Network	Enable O Disable	
Internet Settings	WiFi Name	Tenda_F00B10	Hide WiFi (?)
	Security Mode	None	
Ø Bandwidth Control	WiFi Schedule		
☆ Parental Controls	WiFi Schedule	Enable Disable	
Advanced	Wireless Parameters		
袋 Administration	2.4 GHz Network		
	Network Mode	11b/g/n 🔻	
	Wireless Channel	Auto	Current Channel:7
	Wireless Bandwidth	20/40 •	Current bandwidth:20MHz
	Anti-interference	Enable If there are many wireless netw improve the anti-interference capability	orks nearby, you can enable this function to of the router.

Parameter description

Parameter		Description		
	2.4 GHz Network	Used to enable/disable the wireless network of the router.		
	WiFi Name	It specifies the wireless network name (SSID) of the WiFi network		
	Security Mode	It specifies the encryption modes supported by the router, including:		
WiFi Name and Password		 None: It indicates that a wireless network is not encrypted and any clients can access the network without a password. This option is not recommended as it leads to low network security. 		
		 WPA-PSK: It indicates that WPA-PSK is adopted to authenticate users. 		
		 WPA2-PSK: It indicates that WPA2-PSK is adopted to authenticate users. 		

Parameter		Description		
		 WPA/WPA2-PSK Mixed: It indicates that WPA-PSK and WPA2-PSK are adopted to authenticate users. 		
	WiFi Password	Password used for wireless network connection. You are recommended to use the combination of digits, letters and special characters for higher security.		
		Selecting None indicates that wireless clients can connect to the wireless network without entering a password. Select this option only when necessary since it leads to weak network security.		
	Hide WiFi	With this function enabled, wireless clients cannot detect the SSID, and you need to manually enter the SSID on the wireless client to access the wireless network. By default, this function is disabled.		
	WiFi Schedule	Used to enable/disable the WiFi schedule function of the router.		
WiFi Schedule	Turn WiFi Off At	It specifies the time period to turn off WiFi. 00:00~00:00 indicates a whole day.		
	Turn WiFi Off On	It specifies the date to turn off WiFi.		
	Network Mode	Used to select a network mode of 2.4 GHz WiFi network.		
		• 11b : It enables the wireless clients supporting 802.11b to connect to the WiFi network.		
		• 11g : It enables the wireless clients supporting 802.11g to connect to the WiFi network.		
		• 11b/g : It enables the wireless clients supporting 802.11b or 802.11g to connect to the WiFi network.		
		• 11b/g/n : It enables the wireless clients supporting 802.11b, 802.11g or 802.11n to connect to the WiFi network.		
Wireless	Wireless Channel	It specifies the channel in which the router operates. Select one idle channel in the ambient environment to reduce interference.		
Parameters		Auto indicates that this device automatically changes to a channel rarely used in the ambient environment to reduce interference.		
		Select the wireless bandwidth.		
	Wireless Bandwidth	• 20 : 20MHz channel bandwidth.		
		• 40 : 40MHz channel bandwidth.		
		• 20/40 : It specifies that a router can switch its channel bandwidth between 20 MHz and 40 MHz based on the ambient environment.		
	Anti-	It specifies whether to enable the anti- interference function.		
	interference	You can enable this function to improve the anti-interference capability of the router if there are many wireless networks nearby.		

6.1 Customizing your WiFi name and password

- **Step 1** Click **Wireless Settings** to enter the page, and locate to **WiFi Name and Password** module.
- Step 2 Customize your WiFi name, such as Tenda WiFi.
- **Step 3** Set **Security Mode** to **WPA/WPA2-PSK Mixed** for better security and compatibility.
- **Step 4** Specify your WiFi Password, such as **123456789**.
- Step 5 Click OK at the bottom of the page.

WiFi Name and Password			
2.4 GHz Network	Enable O Disable		
WiFi Name	Tenda WiFi		Hide WiFi (?)
Security Mode	WPA/WPA2-PSK Mixed	•	
WiFi Password		<u>ک</u> برہ	

----End

When the configuration is completed, you need to re-connect to the new WiFi network with your wireless devices using the new password.

6.2 Setting up WiFi schedule

- **Step 1** Choose **Wireless Settings** to enter the page, and move to **WiFi Schedule** module.
- **Step 2** Set **WiFi Schedule** to **Enable**.
- **Step 3** Specify a time period to turn off WiFi network.
- **Step 4** Choose the specified date to turn off WiFi network.
- **Step 5** Click **OK** at the bottom of the page.

WiFi Schedule	
WiFi Schedule	💽 Enable 🔘 Disable
Turn WiFi Off At	
Turn WiFi Off On	🔲 Everyday 🖉 Mon. 🖉 Tue. 🖉 Wed. 🖉 Thu. 🖉 Fri. 🔲 Sat. 🔲 Sun.

 E	n	d

7 Bandwidth control

In this section, you are allowed to view on-line device(s), block unknown device(s), and set maximum download/upload speed for online devices.

Click **Bandwidth Control** to enter the configuration page.

	Online Devices(2)					
₩ Status	Device Name	Download Speed	Upload Speed	Download Limit	Upload Limit	Internet Access
Internet Settings	? MININT-K1N 🖉					
	192.168.0.100 74:27:ea:69:80:04	↓ 0Kbps	↑ 0Kbps	No limit 🝷	No limit 🔻	Local
Bandwidth Control	MI8-xiaomish 2	1 OKbps	↑ 0Kbps	No limit 👻	No limit 💌	
🚖 Parental Controls	d8:ce:3a:8f:71:24					
Advanced	Blacklisted Devices					
දිදු Administration	Device Name	MAC Address		ι	Jnlimit	
	No device					

Parameter Description:

Parameter		Description		
	Device Name	It displays the information of the online device, including device name, IP address and MAC address. You can click 🖉 to customize the device name for convenient management.		
	Download/Upload Speed	It specifies the current upload and download speeds of the corresponding device.		
Online Devices	Upload/Download Limit	It allows you to specify a maximum upload/download speed for the corresponding device.		
	Internet Access	It allows you to allow/disallow the corresponding device to access the internet through the router. The current management computer cannot be controlled.		
		 It indicates that the device is able to access the internet. It indicates the device is unable to access the internet. 		
	Device Name	It specifies the device name of a blocked device.		
Blacklisted Devices	MAC Address	It specifies the MAC address of a blocked device.		
	Unlimit	Used to remove a blocked device from the blacklist. After being removed from the blacklist, the device can reconnect to the router for internet access.		

7.1 Configuring bandwidth control

- **Step 1** Click **Bandwidth Control** to enter the configuration page.
- **Step 2** Specify **Download/Upload Limit** as required.
- **Step 3** Click **OK** at the bottom of the page.

----End

7.2 Blocking a device

- **Step 1** Click **Bandwidth Control** to enter the configuration page.
- **Step 2** Click \bigcirc corresponded to the device to be blocked to change the status to \bigcirc .

Onlin	e Devices(2)					
Device	e Name	Download Speed	Upload Speed	Download Limit	Upload Limit	Internet Access
?	MININT-K1N 192.168.0.100 74:27:ea:69:80:04	↓ 0Kbps	↑ OKbps	No limit 💌	No limit 💌	Local
?	MI8 192.168.0.101 d8:ce:3a:8f:71:24	↓ 0Kbps	↑ OKbps	No limit 🔻	No limit •	-

Step 3 Click **OK** at the bottom of the page.

---End

The blocked device is displayed automatically in the blacklist.

Blacklisted Devices		
Device Name	MAC Address	Unlimit
MI8	D8:CE:3A:8F:71:24	Unlimit

8 Parental controls

8.1 Overview

The parental controls function allows you to block inappropriate and malicious websites, and control online devices to access what websites at what time.

Choose Parental Controls to enter the configuration page.

	Online Devices			
₩ Status	Device Name	IP Address	Online Duration	Manage
Internet Settings	MININT-K1N741G	192.168.1.100	5m 39s	\bigcirc
Bandwidth Control	Access Restrictions			
A Parental Controls	Settings below will be applied to Allow access during	o all managed devices		
Advanced	Repeat	Everyday Mon. Tue. Wed	. 🔲 Thu. 🖉 Fri. 🖉 Sat. 🔲 Sun.	
袋 Administration	Website Restrictions	Disable		

Parameter Description:

Parameter		Description
	Device Name	It specifies the name of the online device. You can click $\overset{\checkmark}{\sim}$ to customize the device name for convenient management.
Online	IP Address	It specifies the IP address of the online device.
Devices	Online Duration	It specifies the time that has elapsed since the device connects to the router successfully.
	Manage	It specifies the status of a rule. You can enable/disable the rule by switching the button.
	Allow access during	It specifies the time period for the clients to access the internet.
	Repeat	It specifies the date for the clients to access the internet.
Access		It specifies the mode of website restrictions.
Restrictions		• Disable: It specifies all websites are accessible.
	Website Restrictions	• Only Permit: If this option is selected, only the websites listed in Unblocked Websites are accessible.
		• Only Forbid: If this option is selected, only the websites listed in Blocked Websites are inaccessible.

8.2 Setting up a parental controls rule

Configuration procedure:

₽TIP

A parental controls rule takes effect based on the IP address. Thus, to ensure that the rule takes effect correctly, you had better use the IP-MAC binding function to bind an IP address to the device you want to control. Refer to <u>IP-MAC binding</u> for details.

- **Step 1** Choose **Parental Controls** to enter the configuration page.
- Step 2 Set the button O to State.
- **Step 3** Set the period at which the rule takes effect.
- **Step 4** Set the date on which the rule takes effect.
- **Step 5** Select a **Website Restrictions** mode, and set the websites allowed or disallowed to visit.

dress 68.0.100 es • ~ 21 • 00 •	Online Duration 3h 43m 3s	Manage
25		
• ~ 21 • : 00 •		
Mon. 🔲 Tue. 🔲 Wed	d. 🔲 Thu. 🖉 Fri. 🖉 Sat. 🔲	Sun.
•	•	
	(\pm)	

8.3 Example of configuring parental control

Tom uses F6 to set up a network in his apartment. He wants his daughter Sindy to focus on her homework from 20:00 to 22:00 instead of YouTube video on weekdays.

The parental controls function can meet this requirement.

Configuration procedure:

Step 1 Choose **Parental Controls** to enter the configuration page.

Step 2	Click 🔘 to the	state 🔍	corresponding to s	Sindy's phone.	
	Online Devices				
	Device Name		IP Address	Online Duration	Manage
	MININT-K1N741G	R	192.168.1.100	1h 13m 19s	\bigcirc
	Sindy's phone	R	192.168.1.101	2m 16s	

- **Step 3** Set **Allow access during** to the period when the device is allowed to access video websites, which is **20:00-22:00** in this example.
- **Step 4** Set the date on which the rule takes effect, which is Monday to Friday in this example.
- **Step 5** Set **Website Restrictions** to **Only Forbid**.
- **Step 6** Set **Blocked Websites** to **www.youtube.com**, and click $\stackrel{\bigoplus}{=}$.

Access Restrictions	
Settings below will be applied to	all managed devices
Allow access during	
Repeat	📄 Everyday 🗹 Mon. 🖉 Tue. 🖉 Wed. 🖉 Thu. 🖉 Fri. 🔲 Sat. 🔲 Sun.
Website Restrictions	Only Forbid
Blocked Websites	Enter website (+)
	1 www.youtube.com

Step 7 Click **OK** at the bottom of the page.

----End

After the settings take effect, Sindy's smart phone cannot access YouTube from 20:00 to 22:00 on weekdays.



9.1 MAC address filter

9.1.1 Overview

This function allows you to set a MAC address whitelist or a MAC address blacklist to enable or disable users to access the internet through the router.

Choose Advance and move to MAC Address Filter module to access the configuration page.

MAC Address Filter		
Filter Mode	Blacklist (Disallow only listed MAC addresses.)	
	Whitelist (Allow only listed MAC addresses.)	
Blacklisted MAC Address	Remark (Optional)	Operation
		\oplus

Parameter Description:

Parameter	Description	
Filter Mode	• Blacklist : The users with listed MAC addresses are not allowed to access the internet.	
	 Whitelist: The users with listed MAC addresses are allowed to access the internet. 	
Blacklisted/Whitelisted MAC Address	It specifies the MAC addresses to which a rule applies.	
Remark	It specifies the description of a rule. This parameter is optional.	
Operation	\oplus : Click it to add a device into blacklist/whitelist. \bigcirc : Click it to delete a device from the blacklist/whitelist.	

9.1.2 Setting MAC address filter rules

Adding a rule

- **Step 1** Choose **Advanced** to enter the configuration page, and move to **MAC Address Filter** module.
- Step 2 Select a Filter Mode.
- **Step 3** Enter MAC address to which the rule applies.
- **Step 4** Enter remark information, which is optional.

Step 5 Click \oplus .

Step 6	Click OK on the botto	om of the page.	
	MAC Address Filter		
	Filter Mode	 Blacklist (Disallow only listed MAC addresses.) Whitelist (Allow only listed MAC addresses.) 	
	Blacklisted MAC Address	Remark (Optional)	Operation
			(\neq)

----End

Delete a rule

- **Step 1** Click **Advanced** to enter the configuration page, and move to **MAC Address Filter** module.
- **Step 2** Click \bigcirc corresponding to the MAC address filtering rule to be deleted.
- Step 3 Click OK.

MAC Address Filter		
Filter Mode	 Blacklist (Disallow only listed MAC addresses.) Whitelist (Allow only listed MAC addresses.) 	
Blacklisted MAC Address	Remark (Optional)	Operation
		(+)
8C:0D:76:E8:43:15		\ominus

----End

9.1.3 Example of setting a MAC address filter rule

A family uses F6 to access the internet. Recently an unknown device is found in the **Online Device** list. Then the MAC address filter function can be used to disallow the unknown device to connect to the WiFi network of the router for internet access.

Assume that the MAC addresses of the unknown device is D8:CE:3A:8F:71:24.

Configuration procedure:

- Step 1 Choose Advanced > MAC Address Filter.
- **Step 2** Set Filter Mode to Blacklist.
- **Step 3** Enter the MAC address to be disallowed to access the internet, which is **D8:CE:3A:8F:71:24** in this example.
- **Step 4** Enter the remark information of the device, which is **Unknown device** in this example.
- Step 5 Click \oplus .
- **Step 6** Click **OK** at the bottom of the page.

MAC Address Filter		
Filter Mode	 Blacklist (Disallow only listed MAC addresses.) Whitelist (Allow only listed MAC addresses.) 	
Blacklisted MAC Address	Remark (Optional)	Operation
		(+)
D8:CE:3A:8F:71:24	Unknown device	\bigcirc

----End

After you complete the settings, the unknown device cannot connect to the WiFi network to access the internet.

9.2 IP-MAC binding

The IP-MAC Binding function enables clients to obtain a fixed IP address, to ensure that the IP address-based functions, such as port forwarding, DMZ host and other functions of the router can take effect properly. This function is only effective when the DHCP server of the router is enabled.

Choose Advanced, and move to IP-MAC Binding module to access the configuration page.

IP-MAC Binding		
IP Address	MAC Address	Operation
		\oplus

Parameter Description:

Parameter	Description
IP Address	It specifies the IP address to be reserved for the client with the specified MAC address. It should be belong to the DHCP address pool.
MAC Address	It specifies the MAC address of the client that needs a fixed IP address.
Operation	 : It is used to add an IP-MAC binding rule. : It is used to delete an IP-MAC binding rule.

9.2.1 Configuring an IP-MAC binding rule

Adding a rule

- **Step 1** Choose **Advanced** to enter the configuration page, and move to **IP-MAC Binding** module.
- **Step 2** Enter an IP address included in the DHCP address pool.
- **Step 3** Enter the MAC address of the client which needs a fixed IP address.
- Step 4 Click $^{\oplus}$.
- **Step 5** Click **OK** on the bottom of the page.

IP-MAC Binding		
IP Address	MAC Address	Operation
		(+)
192.168.0.100	74:27:EA:69:80:04	\ominus

Deleting a rule

- **Step 1** Choose **Advanced** to enter the configuration page, and move to **IP-MAC Binding** module.
- **Step 2** Click \bigcirc corresponded to an entry to be deleted.
- **Step 3** Click **OK** on the bottom of the page.

9.3 Port forwarding

By default, internet users cannot access any service on any of your local hosts. If you want to enable internet users to access a particular service on a local host, enable this function and specify the IP address and service port of the local host. This can also prevent local network from being attacked when the internal server is opened to the internet users.

Click Advanced, and move to Port Forwarding module to access the configuration page.

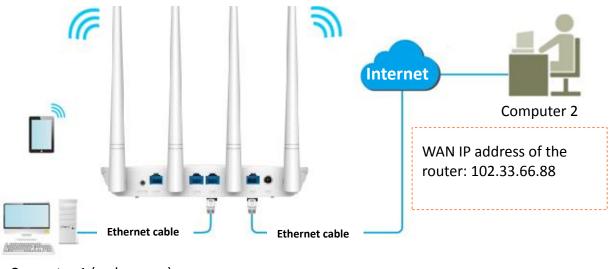
Port Forwarding					
Internal IP Address	Internal Port		External Port	Protocol	Operation
	21	-	21	Both 🔻	(+)

Parameter Description:

Parameter	Description
Internal IP Address	It specifies the IP address of a server that resides on the LAN.
Internal Port	It specifies the service port number of the internal server.
External Port	It specifies a service port number for internet users to access a specified service.
Protocol	It specifies the protocol that specified service uses. Both indicates that both TCP and UDP are used. If you are uncertain about it, Both is recommended.
Operation	It allows you to manually add and delete a port forwarding rule.

Example of configuring a port forwarding rule

Tom uses a F6 to set up home network, and establishes a web server in LAN. Now he wants internet users to access the resources on the server. The port forwarding function can be enabled to fulfill the requirement.



Computer 1 (web server) IP address: 192.168.0.100

Prerequisites

- The WAN IP address of the router is a public IP address, which is 102.33.66.88.
- Computer 1 is assigned a fixed IP address, which is 192.168.0.100 (Refer to <u>IP-MAC</u> <u>binding</u> function).
- The internal port of the web server is 1555. And the external port number to access the web server is also 1555.

Configuration procedure:

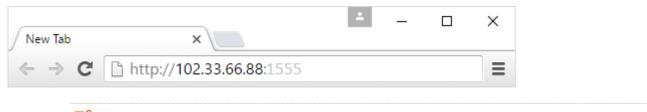
- **Step 1** Choose **Advanced**, and move to **Port Forwarding** to enter the configuration page.
- **Step 2** Enter **Internal IP** to the IP address of the web server, which is the IP address of computer 1, **192.168.0.100**.
- **Step 3** Enter **Internal Port** to the port number of the web service, which is **1555** in this example.
- **Step 4** Enter **External Port**, which is **1555** in this example.
- **Step 5** Set **Protocol** to **Both**.
- **Step 6** Click ^O, and then **OK** at the bottom of the page.

Internal Port	External Port	Protocol	Operation
1555 -	1555	Both 💌	(+)
1555	1555	Both	\bigcirc
	1555 -	1555 - 1555	1555 • 1555 Both •

----End

Verification

Enter *Protocol name://WAN port IP address:External port* in the address bar of a web browser on a computer over the internet to access the resources on the web server. In this example, enter http://102.33.66.88:1555.



To make the port forwarding function always effective, you can use both the port forwarding and DDNS functions to allow internet users to access the LAN server using a domain name.

9.4 DDNS

9.4.1 Overview

DDNS is short for Dynamic Domain Name Server. When the service runs, the DDNS client on the router send its current WAN port IP address to the DDNS server, and then the server updates the mapping relationship between the domain name and the IP address in the database to achieve dynamic domain name resolution. You can enable this function to map the router's dynamically changing WAN Port IP address (public network IP address) to a fixed domain name.

DDNS normally interworks with port forwarding, DMZ host and remote web-based management, so that the internet users can access the internal server or the router's web UI with a domain name.

Choose **Advanced**, and move to **DDNS** module to access the configuration page. By default, it is disabled. Select **Enable**, and the following page appears.

DDNS		
DDNS	Enable O Disable	
Service Provider	oray.com 🔻	Register Now
DDNS User Name		
DDNS Password	>_<	
Connection Status	Disconnected	

Parameter description:

Parameter	Description
DDNS	It specifies whether to enable the DDNS function.
Service Provider	It specifies a DDNS service provider. The router supports oray.org and 88ip.cn.
DDNS User Name	It specifies the user name registered on a DDNS service provider's website for logging in to the DDNS service.
DDNS Password	It specifies the password registered on a DDNS service provider's website for logging in to the DDNS service.
Connection Status	It specifies the current connection status of the DDNS service.

9.4.2 An example of configuring DDNS

Winnie uses F6 to set up network, and establishes a web server on LAN. She wants internet users to access the resources on the server with a domain name. The port forwarding and DDNS function can be enabled to fulfill the requirement.

Assumption

DDNS service provider: oray.com

Domain name: tenda-winnie.imwork.net

Username: tenda-winnie

Password: a1234578

Web server IP address: 192.168.0.110

Internal port number of the web server and the external port number to access the web server: 8080

Network topology



Computer 1 (web server)

Configure procedure

Step 1 Refer to <u>Port forwarding</u> to configure port forwarding function.

Port Forwarding				
Internal IP Address	Internal Port	External Port	Protocol	Operation
	8080 -	8080	Both	(+)
192.168.0.110	8080	8080	Both	\ominus

- **Step 2** Configure DDNS function.
 - **1.** Choose **Advanced**, and move to **DDNS** to enter the configuration page.
 - 2. Set DDNS to Enable.
 - 3. Set Service Provider to oray.com.

₽TIP

If you do not have a DDNS account, select a service provider and click Register Now to go to the service provider's website. Register a DDNS account and memorize your user name, password, and domain name of the account.

- 4. Enter your DDNS user name, which is **tenda-winnie** in this example.
- 5. Enter your DDNS password, which is **a12345678** in this example.

DDNS		
DDNS	🖲 Enable 🔘 Disable	
Service Provider	oray.com 🔻	Register Now
DDNS User Name	tenda-winnie	
DDNS Password	> _{>=} <	
Connection Status	Disconnected	

6. Click **OK** at the bottom of the page.

----End

Wait a moment, and refresh the page. When the **Connection Status** shows **Connected**, the configuration is saved successfully.

DDNS		
DDNS	Enable O Disable	
Service Provider	oray.com 🔻	Register Now
DDNS User Name	tenda-winnie	
DDNS Password	>>>	
Connection Status	Connected	

Verification

Internet users can use <u>http://tenda-winnie.imwork.net:8080</u> to access the web server.

9.5 DMZ host

A DMZ host on a LAN can be accessed by the internet users without limit. It is especially used for video conferences and online games. You can set a computer with these requirements as a DMZ host for better user experience.

Choose **Advanced**, and move to **DMZ Host** module to access the configuration page. By default, it is disabled. It shows as the following figure when you enable it.

DMZ Host	
DMZ Host	🖲 Enable 🔘 Disable
Host IP Address	

- A DMZ host is not protected by the firewall of the router. A hacker may leverage the DMZ host to attack your LAN. Therefore, enable the DMZ function only when necessary.
- Manually set the IP address of the LAN computer that functions as a DMZ host (Refer to <u>IP-MAC</u> <u>binding</u> function), as a changeable IP address may result in DMZ function failures.
- Security software, antivirus software, and the built-in OS firewall of the computer may cause DMZ function failures. Disable them when using the DMZ function. If the DMZ function is not required, you are recommended to disable it and enable your firewall, security, and antivirus software.

Configuration procedure

- **Step 1** Choose **Advanced**, and move to **DMZ Host** module to enter the configuration page.
- **Step 2** Set **Host IP Address** to the IP address of a computer that you want to set as the DMZ host.
- **Step 3** Click **OK** at the bottom of the page.

DMZ Host	
DMZ Host	💽 Enable 🔘 Disable
Host IP Address	

9.6 UPnP

UPnP is short for Universal Plug and Play. This function enables the router to implement automatic port forwarding by automatically detecting UPnP-based application programs and enabling ports on the router for the applications. It is generally used for P2P programs, such as BitComet and AnyChat, and helps to increase the download speed.

Choose **Advanced**, and move to **UPnP** module to enter the configuration page. It is enabled by default, see the following figure.

UPNP	
	UPNP Enable Disable

9.7 PING WAN

It enables you to ping the WAN port IP address over the internet to check the connectivity between the router and the internet. It is enabled by default.

Choose **Advance**, and move to **PING WAN** module to enter the configuration page. It is enabled by default, see the following figure.

PING WAN	
PING WAN	Enable O Disable



Administration

This module describes how to manage and maintain your router and home network.

10.1 Login password

To ensure network security, a complex login password is recommended. A login password consisting of more types of characters, such as uppercase letters and lowercase letters, has better security.

Configuration procedure:

- **Step 1** Choose **Administration**, and move to **Login Password** module to enter the page.
- **Step 2** Set **New Password** to a new password (5-32 characters).
- **Step 3** Set **Confirm Password** to the new password.
- **Step 4** Click **OK** at the bottom of the page.

Login Password		
New Password	Digits and letters only	
Confirm Password	Confirm Password	

----End

The page will redirect to the login page, you need to use the new password to login again.

10.2 WAN parameters

It allows you to check and modify MTU value, clone MAC address and modify WAN speed.

Choose Administration and move to WAN Parameters module to enter the configuration page.

WAN Parameters		
MTU	1500 -	Do not change if unnecessary.
Clone MAC Address	Restore Default MAC •	Default MAC Address: C8:3A:35:F0:0B:10
WAN Speed	Auto-negotiation •	Current speed:100 Mbps full duplex

MTU

MTU specifies the maximum size of packet that the router can transmit. MTU varies across connection types. The default setting is recommended.

You can try to change the MTU when:

- You cannot access some specific websites or encrypted websites (such as E-banking or Paypal websites).
- You cannot access a FTP or POP server.

You can try reducing the value of MTU gradually from 1500 until the problem is resolved. (The recommended range is 1400 to 1500.)

MTU	Application
1500	It is commonly used for ADSL and non-VPN dial-up connections.
1492, 1480	It is used for ADSL dial-up connections.
1472	It is the maximum value for the ping command. (A packet with a larger size is fragmented.)
1468	It is used for DHCP connections.
1436	It is used for VPN or PPTP connections.

Clone MAC Address

If your ISP binds your account with MAC Address of your computer that used to verify internet connectivity after you subscribed to the internet service. Then only this computer can access the internet with the account. In this case, you can use the Clone MAC Address function to clone the MAC address of this computer to the WAN port of the router to achieve network sharing.

Click **Restore Default MAC** to restore the MAC address of WAN port to the factory settings.

Here are two scenarios to clone MAC address.

Scenario 1: the computer used to manage the router is the computer that used to access the internet.

Configuration procedure:

- **Step 1** Choose **Administration**, and move to **WAN Parameters** module to enter the configuration page.
- **Step 2** Set **Clone MAC Address** to **Clone Local Host MAC.**
- **Step 3** Click **OK** at the bottom of the page.

MTU 1500 Do not change if unnecessary. Clone MAC Address Clone Local Host MAC Local Host MAC Address: 74:27:EA:69:80:04	WAN Parameters			
	MTU	1500 -	Do not (change if unnecessary.
	Clone MAC Address	Clone Local Host MAC		
WAN Speed Auto-negotiation Current speed:100 Mbps full duplex	WAN Speed	Auto-negotiation •	Current	speed:100 Mbps full duplex

----End

Scenario 2: The computer used to manage the router is not the computer that used to access the internet. And you need to get the MAC address of the computer that can access the internet.

Configuration procedure:

- **Step 1** Choose **Administration**, and move to **WAN Parameters** module to enter the configuration page.
- **Step 2** Set **Clone MAC Address** to **Manual**.

WAN Parameters		
MTU	1500 -	Do not change if unnecessary.
Clone MAC Address	Manual	C8:3A:35:84:3F:00
WAN Speed	Auto-negotiation •	Current speed:100 Mbps full duplex

Step 4 Click **OK** at the bottom of the page.

---End

WAN Speed

It specifies the speed of the WAN port. By default, the speed mode of the WAN port is Autonegotiation. Change the setting only when necessary. If the router cannot access the internet after you set up it correctly with a 10 Mbps upstream device, you can change **WAN speed** to **10 Mbps auto-negotiation** to achieve negotiation.

10.3 LAN parameters

It allows you to view and modify the LAN IP address and DHCP server parameters of the router.

The DHCP server can automatically assign IP addresses, subnet masks, gateways and other related parameters to the clients of the router.

Choose Administrator, and move to LAN Parameters module to enter the configuration page.

LAN Parameters	
LAN IP Address	192.168.0.1
Subnet Mask	255.255.255.0
DHCP Server	Enable If this function is disabled, the router stops assigning IP addresses to clients.
Start IP Address	192.168.0. 100
End IP Address	192.168.0. 200
Preferred DNS Server	192.168.0.1
Alternate DNS Server	

Parameter Description:

Parameter	Description
LAN IP Address	It specifies the LAN IP address of the router, which is also the management IP address, for logging in to the router web UI.
Subnet Mask	It specifies the subnet mask of the LAN port, used to identify the IP address range of the local area network.
DHCP Server	It specifies whether to enable DHCP server.
Start IP Address/End IP Address	It specifies the range of IP addresses that can be assigned to devices connected to the router.
Preferred DNS Server	It specifies the preferred DNS address of the router used to assign to the devices connected to the router. It is the LAN IP address of the router by default. You can change it if necessary.
Alternate DNS Server	It specifies the alternate DNS address of the router used to assign to the devices connected to the router. It is an optional field and it is left blank by default.

10.4 Remote web-based management

Generally, the web UI of the router can only be accessed on devices that are connecting to the router by a LAN port or wireless connection. When you encounter network faulty, you can ask technician far away to diagnose and fix your problems, improving efficiency and reducing costs and efforts. By default, it is disabled. When you enable it, it displays as the following figure.

Remote Web-based Management		
Remote Web-based Management	Enable If this function is enabled,	you can manage the router through the internet.
Management IP Address	All	r
Port	80	

Configuring remote web-based management

Configuration procedure:

- **Step 1** Choose **Administration**, and move to **Remote Web-based Management** module to enter the configuration page.
- **Step 2** Select the **Enable** option.
- **Step 3** Set **Management IP Address** to **Specific,** and enter a specified IP address.
- **Step 4** Enter a port number used to access the router remotely.
- **Step 5** Click **OK** at the bottom of the page.

Remote Web-based Management		
Remote Web-based Management	Enable If this function is enabled, you can manage the router through the internet.	
Management IP Address	Specific •	
Port	80	

----End

Parameter Description:

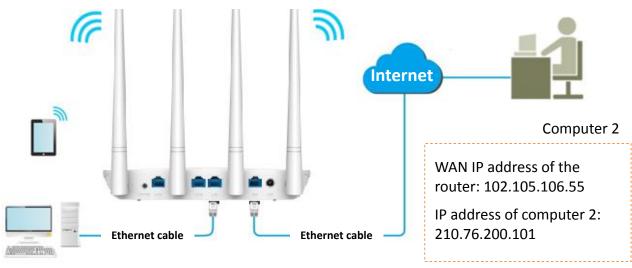
Parameter	Description	
Remote Web-based Management	To enable/disable Remote Web-based Management function. It is disabled by default.	
Management IP Address	It specifies the IP address to manage the router remotely.	
	 All: It indicates that all internet users can access the web UI of the router. It is not recommended to select this option for network security. 	
	• Specific : It indicates that only the host with the specified public IP address is allowed to access the web UI of router remotely. If the host for remote access is in an intranet, enter the public IP address of the computer's gateway here.	

Parameter	Description
	The port number to access the router remotely. It is 80 by default, can be modified if necessary.
Port	Port 1 to 1024 are occupied by well-known services. It is recommended to modify the port to be in the range from 1025 to 65535.
	To access the web UI of the router by the URL: <u>http://WAN IP address:port</u> <u>number</u> . If DDNS is enabled on the router, you can access the web UI by <u>http://WAN domain name:port number.</u>

An example of configuring remote web-based management

An F6 is used to set up a network to in an apartment, and needs to be logged in and managed over the internet. Assume the public IP address of the router is 102.105.106.55 and the public IP address of the computer for remotely management is 210.76.200.101.

The following figure shows the application scenario.



Computer 1 (web server)

The computer used to remotely log in to the web UI of the router must be assigned a public IP address. If it is assigned a private IP address, use the public IP address of the router to which the computer connects for remote login. Private IP addresses are not applicable to remote management.

Configuration procedure:

- **Step 1** Choose **Administration**, and move to **Remote Web-based Management** module to enter the configuration page.
- **Step 2** Check the **Enable** option.
- **Step 3** Set **Management IP Address** to **Specific,** and enter **210.76.200.101**.
- Step 4 Click OK.

Remote Web-based Managem	ent
Remote Web-based Management	Enable If this function is enabled, you can manage the router through the internet.
Management IP Address	Specific • 210.76.200.101
Port	80

----End

After the configuration is saved, use <u>http://102.105.106.55:80</u> to access the web UI of the router on the computer 2.

10.5 Date & Time

If the system time of the router is incorrect, time-based functions of the router cannot take effect correctly, including the WiFi schedule, parental controls and Automatic Maintenance functions. Upon completion of configuration with the Quick Setup Wizard, the router synchronizes its system time with the computer used to configure the router. You can change the setting manually.

Choose Administration, and move to Date & Time module to enter the configuration page.

Date & Time			
Time Zone	(GMT+08:00)Beijing, Chongqing, Hong Kong, Urumqi		
Current Time	2019-06-18 11:13:22	Current date and time has synced with the Internet.	

10.6 Device management

This module describes how to reboot, reset, and upgrade the router, how to back up your current configuration and restore the router to previous configuration, how to view the system logs and functions that are enabled or disabled.

Reboot router

If a setting fails to take effect or the router fails to work properly, you can try rebooting the router.

Choose **Administration**, and move to **Device Management** module to enter the configuration page. Click **Reboot**, and confirm it, the router will restart. When the progress bar completes, it indicates the router completes restart.

Device Management			
Reboot Router	Reboot		
Restore Factory Settings	Reset		
Backup/Restore Configuration	Backup	Restore	
Export System Log	Export		
Upgrade Firmware	Local Upgrade	Online Upgrade	
	Current Firmware Version:V03.03.01.23_multi		
Automatic Maintenance	aintenance If this function is enabled, the router reboots during 02:00 a.m. to 05:30 a.m. every day when the traffic is less than 3 KB/s.		

₽TIP

Rebooting the router will disconnect all the connections. Please reboot the router when the network is relatively idle.

Restore factory settings

If you are uncertain about why the internet is inaccessible through the router or forget the login password of the router, you can reset the router to restore the factory settings.

The router can be reset on the web UI or using the **WiFi/RST** button.

- It is recommended that you do not reset the router, unless you forget your login password or Tenda technical support asks you to do so. You can access the internet only after reconfiguring the router.
- Ensure that the power supply of the router is normal when the router is reset.
- The default login IP address is 192.168.0.1, and login password is admin after resetting.

Resetting the Router on the Web UI

Step 1 Choose **Administration**, and move to **Device Management** module to enter the

configuration page.

Step 2 Click Reset.

Device Management	
Reboot Router	Reboot
Restore Factory Settings	Reset
Backup/Restore Configuration	Backup Restore
Export System Log	Export
Upgrade Firmware	Local Upgrade Online Upgrade
	Current Firmware Version:V03.03.01.23_multi
Automatic Maintenance	Enable If this function is enabled, the router reboots during 02:00 a.m. to 05:30 a.m. every day when the traffic is less than 3 KB/s.

Step 3 Click **OK** on the popup window.

192.168.0.1 says		
Restoring the factory settings clears all current settings of the router.		
	ОК	Cancel

----End

Wait for the progress bar to complete.

Resetting the Router Using the Reset Button

Hold down the **WiFi/RST** button of the router for about 8 seconds and release it when the LED indicator blinks fast. The router is reset successfully when the LED indicator lights up.

Backup/Restore configuration

It allows you to back up the current configuration of the router to your computer. You are recommended to back up the configuration after the settings of the router are significantly changed, or the router works in a good condition.

After you restore the router to factory settings or upgrade it, you can use this function to restore a configuration that has been backed up.

To back up or restore the configuration of your router, choose **Administration**, move to **Device Management** module and perform the backup or restoring procedures.

Device Management	
Reboot Router	Reboot
Restore Factory Settings	Reset
Backup/Restore Configuration	Backup Restore
Export System Log	Export
Upgrade Firmware	Local Upgrade Online Upgrade
	Current Firmware Version:V02.03.01.22_cn
Automatic Maintenance	Enable If this function is enabled, the router reboots during 02:00 a.m. to 05:30 a.m. every day when the traffic is less than 3 KB/s.

Export system log

This function logs all key events that occur after the router is started. If you encounter a network fault, the system logs are helpful for rectifying the fault. A maximum of 150 records can be kept by the router.

Choose Administration, move to Device Management module to access the configuration page.

Device Management		
Reboot Router	Reboot	
Restore Factory Settings	Reset	
Backup/Restore Configuration	Backup	Restore
Export System Log	Export	
Upgrade Firmware	Local Upgrade	Online Upgrade
	Current Firmware Version:V02.03	.01.22_cn
Automatic Maintenance		abled, the router reboots during 02:00 a.m. to 05:30 on the traffic is less than 3 KB/s.

Click **Export** to save system logs to your local computer.

Upgrade firmware

This function enables the router to obtain the latest functions and more stable performance. The router supports local firmware upgrade and online firmware upgrade.

Local upgrade

- To enable your router is upgraded successfully, ensure that the firmware used to upgrade the firmware is applicable to the router.
- When you are upgrading a firmware, do not power off the router.
- **Step 1** Go to <u>www.tendacn.com</u>, download a firmware version of the router to your computer and unzip it.
- **Step 2** Choose **Administration**, move to **Device Management** module to access the configuration page.

Step 3 Click Local Upgrade.

Device Management		
Reboot Router	Reboot	
Restore Factory Settings	Reset	
Backup/Restore Configuration	Backup Restore	
Export System Log	Export	
Upgrade Firmware Local Upgrade Current Firmware Version.V03.03.01.23_multi		
Automatic Maintenance	Enable If this function is enabled, the router reboots during 02:00 a.m. to 05:30 a.m. every day when the traffic is less than 3 KB/s.	

- **Step 4** Select the corresponding firmware version. click **Open.**
- **Step 5** Click **OK** on the dialog box that appears.



----End

Wait until the progress bar is complete. Log in to the web UI of the router again. Choose **Status** > **System Information** and check whether the upgrade is successful based on **Firmware Version**.

₽TIP

For better performance of the new firmware, when the upgrading completes, you are recommended to reset the router to factory default settings and re-configure the router.

Online upgrade

When the router is connected to the internet, system will detect whether there is a new firmware

automatically and displays the detected information on the page. You can choose whether to upgrade the latest firmware. If you want to upgrade the firmware, click **Upgrade** and the router upgrades the firmware automatically.

Configuration procedure:

- **Step 1** Choose **Administration** > **Device Management** on the router web UI.
- **Step 2** Click **Online Upgrade.**

----End

Wait until the progress bar is complete. Log in to the web UI of the router again. Choose **Status** > **System Information** and check whether the upgrade is successful based on **Firmware Version**.

*Q*_{TIP}

For better performance of the new firmware of the router, after the upgrading completes, you are recommended to reset the router to factory default settings and re-configure the router.

Automatic Maintenance

Automatic maintenance enables you to make the router restart regularly. It helps to improve the stability and the service life of the router.

To configure the automatic maintenance function, choose **Administration**, and move to **Device Management**. If this function is enabled, the router reboots during 03:00~05:00 a.m. every day when the traffic is lighter than 3 KB/s. By default, this function is enabled.

Device Management			
Reboot Router	Reboot		
Restore Factory Settings	Reset		
Backup/Restore Configuration	Backup	Restore	
Export System Log	Export		
Upgrade Firmware	Local Upgrade	Online Upgrade	
	Current Firmware Version:V03.03.01.23_multi		
Automatic Maintenance	Enable If this function is enabled, the router reboots during 02:00 a.m. to 05:30 a.m. every day when the traffic is less than 3 KB/s.		

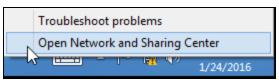
Appendix

A.1 Configuring the computer to obtain an IP address automatically

Perform the configuration procedure corresponding to <u>Windows 8</u>, <u>Windows 7</u>, or <u>Windows XP</u>, depending on your OS. A computer installed with a wired network adapter is used as an example to describe the procedures. The procedures for configuring computers installed with a wireless network adapter are similar to these procedures.

A.1.1 Windows 8

Step 1 Right-click 🔛 in the lower-right corner of the desktop and choose Open Network and Sharing Center.



Step 2 Click Ethernet and then Properties.

2	Network and Sharing Center – 🗖 🗙			
📀 🌛 🗉 🕇 🚆 « Network	and Internet → Network and Sharing Center v C	Search Control Panel 🔎		
Control Panel Home	Ethernet Status	onnections		
Change adapter settings	General			
Change advanced sharing settings	Connection No Internet access IPv4 Connectivity: No Internet access IPv6 Connectivity: No Internet access Media State: Enabled Duration: 00:14:16 Speed: 1.0 Gbps	ins: Do Internet access		
	Details Activity Received	ooting information.		
	Bytes: 2,404 18,772			
See also				
HomeGroup	Close			
Internet Options				
Windows Firewall				

Step 3 Double-click Internet Protocol Version 4 (TCP/IPv4).

Ethernet Properties	×
Networking	
Connect using:	
Intel(R) 82574L Gigabit Network Connection	
Configure	
This connection uses the following items:	
File and Printer Sharing for Microsoft Networks Microsoft Network Adapter Multiplexor Protocol Microsoft LLDP Protocol Driver Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4)	× ×
Install Uninstall Properties	5
Description Transmission Control Protocol/Internet Protocol. The defaul wide area network protocol that provides communication across diverse interconnected networks. OK Ca	lt

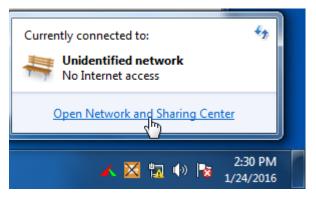
Step 4 Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**, and click **OK**.

Internet Protocol Version 4 (TCP/IPv4) Propert	ies ×		
General Alternate Configuration			
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.			
Obtain an IP address automatically			
O Use the following IP address:			
IP address:			
Subnet mask:			
Default gateway:			
Obtain DNS server address automatically			
O Use the following DNS server addresses:			
Preferred DNS server:			
Alternate DNS server:			
Validate settings upon exit Advance	ed		
ОК	Cancel		

Step 5 Click **OK** in the **Ethernet Properties** window.

A.1.2 Windows 7

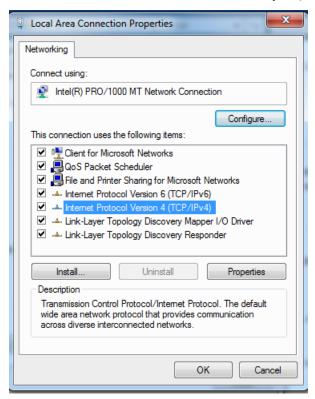
Step 1 Click and In the lower-right corner of the desktop and choose Open Network and Sharing Center.



Step 2 Click **Local Area Connection** and then **Properties**.

				_ D X
🐨 🗸 🛛 🖉 🖉 🖉 Netwo	rk and Internet 🕨 Network and S	haring Center 🛛 👻 😽	Search Control Panel	Q
Control Panel Home Change adapter setti Change advanced sh settings	Local Area Connection Status General Connection IPv4 Connectivity:	No Internet access	set up connection	€ ▲ S See full map
	IPv6 Connectivity: Media State:	No Internet access Enabled	Connec	t or disconnect
	Duration: Speed: Details	03:40:31 1.0 Gbps	ss type: No Intern ections: Docal Area	
	Activity ————————————————————————————————————	- View - Received	or VPN connection; or	r set up a
	Bytes: 758,61	8 8,236,680	I-up, or VPN network o	connection.
See also HomeGroup	Properties 🕅 Disable	Diagnose	vork computers, or cha	ange sharing
Internet Options		Close		

Step 3 Double-click Internet Protocol Version 4 (TCP/IPv4).



Step 4 Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**, and click **OK**.

nternet Protocol Version 4 (TCP/IPv4)	?	x					
General Alternate Configuration							
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.							
Obtain an IP address automatical	ly						
O Use the following IP address:							
IP address:				1.1			
Subnet mask:				1.0			
Default gateway:							
Obtain DNS server address autor	natica	lly					
OUse the following DNS server add	resse	s:					
Preferred DNS server:							
Alternate DNS server:							
Validate settings upon exit	Validate settings upon exit						
			ОК		Cance	el	

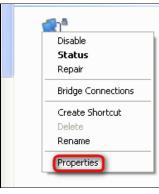
Step 5 Click **OK** in the Local Area Connection Properties window.

A.1.3 Windows XP

Step 1 Right-click **My Network Places** on the desktop and choose **Properties**.



Step 2 Right-click **Local Area Connection** and choose **Properties**.



Step 3 Double-click **Internet Protocol (TCP/IP)**.

	Advance	d				
Conne	ot using:				225	
-	Marvell Yuk	on 88E	8057 PC	-E Gigab	1	Configure
This co	nnection u	ses the	following	items:		
	Client for File and I QoS Pac	Printer S ket Sch	iharing fo reduler	r Microso	oft Netv	varks
	Install		Unin	stall		Properties
Tran wide	ription Ismission C area netw as diverse	ork prot	ocol that	provides	comm	The defaul unication
	w icon in n ify me wher					l o connectiv

Step 4 Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**, and click **OK**.

eneral	Alternate Configuration	n
his cap		ed automatically if your network supports need to ask your network administrator fo
00	otain an IP address auto	omatically
OU	se the following IP addre	ess:
IP ac	idross;	1 10 10 TO 10
Subr	iel mask:	
Defa	ult gateway.	17 14 19 T
⊙ 0ł	tain DNS server addres	ss automatically
OUs	e the following DNS se	erver addresses:
Prefe	med DNS server:	
Alten	nate DNS server.	
		Advanced.

Step 5 Click **OK** in the **Local Area Connection Properties** window.

A.2 Default parameters

Parameter		F6	N301			
LAN	IP Address	192.168.0.1				
Parameters	Subnet Mask	255.255.255.0				
	DHCP Server	Enabled				
DHCP Server	Start IP Address	192.168.0.100				
	End IP Address	192.168.0.200				
	Preferred DNS Server	192.168.0.1				
Operating Mode		Router mode				
Window	WiFi Name	Tenda_XXXXXX. XXXXXX indicates the last 6 characters of the MAC address of the router.				
Wireless Settings	WiFi Password	None				
	WiFi Schedule	Disabled				