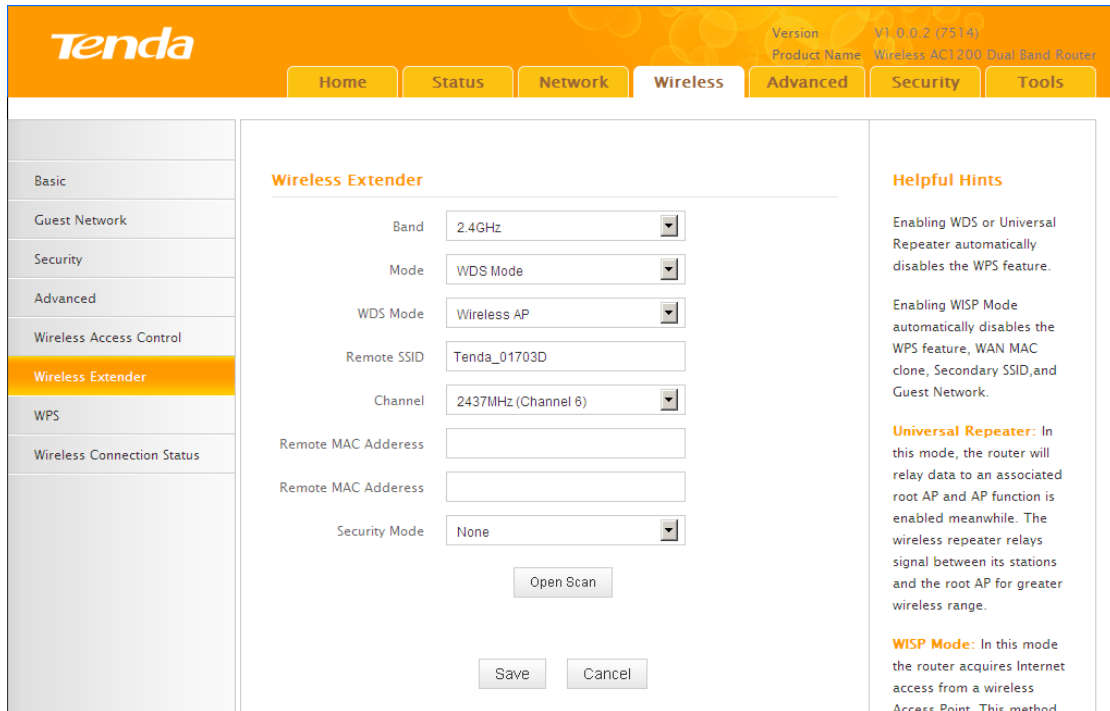


- ② Click **OK** in the appearing screen.
- ③ Click **Wireless -> Wireless Extender**, select **WDS Mode** from the **Mode** drop-down list, select **Wireless AP** from the **WDS Mode** drop-down list and then click **Open Scan**.



- ④ Search for and select the base station AP's SSID and then click **Close Scan**.

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Basic  
Guest Network  
Security  
Advanced  
Wireless Access Control  
**Wireless Extender**  
WPS  
Wireless Connection Status

### Wireless Extender

Band: 2.4GHz  
Mode: WDS Mode  
WDS Mode: Wireless AP  
Remote SSID:   
Channel: 2437MHz (Channel 6)  
Remote MAC Address:   
Remote MAC Address:   
Security Mode: None

Close Scan

| Sel...                   | SSID       | MAC Address       | Ch... | Channel Bandwidth | Security | Signal Intensity |
|--------------------------|------------|-------------------|-------|-------------------|----------|------------------|
| <input type="checkbox"/> | Tenda_home | C8:3A:35:0F:F0:2D | 6     | 40 MHz            | WPA      | -82 dBm          |

**Helpful Hints**

Enabling WDS or Universal Repeater automatically disables the WPS feature.

Enabling WISP Mode automatically disables the WPS feature, WAN MAC clone, Secondary SSID, and Guest Network.

**Universal Repeater:** In this mode, the router will relay data to an associated root AP and AP function is enabled meanwhile. The wireless repeater relays signal between its stations and the root AP for greater wireless range.

**WISP Mode:** In this mode the router acquires Internet access from a wireless

⑤ The SSID, channel, MAC address, security settings except security key of the base station AP will be automatically added to the corresponding fields. You only need to enter the security key of the base station AP and click **Save**.

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**Wireless Extender**  
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Wireless Connection Status

### Wireless Extender

Band: 2.4GHz  
Mode: WDS Mode  
WDS Mode: Wireless AP  
Remote SSID: Tenda\_home  
Channel: 2437MHz (Channel 6)  
Remote MAC Address: C8:3A:35:0F:F0:2D  
Remote MAC Address:   
Security Mode: WPA-PSK/WPA2-PSK  
Authentication Type: WPA-PSK  
Cipher Type: AES  
Security Key:   Display Key  
(8-63 ASCII or 64 hex characters)

Re-scan

**Helpful Hints**

Enabling WDS or Universal Repeater automatically disables the WPS feature.

Enabling WISP Mode automatically disables the WPS feature, WAN MAC clone, Secondary SSID, and Guest Network.

**Universal Repeater:** In this mode, the router will relay data to an associated root AP and AP function is enabled meanwhile. The wireless repeater relays signal between its stations and the root AP for greater wireless range.

**WISP Mode:** In this mode the router acquires Internet access from a wireless Access Point. This method requires you to set the wireless name of Access Point, Channel and Security to match the wireless Access Point.

⑥ Click **Network** -> **DHCP Server**, disable the DHCP server there and

then click **Save**.

The screenshot shows the Tenda web interface for the DHCP Server configuration. The top navigation bar includes Home, Status, Network, Wireless, Advanced, Security, and Tools. The left sidebar lists various network settings, with 'DHCP Server' selected. The main content area is titled 'DHCP Server' and contains a descriptive paragraph about DHCP. Below this, there are several configuration fields: 'DHCP Server' (radio buttons for Disable and Enable, with Disable selected), 'Start IP Address' (192.168.0.100), 'End IP Address' (192.168.0.200), 'Primary DNS Server' (192.168.0.1), 'Secondary DNS Server' (empty), and 'Lease Time' (1 day). At the bottom are 'Save' and 'Cancel' buttons. On the right side, there is a 'Helpful Hints' section with additional information and a 'Note' about rebooting the router.



**Note** -----

- 1 . To set up a wireless network with WDS, both access points must be WDS capable.
  - 2 . This router's primary SSID will automatically change to match that of the remote router when the WDS feature is configured successfully. Please do not change this SSID. Changing this SSID may interrupt the wireless bridge link.
  - 3 . When the WDS is configured successfully, wireless clients can connect to this Tenda wireless router's SSID for Internet access.
- 

**Verify Bridge Connectivity:**

- ① Connect your PC to this Tenda wireless router via a wired or wireless connection and set it to "Obtain an IP address automatically". If you are not clear, see [Appendix 1 Configure PC TCP/IP Setting](#).
- ② Wait until your PC successfully obtains an IP address.

The screenshot shows the 'Local Status' window with the 'Support' tab selected. Under 'Connection status', the following information is displayed:

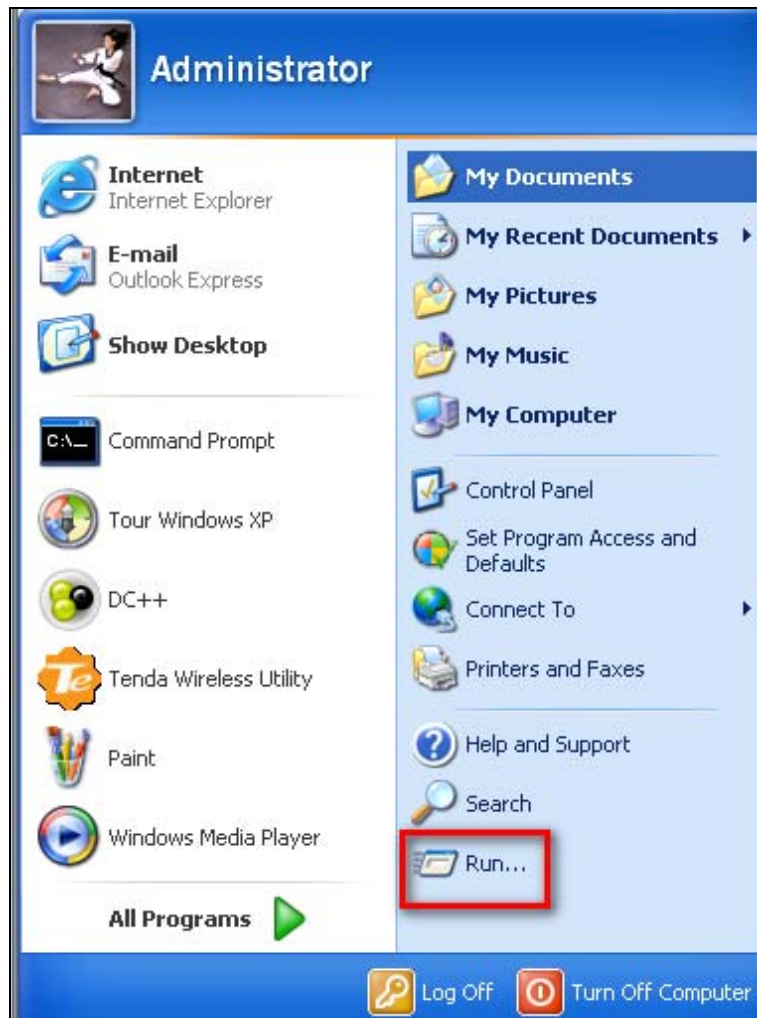
|                  |                  |
|------------------|------------------|
| Address Type:    | Assigned by DHCP |
| IP Address:      | 192.168.0.105    |
| Subnet Mask:     | 255.255.255.0    |
| Default Gateway: | 192.168.0.1      |

Callout boxes provide context for the IP address and gateway:

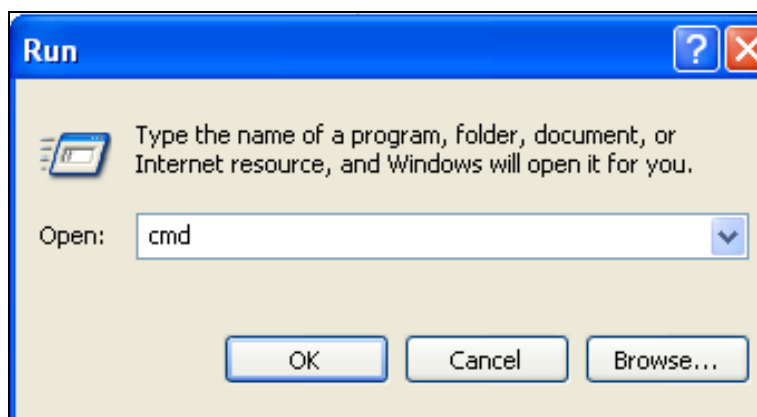
- The IP address 192.168.0.105 is noted as differing from the remote wireless router's LAN IP address.
- The default gateway 192.168.0.1 is identified as the remote router's LAN IP address.

At the bottom of the window, a message states: "Windows did not detect problems with this connection. If you cannot connect, click Repair." Buttons for 'Details...', 'Repair', and 'Close' are also visible.

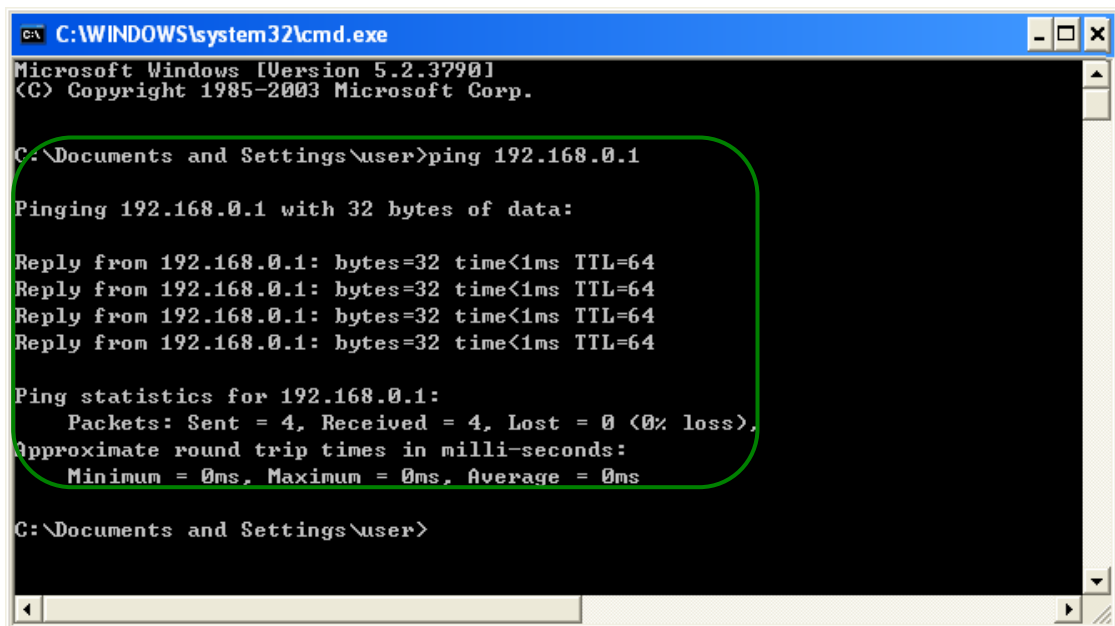
- ③ Click **Start ->Run** .



- ④ Enter **cmd** and click **OK**.



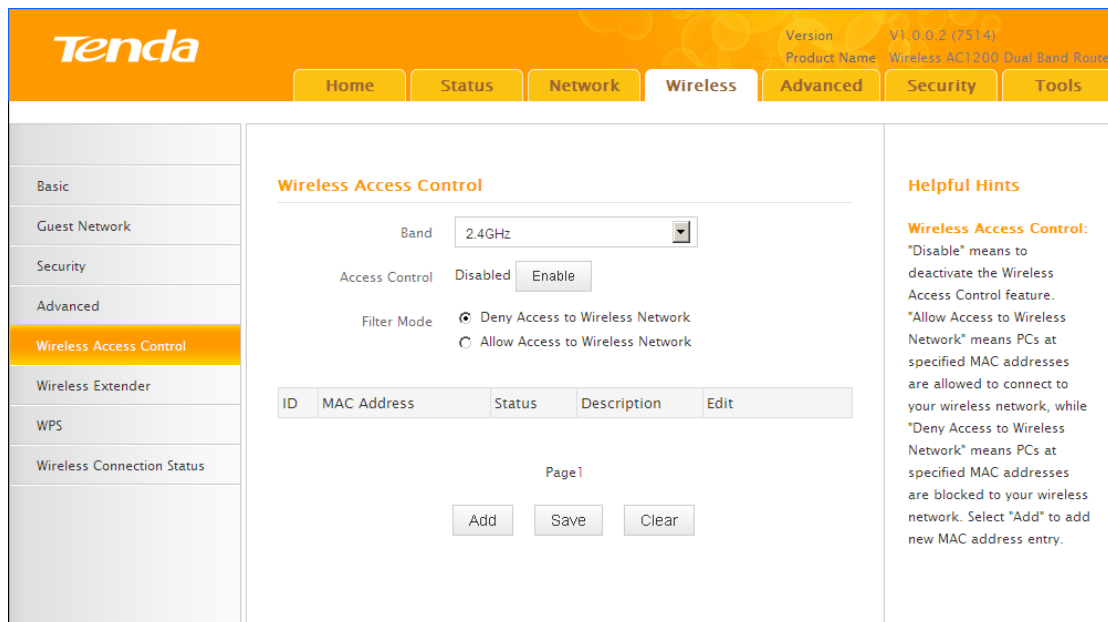
- ⑤ Enter "ping default gateway IP address". Here in this example, enter "ping 192.168.0.1" and press Enter. If you see a similar screen (highlighted area), the bridge is established successfully.



### 3.5 Access Control

Specify a list of devices to "Permit" or "Forbid" a connection to your wireless network via the devices' MAC Addresses. Click **Wireless -> Wireless Access Control** to enter the configuration screen.

There are three options available: Disable, Deny Access to Wireless Network and Allow Access to Wireless Network.



**A.** If you want to allow all wireless clients to join your wireless network, select **Disable**.

**B.** If you want to allow ONLY the specified wireless clients to join your wireless



network, select Allow Access to Wireless Network.

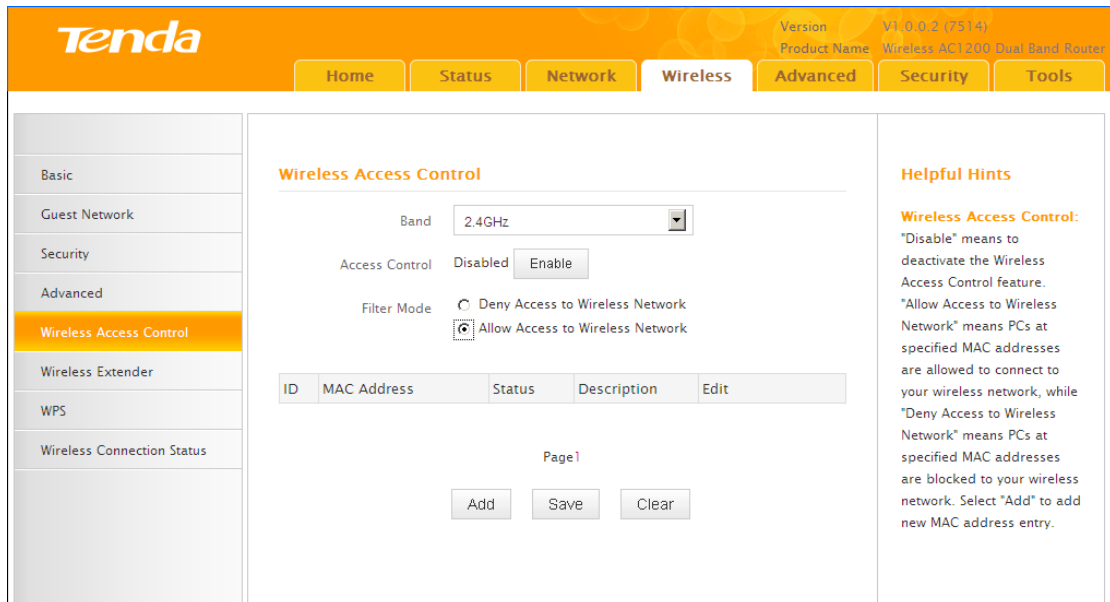
C. If you want to disallow ONLY the specified wireless clients to join your wireless network, select Deny Access to Wireless Network.

### Wireless Access Control Application Example:

To only allow your own notebook at the MAC address of C8:3A:35:C2:CA:E7 to join your wireless network (SSID : Tenda\_home)

### Configuration Procedures:

- ① Select the wireless band you wish to use, for example 2.4Ghz.
- ② Click **Enable**.
- ③ Select **Allow Access to Wireless Network**.



- ④ Click **Add**.

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Home Status Network **Wireless** Advanced Security Tools

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**Wireless Access Control**  
Wireless Extender  
WPS  
Wireless Connection Status

### Wireless Access Control

Band: 2.4GHz

Access Control: Disabled

Filter Mode:  Deny Access to Wireless Network  
 Allow Access to Wireless Network

| ID     | MAC Address | Status | Description | Edit |
|--------|-------------|--------|-------------|------|
| Page 1 |             |        |             |      |

**Helpful Hints**

**Wireless Access Control:**  
"Disable" means to deactivate the Wireless Access Control feature.  
"Allow Access to Wireless Network" means PCs at specified MAC addresses are allowed to connect to your wireless network, while "Deny Access to Wireless Network" means PCs at specified MAC addresses are blocked to your wireless network. Select "Add" to add new MAC address entry.

⑤ Select or enter your wireless MAC address and click **Save**.

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Wireless Extender  
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Wireless Connection Status

### Wireless Access Control

Use the Wireless Access Control feature to manage client's access to your wireless network.

Select Client: ---- Faster Client Select----

MAC Address: C8 : 3A : 35 : C2 : CA : E7

Description:

Status: Enable

**Helpful Hints**

**Wireless Access Control:**  
"Disable" means to deactivate the Wireless Access Control feature.  
"Allow Access to Wireless Network" means PCs at specified MAC addresses are allowed to connect to your wireless network, while "Deny Access to Wireless Network" means PCs at specified MAC addresses are blocked to your wireless network. Select "Add" to add new MAC address entry.

⑥ Below screen will then appear.



Tenda
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Home
Status
Network
Wireless
Advanced
Security
Tools

- Basic
- Guest Network
- Security
- Advanced
- Wireless Access Control
- Wireless Extender
- WPS
- Wireless Connection Status

### Wireless Access Control

Band: 2.4GHz

Access Control: Disabled Enable

Filter Mode:  Deny Access to Wireless Network  
 Allow Access to Wireless Network

| ID | MAC Address       | Status | Description | Edit  |
|----|-------------------|--------|-------------|---|
| 1  | C8:3A:35:C2:CA:E7 | Enable |             | <span style="border: 1px solid #ccc; padding: 2px 5px;">Edit</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">Delete</span> |

Page 1

Add
Save
Clear

#### Helpful Hints

**Wireless Access Control:**  
 "Disable" means to deactivate the Wireless Access Control feature.  
 "Allow Access to Wireless Network" means PCs at specified MAC addresses are allowed to connect to your wireless network, while  
 "Deny Access to Wireless Network" means PCs at specified MAC addresses are blocked to your wireless network. Select "Add" to add new MAC address entry.



**Tip** -----

1. Up to 16 wireless MAC addresses can be configured.
  2. If you don't want to configure the complex wireless security settings and want to disallow others to join your wireless network, you can configure a wireless access control rule to allow only your own wireless device.
-

### 3.7 WPS Setup

Click **Wireless** -> **WPS** to enter WPS screen. Wi-Fi Protected Setup makes it easy for home users who know little of wireless security to establish a secure wireless home network, as well as to add new devices to an existing network without entering long passphrases or configuring complicated settings. Simply enter a PIN code or press the software PBC button or hardware WPS button (if equipped) and a secure wireless connection can be established.

**A .** If your wireless network is not secured, you can use the WPS to quickly encrypt your wireless.

**B .** If your wireless network is secured with WPS, you can quickly join your wireless network with a WPS capable adapter (Only WPA2-PSK and Mixed WPA/WPA2-PSK are supported).

You can use WPS PBC or WPS PIN to establish a secure connection.

- **PBC:** Establish WPS connection using the the software PBC button or hardware WPS button (if equipped).
- **PIN:** Establish WPS connection using the PIN code.

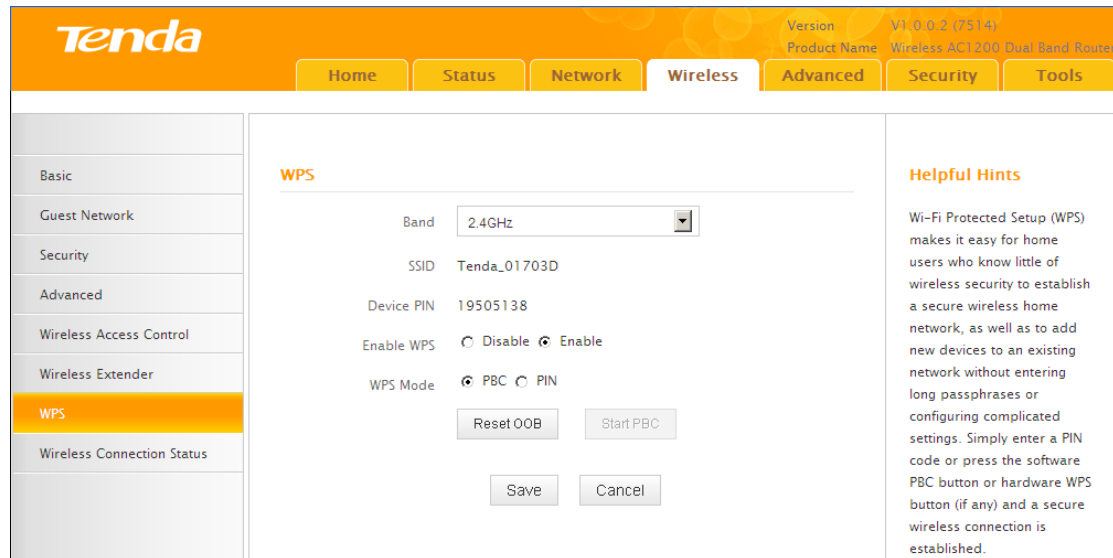
#### To secure a wireless network with WPS



#### Knowledge Center -----

**1. Reset OOB:** If clicked, the device's SSID and security mode will become unconfigured so that WPS can reconfigure the device's SSID, security settings. When the action of Reset OOB completes, the device's SSID will be restored to factory default, and security mode will be disabled (none).

-----



You can use the following 4 methods to establish a WPS connection:

**Method 1: Establish a WPS connection using PBC on the Web Manager:**

- ① Select a band, for example, 2.4GHz.
- ② Click **Enable**.
- ③ Click **Save** to save your settings.
- ④ Click **Start PBC**.
- ⑤ The WPS LED on this router will keep blinking for 2 seconds. Within these 2 minutes, enable WPS/PBC on the wireless client to join your wireless network.

**Method 2: Establish a WPS connection using the hardware WPS button on the device:**

- ① Select a band, for example, 2.4GHz.
- ② Click **Enable**.
- ③ Click **Save** to save your settings.
- ④ Press and hold the WPS button on the back panel of this router for about 1-3 seconds and then release it.
- ⑤ The WPS LED on this router will keep blinking for 2 seconds. Within these 2 minutes, enable WPS/PBC on the wireless client to join your wireless network.

**Method 3: Establish a WPS connection using the 8-digit PIN code from the wireless network adapter:**



- ① Select a band, for example, 2.4GHz.
- ② Click **Enable**.
- ③ Select **PIN** and enter the 8-digit PIN code from the wireless network adapter.
- ④ Click **Save** to save your settings.
- ⑤ Click **Start PIN**.
- ⑥ The WPS LED on this router will keep blinking for 2 seconds. Within these 2 minutes, enable WPS/PIN- Enrollee on the wireless client to join your wireless network.

**Method 4: Establish a WPS connection using the 8-digit PIN code from the device:**

- ① Select a band, for example, 2.4GHz.
- ② Click **Enable**.
- ③ Select **PIN**.
- ④ Click **Save** to save your settings.
- ⑤ Click **Start PIN**.
- ⑦ Enable WPS/PIN on your router and WPS/PIN- Enrollee on the wireless client, and then enter the 8-digit PIN code from your router to join your wireless network.

**To quickly join a secured wireless network with WPS**

If you have already secured your wireless network with WPS or WPA2-PSK or Mixed WPA/WPA2-PSK and you want to join your wireless network but you hate to enter or forget the security key, do as follows:

**Method 1: Establish a WPS connection using the hardware WPS button on the router:**

- ① Check the WPS LED status on the router. It should display a solid light.
- ② Press and hold the WPS button on the back panel of this router for about 1-3 seconds and then release it.
- ③ The WPS LED on this router will keep blinking for 2 seconds. Within these 2 minutes, enable WPS/PBC on the wireless client to join your wireless



network.

### Method 2: Establish a WPS connection using the 8-digit PIN code from the router:

- ① Check the WPS LED status on the router. It should display a solid light.
- ④ Enable WPS/PIN- Registrar on the wireless client and enter the 8-digit PIN code from your router to join your wireless network.



#### Note

To use the WPS security, the wireless client must be also WPS-capable.

## 3.8 Connection Status

Click **Wireless** -> **Connection Status**. Here you can see a list of wireless devices connected to the router.

The screenshot shows the Tenda router's web interface. At the top, the Tenda logo is on the left, and the version (V1.0.0.2 (7514)) and product name (Wireless AC1200 Dual Band Router) are on the right. A navigation bar contains buttons for Home, Status, Network, Wireless, Advanced, Security, and Tools. The 'Wireless' button is active. On the left, a sidebar menu lists various settings, with 'Wireless Connection Status' highlighted. The main content area is titled 'Connection Status' and includes a description: 'This section displays wireless client info.' Below this is a 'Band' dropdown menu currently set to '2.4GHz'. A table with columns for ID, SSID, MAC Address, IP Address, Duration, and Speed is present, with a 'Refresh' button below it. To the right, a 'Helpful Hints' section states: 'This section displays wireless client info.'



#### Tip

You can know whether there are unauthorized accesses to your wireless network by viewing the wireless client list.

## 4 Advanced Applications

### 4.1 Bandwidth Control

If there are multiple PCs behind your router competing for limited bandwidth resource, then you can use this feature to specify a reasonable amount of



bandwidth for each such PC, so that no one will be over stuffed or starved to death.

Click **Advanced** -> **Bandwidth Control** to enter the bandwidth control screen.



**Tip** -----

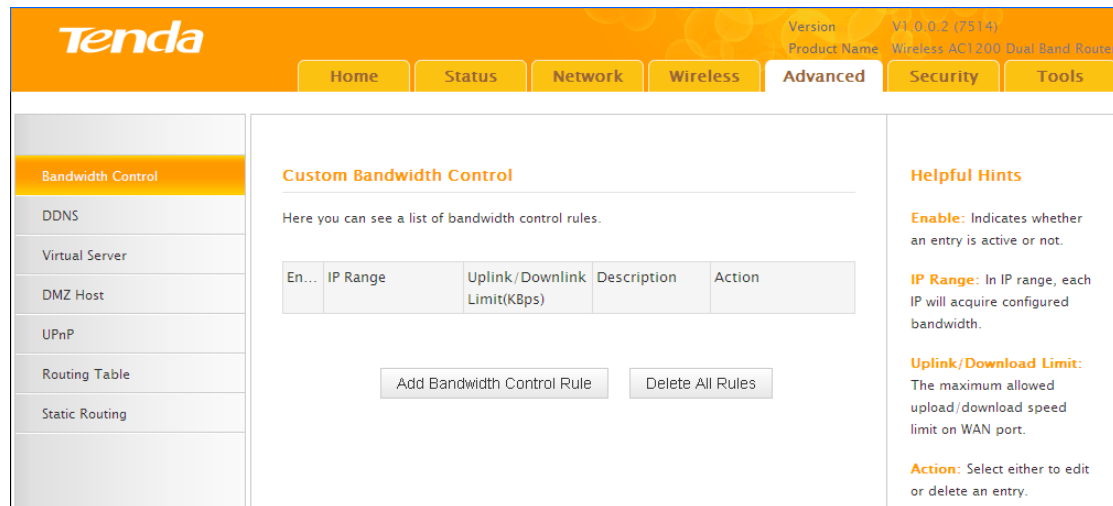
1. 1M=128KByte/s.
  2. The volume of uplink traffic/downlink traffic should not be larger than that allowed on the router's WAN (Internet) port. You can ask your ISP to provide the volume of Internet traffic.
- 

**Bandwidth Control Application Example:**

If you share a 4M-broadband service with your neighbor. He always downloads a large volume of data from Internet, which sharply frustrates your Internet surfing experience; you can use this feature to set limits for the volume of Internet traffic he can get. For example, you can split the 4M into two, so your neighbor can only use up to 2M Internet traffic and you can enjoy 2M. (Assuming the IP address of your neighbor's PC is 192.168.0.100. 2M=256KByte/s)

**Configuration Procedures:**

- ① Click **Advanced** -> **Bandwidth Control**.
- ② Click **Add Bandwidth Control Rule**.



- ③ Enter 192.168.0.100 in the **IP Range** fields.
- ④ Enter 32 in the **Uplink Bandwidth** field.
- ⑤ Enter 256 in the **Downlink Bandwidth** field.
- ⑥ Click **Save** to save your settings.

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Home Status Network Wireless **Advanced** Security Tools

Bandwidth Control

### Custom Bandwidth Control

Here you can see a list of bandwidth control rules.

Enable

IP Range: 192.168.0.100 - 192.168.0.100

Bandwidth Range

Uplink Bandwidth: 32 Kbps

Downlink Bandwidth: 256 Kbps

Description:

Save Cancel

**Helpful Hints**

**Enable:** Indicates whether an entry is active or not.

**IP Range:** In IP range, each IP will acquire configured bandwidth.

**Uplink/Download Limit:** The maximum allowed upload/download speed limit on WAN port.

**Action:** Select either to edit or delete an entry.

⑦ Click **Reboot** on the appearing screen to reboot the router.

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Bandwidth Control

### Hints

To activate new settings, you must reboot the device.

Reboot

**Helpful Hints**

**Enable:** Indicates whether an entry is active or not.

**IP Range:** In IP range, each IP will acquire configured bandwidth.

**Uplink/Download Limit:** The maximum allowed upload/download speed limit on WAN port.

**Action:** Select either to edit or delete an entry.

⑧ Reaccess the device and go to check the rule you just add. Also you can click **Edit** to edit the rule or **Delete** to delete the rule. You can also add more rules.

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Bandwidth Control

### Custom Bandwidth Control

Here you can see a list of bandwidth control rules.

| En... | IP Range                      | Uplink/Downlink Limit(KBps) | Description | Action      |
|-------|-------------------------------|-----------------------------|-------------|-------------|
| Yes   | 192.168.0.100 - 192.168.0.100 | 32/256                      |             | Edit Delete |

Add Bandwidth Control Rule Delete All Rules

**Helpful Hints**

**Enable:** Indicates whether an entry is active or not.

**IP Range:** In IP range, each IP will acquire configured bandwidth.

**Uplink/Download Limit:** The maximum allowed upload/download speed limit on WAN port.

**Action:** Select either to edit or delete an entry.



### 4.3 DDNS

Dynamic DNS or DDNS is a term used for the updating in real time of Internet Domain Name System (DNS) name servers. We use a numeric IP address allocated by Internet Service Provider (ISP) to connect to Internet; the address may either be stable ("static"), or may change from one session on the Internet to the next ("dynamic"). However, a numeric address is inconvenient to remember; an address which changes unpredictably makes connection impossible. The DDNS provider allocates a static host name to the user; whenever the user is allocated a new IP address this is communicated to the DDNS provider by software running on a computer or network device at that address; the provider distributes the association between the host name and the address to the Internet's DNS servers so that they may resolve DNS queries. Thus, uninterrupted access to devices and services whose numeric IP address may change is maintained.

Click **Advanced** -> **DDNS** to enter the DDNS screen.

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Product Name Wireless AC1200 Dual Band Router

Home Status Network Wireless **Advanced** Security Tools

Bandwidth Control  
**DDNS**  
Virtual Server  
DMZ Host  
UPnP  
Routing Table  
Static Routing

**DDNS**

DDNS Service  Enable  Disable

Service Provider  Register

User Name

Password   Display Key

Domain Name

Connection Status Disconnected

Save Cancel

**Helpful Hints**

The DDNS feature allows you to host a server (Web, FTP, Game Server, etc...) using a fixed domain name assigned by a DDNS service provider.

Simply click Register to register a domain name and then enter the user name and password given by the DDNS service provider on this router, and your friends can use this registered domain name to access your local server no matter what your IP address is.



#### Tip

1. To use the DDNS feature, you need to have an account with one of the Service Providers in the drop-down menu first.
2. This router supports 2 DDNS service providers: dyndns and no-ip.

#### DDNS Application Example:





If your ISP gave you a dynamic (changing) public IP address, you want to access your router remotely but you cannot predict what your router's WAN IP address will be, and the address can change frequently. In this case, you can use a commercial Dynamic DNS service. It lets you register your domain to their IP address and forwards traffic directed at your domain to your frequently changing IP address.

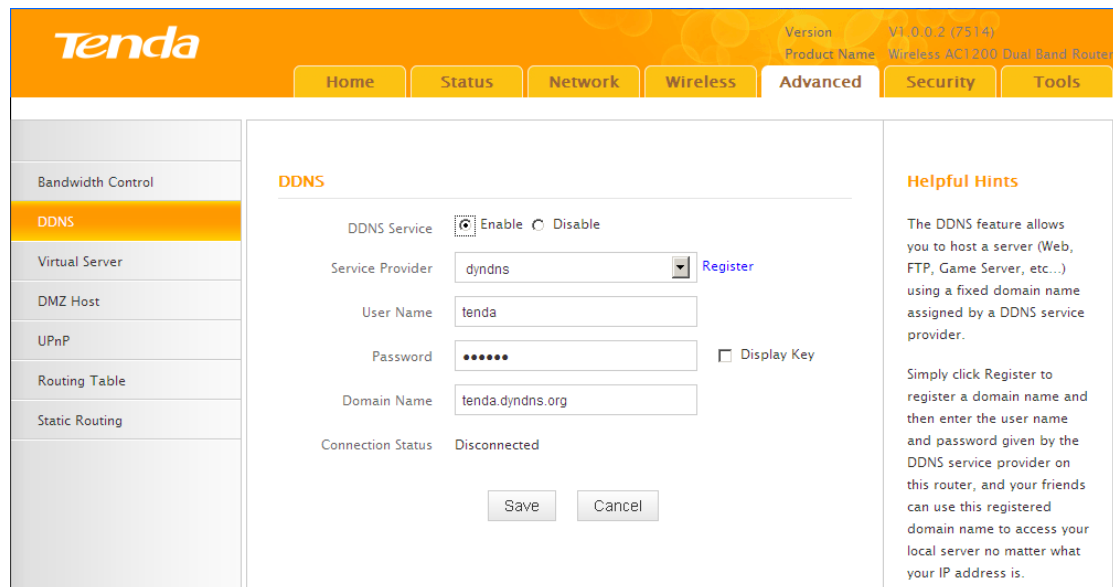
If you obtain the following account from your dyndns.org service provider:

User Name: tenda

Password: 123456

Domain Name: tenda.dyndns.org.

And you want to use the PC at 218.88.93.33 to remotely access this router on port number 8090.



### Configuration Procedures:

- ① **DDNS Service:** Select **Enable**.
- ② **Service Provider:** Select your DDNS service provider from the drop-down menu. Here in this example, select **dyndns**.
- ③ **User Name:** Enter the DDNS user name registered with your DDNS service provider. Here in this example, enter **tenda**.
- ④ **Password:** Enter the DDNS Password registered with your DDNS service

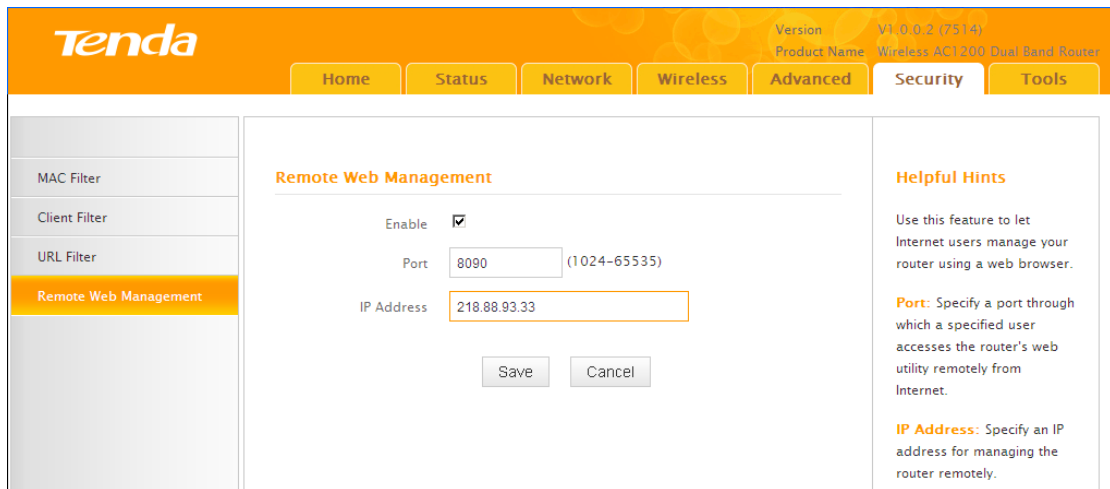


provider. Here in this example, enter 123456.

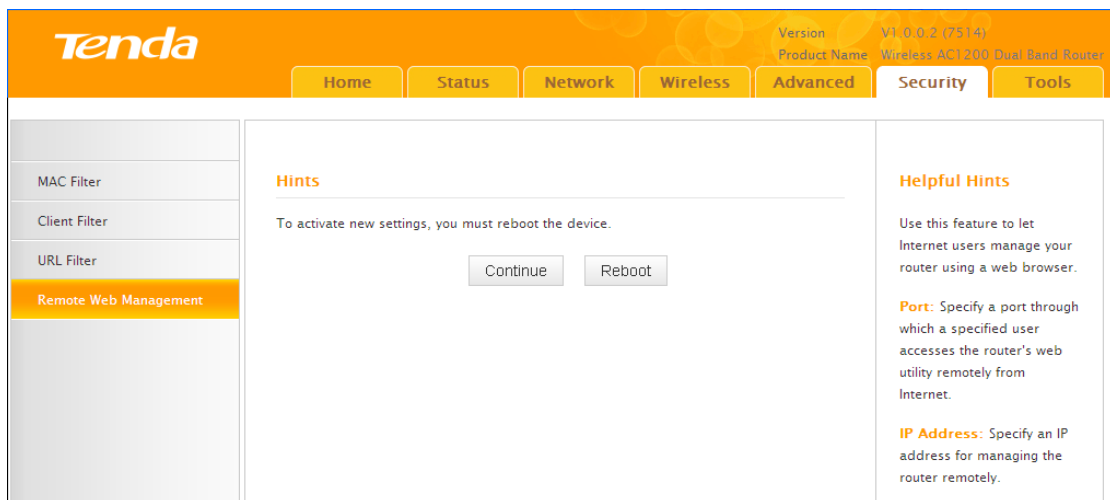
⑤ **Domain Name:** Enter the DDNS domain name with your DDNS service provider. Here in this example, enter `tenda.dyndns.org`.

⑥ Click **Save** to save your settings.

⑦ Click **Security -> Remote Web Management**, enable the Remote Web Management feature, enter **8090** in the **Port** field, **218.88.93.33** in the **IP Address** field and then click **Save** to save your settings.



⑧ Click **Reboot** on the appearing screen to reboot the router.

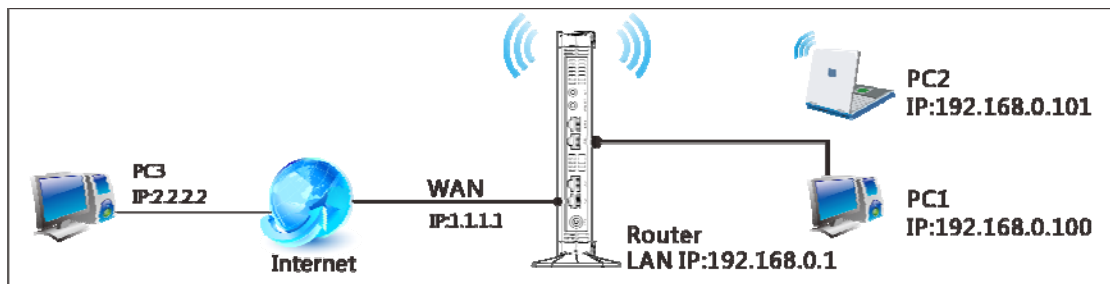


Now you can access the router from the Internet by entering `http://tenda.dyndns.org:8090` in your browser.

## 4.1 Virtual Server

You want to share resources on your PC with your friends who are not in your LAN. But, by default, the router's firewall blocks inbound traffic from the Internet to your computers except replies to your outbound traffic. You can use the Virtual Server feature to create exceptions to this rule so that your friends can access these files from external networks.

Click **Advanced** -> **Virtual Server** to enter the configuration screen.



### Application Example:

As shown in the diagram above, your PC (PC1: 192.168.0.100) connects to the router and runs a FTP server on port number 21. Your friend (PC3) wants to access the FTP server on your PC.



### Tip -----

1. Make sure your WAN IP address (Internet IP address) is a public IP address. Private IP addresses are not routed on the Internet.
  2. Make sure you enter correct service port numbers.
  3. To ensure that your server computer always has the same IP address, assign a static IP address to your PC.
  4. Operating System built-in firewall and some anti-virus programs may block other PCs from accessing resources on your PC. So it is advisable to disable them before using this feature.
-

**Virtual Server**

Virtual Server is useful for web servers, ftp servers, e-mail servers, gaming and other special Internet applications. When enabled, communication requests from Internet to your router's WAN port will be forwarded to the specified LAN IP address. Be sure to statically assign the host's IP for this function to be consistent.

| ID | Ext Port-Int Port | Internal IP   | Protocol | En...                               | De...                    |
|----|-------------------|---------------|----------|-------------------------------------|--------------------------|
| 1  | 21 - 21           | 192.168.0.100 | Both     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2  |                   |               | Both     | <input type="checkbox"/>            | <input type="checkbox"/> |
| 3  |                   |               | Both     | <input type="checkbox"/>            | <input type="checkbox"/> |
| 4  |                   |               | Both     | <input type="checkbox"/>            | <input type="checkbox"/> |
| 5  |                   |               | Both     | <input type="checkbox"/>            | <input type="checkbox"/> |
| 6  |                   |               | Both     | <input type="checkbox"/>            | <input type="checkbox"/> |
| 7  |                   |               | Both     | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8  |                   |               | Both     | <input type="checkbox"/>            | <input type="checkbox"/> |

Well-known Service Port:   ID

Page 1 | 2 | 3 | 4

**Helpful Hints**

**Ext Port – Int Port:** WAN service port.

**Enable:** Select to activate a selected entry.

**Delete:** Click "Delete" and "Save" to remove a selected entry.

**Add to:** Adds a common service port to corresponding fields of a given entry.

**Configuration Procedures:**

- ① **Ext Port:** Enter the external port number for the public ports at the Internet interface. Here in this example, enter 21.
- Int Port:** Enter the internal port number for the private ports at the computer on the router's local area network (LAN). Here in this example, enter 21.
- ② **Internal IP:** Enter the IP address of your local computer that will provide this service. Here in this example, enter 192.168.0.100.
- ③ **Protocol:** Specify the protocol required for the service utilizing the port(s).
- ④ Check **Enable** to activate this rule.
- ⑤ Click **Save** to save your settings.

Now, your friends only need to enter ftp://xxx.xxx.xxx.xxx:21 in their browsers to access your FTP server. xxx.xxx.xxx.xxx is the router's WAN IP address. Assuming it is 172.16.102.89, then your friends need to enter <ftp://202.33.56.88:21> in their browsers.

Note

-----  
If you use the port number 80 here, you must set the port number for remote web management (Click **Tools -> Remote Web Management**) to any port number excluding 80 to avoid collision. Otherwise the port forwarding feature may not be effective.  
-----  
-

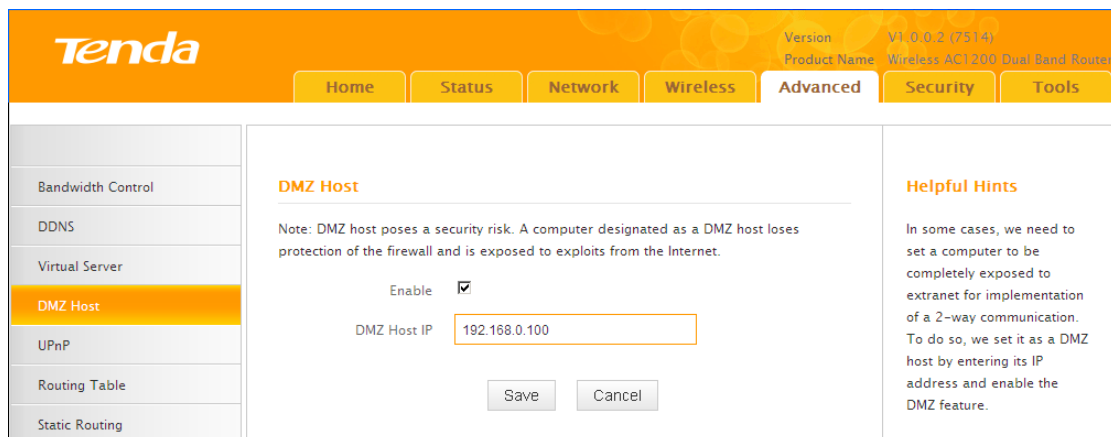
## 4.2 DMZ Host

The DMZ (De-Militarized Zone) function disables the firewall on the router for one device for a special purpose service such as Internet gaming or video conferencing applications that are not compatible with NAT (Network Address Translation).

Click **Advanced -> DMZ Host** to enter the DMZ Host screen.

Note

- 
1. DMZ host poses a security risk. A computer configured as the DMZ host loses much of the protection of the firewall and becomes vulnerable to attacks from external networks.
  2. Hackers may use the DMZ host computer to attack other computers on your network.
- -



### Configuration Procedures:

- ① **Enable:** Check to enable the DMZ host.

② **DMZ Host IP Address:** The IP Address of the device for which the router's firewall will be disabled. Be sure to statically set the IP Address of that device for this function to be consistent.

③ Click **Save** to save your settings.



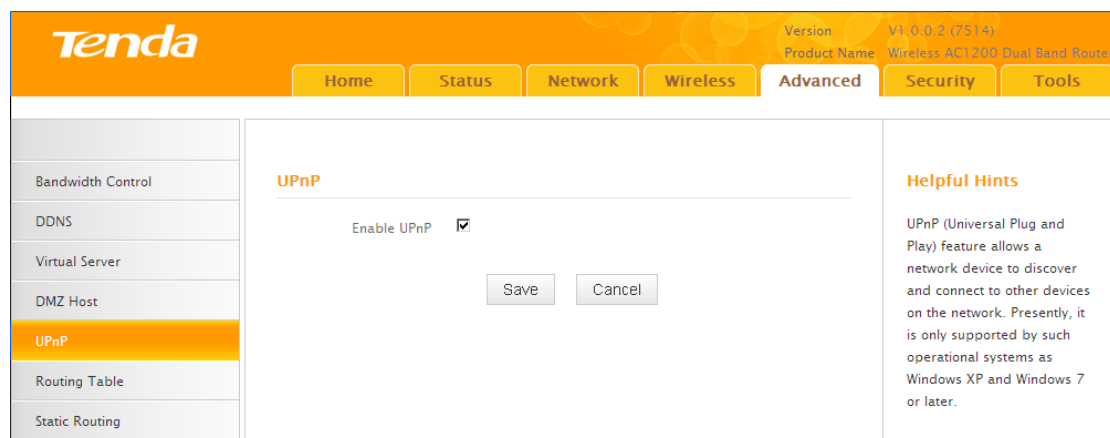
Tip

- 
1. Be sure to statically set the IP Address of the computer that serves as a DMZ host for this function to be consistent.
  2. Security softwares such as anti-virus software and OS built-in firewall, etc may affect the DMZ host feature. Disable them if DMZ host fails.
- 

## 4.4 UPnP

The Universal Plug and Play (UPnP) feature allows network devices, such as computers from Internet, to access resources on local host or devices as needed. UPnP-enabled devices can be discovered automatically by the UPnP service application on the LAN. If you use applications such as multiplayer gaming, peer-to-peer connections, real-time communications such as instant messaging, or remote assistance (a feature in Windows XP), you may need to enable Universal Plug and Play (UPnP) for better experience.

Click **Advanced** -> **UPnP** to enter the UPnP screen. The UPnP feature is enabled by default.



## 4.6 Route Table

Click **Advanced** -> **Route Table** to view the router's route table.

The screenshot shows the Tenda router's web interface. The top navigation bar includes 'Home', 'Status', 'Network', 'Wireless', 'Advanced', 'Security', and 'Tools'. The 'Advanced' tab is selected. On the left sidebar, 'Routing Table' is highlighted. The main content area displays the 'Route Table' with the following data:

| Destination Network | Subnet Mask   | Gateway | metric | Interface |
|---------------------|---------------|---------|--------|-----------|
| 192.168.0.0         | 255.255.255.0 | 0.0.0.0 | 0      | LAN       |
| 192.168.2.0         | 255.255.255.0 | 0.0.0.0 | 0      | LAN       |

Below the table is a 'Refresh' button. To the right, there is a 'Helpful Hints' section with the text: 'This section displays routing info.'



### Knowledge Center -----

1. **Destination Network:** The IP address of the final destination. "0.0.0.0" indicates any network segment.
2. **Subnet Mask:** The subnet mask for the specified destination.
3. **Gateway:** This is the next router on the same LAN segment as the router to reach.
4. **Metric:** This stands for the number of routers between your network and the destination.
5. **Interface:** The interface between your router and the final destination.

## 4.5 Static Route

Static routes provide additional routing information to your router. Typically, you do not need to add static routes. However, when there are several routers in the network, you may want to set up static routing. Static routing determines the path of the data in your network. You can use this feature to allow users on different IP domains to access the Internet via this device. It is not recommended to use this

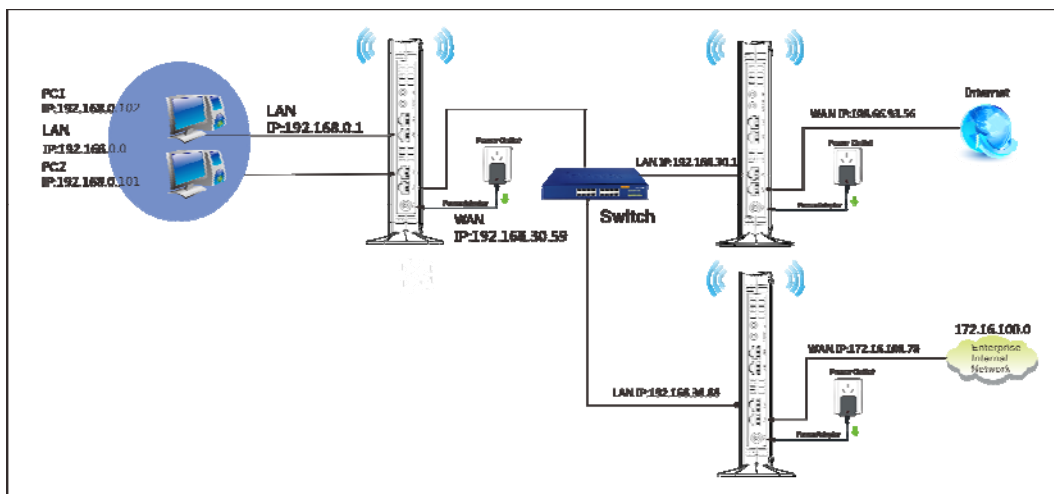


setting unless you are familiar with static routing. In most cases, dynamic routing is recommended, because this feature allows the router to detect the physical changes of the network layout automatically. If you want to use static routing, make sure the router's DHCP function is disabled. Click **Advanced** -> **Static Routing** to enter the configuration screen.



- 
1. Gateway must be on the same IP segment as WAN or LAN segment as the router.
  2. Subnet Mask must be entered 255.255.255.255 if destination IP address is a single host.
- 

### Static Route Application Example - Gateway IP address on the same IP segment as WAN IP:

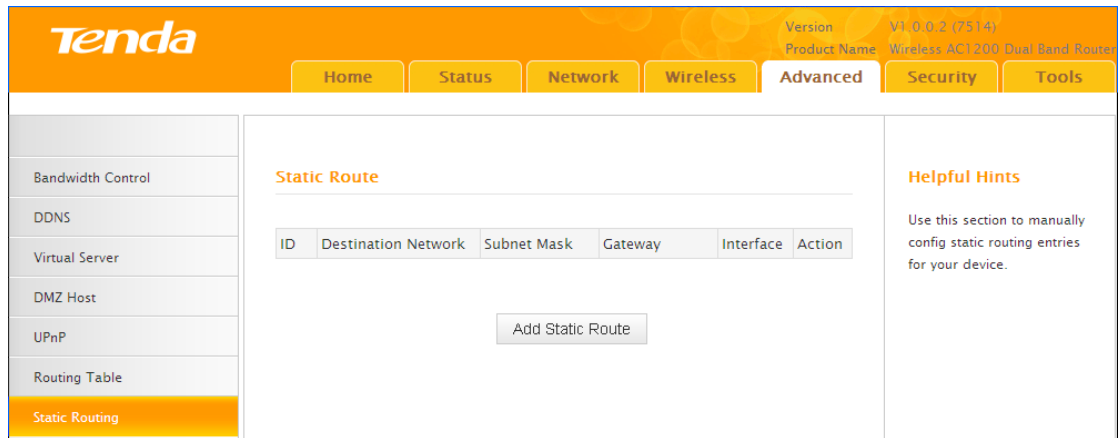


For example, your company internal network and Internet are on different IP net segment and you want PCs on your LAN to access the Internet and your company internal network via the Tenda Router. You can simply configuring static routes on the Tenda Router. The figure above depicts this application scenario.

### Configuration Procedures:

- ① Click **Add Static Route**.





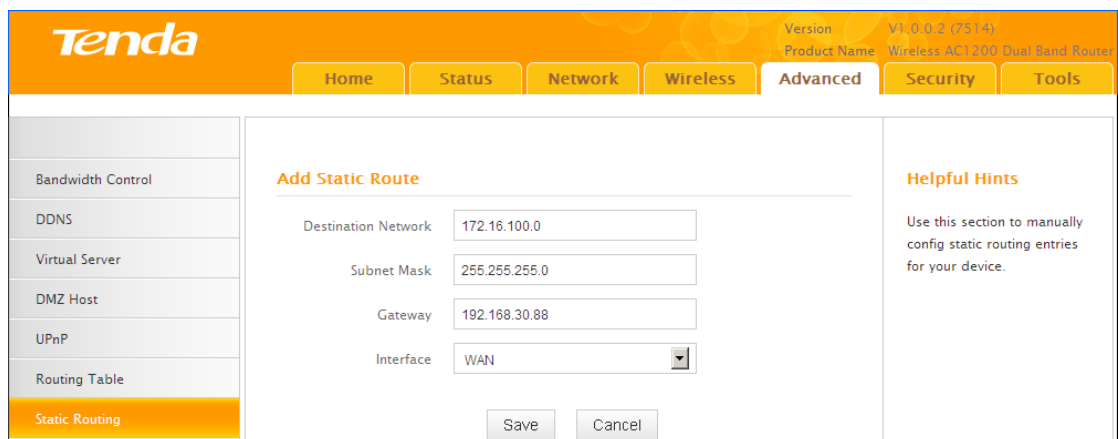
② **Destination Network:** The IP address of the final destination. Enter your corporate internal network IP address: 172.16.100.0.

③ **Subnet Mask:** Enter the subnet mask of your corporate internal network: 255.255.255.0.

④ **Gateway:** Enter the gateway IP address to your corporate internal network: 192.168.30.88

⑤ **Interface:** Select WAN.

⑥ Click **Save** to save your settings.



Click **Advanced** -> **Routing Table** to view your static route entry. If it does not display, go to **Tools** to reboot your router. Enter the router's management interface. When the router successfully connects to the Internet, the following screen will display:

**Tenda** Version V1.0.0.2 (7514)  
Product Name Wireless AC1200 Dual Band Router

Home Status Network Wireless **Advanced** Security Tools

Bandwidth Control  
DDNS  
Virtual Server  
DMZ Host  
UPnP  
**Routing Table**  
Static Routing

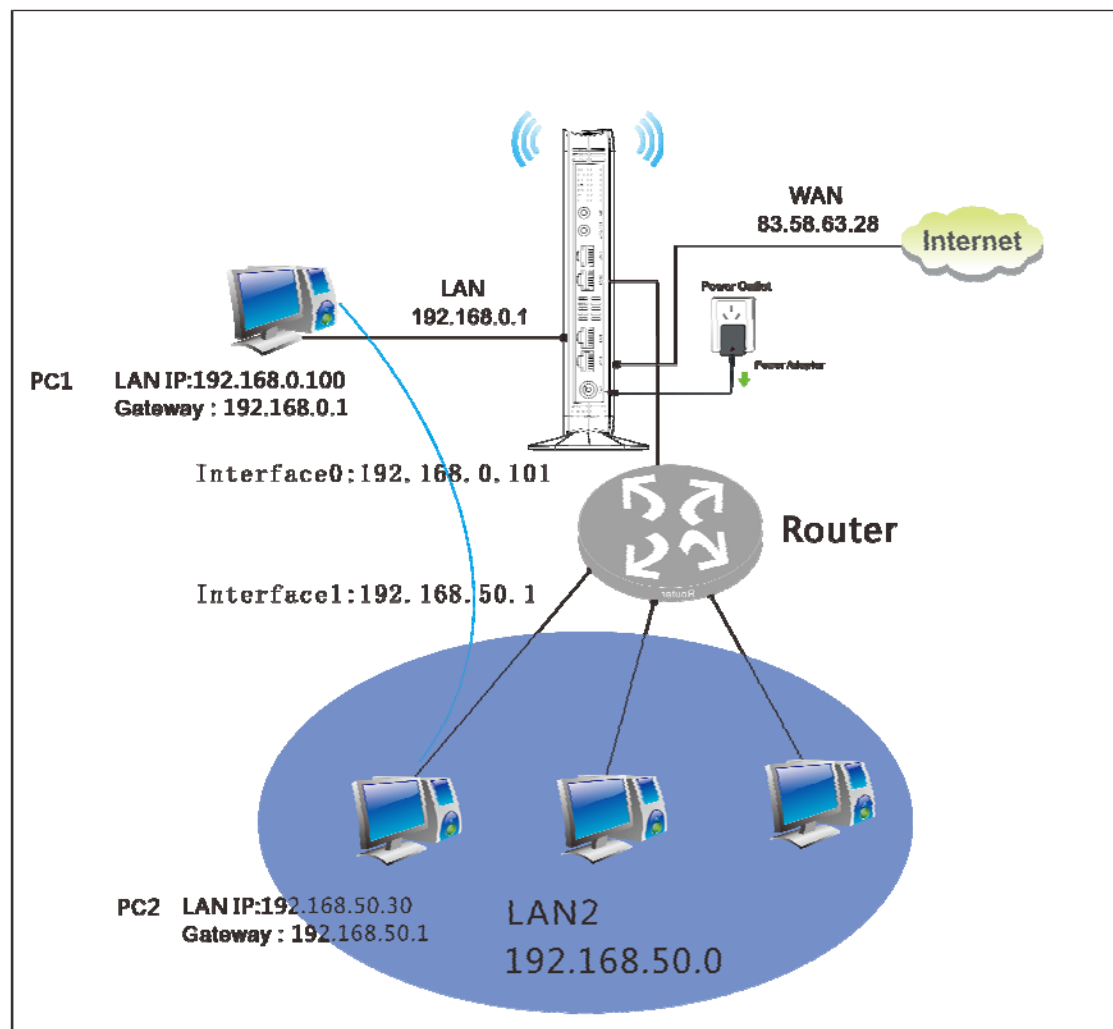
**Route Table**

| Destination Network | Subnet Mask   | Gateway       | metric | Interface |
|---------------------|---------------|---------------|--------|-----------|
| 192.168.0.0         | 255.255.255.0 | 0.0.0.0       | 0      | LAN       |
| 172.16.100.0        | 255.255.255.0 | 192.168.30.88 | 0      | WAN       |

Refresh

**Helpful Hints**  
This section displays routing info.

**Static Route Application Example - Gateway IP address on the same IP segment as LAN IP:**



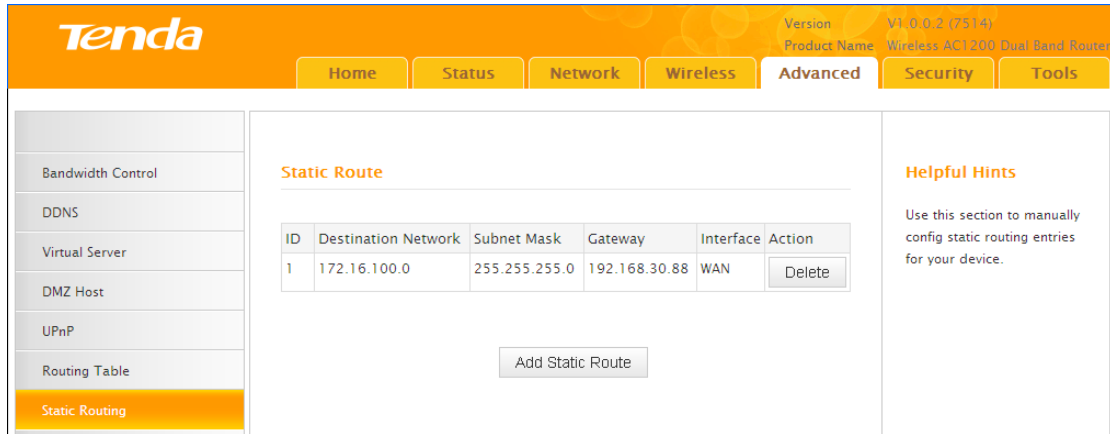
As seen in the above figure, PC2 on LAN2 connects with the Tenda Router via the Router; PC1 on LAN1 accesses Internet via the Tenda Router that performs NAT. You can configure static routes to implement mutual communication between PCs



on LAN1 and LAN2.

### Configuration Procedures:

- ① Click **Add Static Route**.

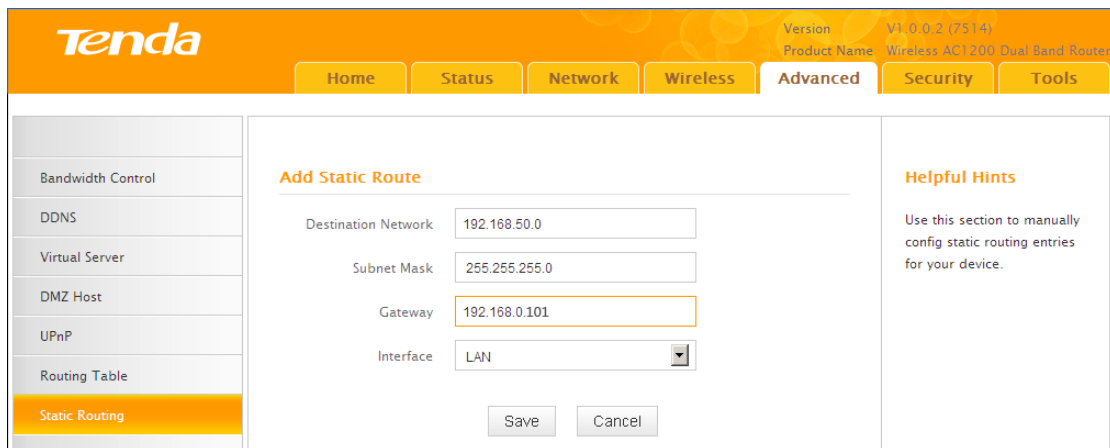


- ② **Destination Network:** Enter 192.168.50.0.

- ③ **Subnet Mask:** Enter 255.255.255.0.

- ④ **Gateway:** Enter 192.168.0.101

- ⑤ Click **Save** to save your settings.



Click **Advanced** -> **Routing Table** to view your static route entry. If it does not display, go to **Tools** to reboot your router. Enter the router's management interface. When the router successfully connects to the Internet, the following screen will display:

The screenshot shows the Tenda router's web interface. At the top, there is a navigation bar with tabs: Home, Status, Network, Wireless, Advanced, Security, and Tools. The 'Advanced' tab is selected. Below the navigation bar, there is a sidebar on the left with options: Bandwidth Control, DDNS, Virtual Server, DMZ Host, UPnP, Routing Table (highlighted), and Static Routing. The main content area is titled 'Route Table' and contains a table with the following data:

| Destination Network | Subnet Mask   | Gateway       | metric | Interface |
|---------------------|---------------|---------------|--------|-----------|
| 192.168.0.0         | 255.255.255.0 | 0.0.0.0       | 0      | LAN       |
| 172.16.100.0        | 255.255.255.0 | 192.168.30.88 | 0      | WAN       |
| 192.168.50.0        | 255.255.255.0 | 192.168.0.101 | 0      | LAN       |

Below the table is a 'Refresh' button. To the right of the table is a 'Helpful Hints' section with the text: 'This section displays routing info.'

## 5 Security

This router provides three security policies: MAC filter, client filter and URL filter.

- To restrict your LAN PCs to access the Internet via their MAC addresses, see [MAC Filter](#).
- To restrict your LAN PCs to access certain services on Internet via their IP addresses, see [Client Filter](#).
- To restrict your LAN PCs to access certain websites on Internet via URL, see [URL Filter](#).

### 5.1 MAC Filter

This section allows you to restrict specific clients to access the Internet via the devices' MAC addresses. Each PC has at least an installed network adapter with a unique MAC address. Three options are available: Disable, Deny and Allow.

**A. Disable:** Disable the MAC Filter feature.

**B. Deny:** Disallow only the devices at specific MAC addresses to access the Internet during the specific time period and/or specific days of the week. Access to Internet during other time period and/or other days of the week are not restricted.

**C. Allow:** Allow only the specified devices to access the Internet during the



specific time period and/or specific days of the week. Access to Internet during other time period and/or other days of the week are denied.

Click **Security** -> **MAC Filter** to enter the configuration screen.

### MAC Filter Application Example:

To allow only the PC at the MAC address of 00:C8:08:F5:E6:06 to access the Internet from Friday to Sunday (18:30-22:30).

The screenshot shows the Tenda router's web interface. The top navigation bar includes 'Home', 'Status', 'Network', 'Wireless', 'Advanced', 'Security', and 'Tools'. The 'Security' tab is active, and the 'MAC Filter' configuration page is displayed. The configuration form includes the following fields and options:

- Filter Mode:** A dropdown menu set to 'Allow'.
- Select:** A dropdown menu set to '(1)'.
- Enable:** A checked checkbox with a 'Clear this item: Clear' button next to it.
- Description:** An empty text input field.
- MAC Address:** A field containing '00 : C8 : 08 : F5 : E6 : 06'.
- Time:** A time range selector set to '18 : 30 ~ 20 : 30'.
- Day:** A row of checkboxes for 'Every day', 'Sun', 'Mon', 'Tue', 'Wed', 'Thur', 'Fri', and 'Sat'. The 'Fri', 'Sat', and 'Sun' checkboxes are checked.

At the bottom of the form are 'Save' and 'Cancel' buttons. To the right of the form is a 'Helpful Hints' section with the following text:

**Helpful Hints**

To better manage computers in your LAN network, you can use the MAC Address Filter feature to control these computers' access to Internet. For details, see User Guide.

To clear an existing filter rule, select it and click the "Clear", and then the "Save" button.

**Deny/Allow:** Disallow/allow specified MACs to access Internet.

**Note:** 00:00-00:00 means all the time.

### Configuration Procedures:

- ① **Filter Mode:** Select **Allow**.
- ② **Select:** Select a rule ID, for example, (1).
- ③ **Enable:** Check to enable this feature.
- ④ **Description:** Briefly describe the current rule. This field is optional. Or if you want to enter it, then enter numbers, letters or underscore only.
- ⑤ **MAC Address:** Specify the MAC address of the computer that you want to restrict, 00:C8:08:F5:E6:06.
- ⑥ **Time:** Specify a time period for the current rule to take effect. Here in this example, select 18:30-22:30. **Day:** Select a day, or several days of the week for the current rule to take effect. Here in this example, select Friday, Saturday and Sunday.
- ⑦ Click **Save** to save your settings.

## 5.2 Client Filter

This section allows you to set the times specific clients can or cannot access the Internet via the devices' assigned IP addresses and service port. Three options are available: Disable, Deny and Allow.

**A. Disable:** Disable the Filter feature.

**B. Deny:** Disallow only the devices at specific IP addresses to access certain services on Internet during the specific time period and/or specific days of the week. Other time period and/or other days of the week are not restricted.

**C. Allow:** Allow only the devices at specific IP addresses to access specific services on Internet during the specific time period and/or specific days of the week. Access to any other services during other time period and/or other days of the week are denied.

Click **Security** -> **Client Filter** to enter the configuration screen.

### Client Filter Application Example:

To prohibit PCs within the IP address range of 192.168.0.100--192.168.0.120 from accessing web pages during the time period of 8:00~18:00 from Monday to Friday

**Tenda** Version V1.0.0.2 (7514)  
Product Name Wireless AC1200 Dual Band Router

Home Status Network Wireless **Advanced** Security Tools

MAC Filter  
**Client Filter**  
URL Filter  
Remote Web Management

### Client Filter

Filter Mode: Deny  
Select: (1)  
Enable:  Clear this item:   
Description:   
Start IP: 192.168.0.100  
End IP: 192.168.0.120  
Port: 80 ~ 80  
Traffic Type: Both  
Time: 8 : 0 ~ 18 : 0  
Day:  Every day  Sun  Mon  Tue  Wed  Thur  Fri  Sat

### Helpful Hints

To better manage computers in LAN, you can use the Client Filter functionality to regulate LAN computers' access to Internet. For details, see User Guide.

To clear an existing filter rule, select it and click the "Clear", and then the "Save" button.

**Deny/Allow:** Disallow/allow a specified IP or IP range to access Internet.

**Note:** 00:00~00:00 means all the time.



### Configuration Procedures:

- ① **Filter Mode:** Select **Deny**.
- ② **Select:** Select a rule ID, for example, (1).
- ③ **Enable:** Check to enable this feature.
- ④ **Description:** Briefly describe the current rule. This field is optional. Or if you want to enter it, then enter numbers, letters or underscore only, for example, 80.
- ⑤ **Start IP:** Enter a starting IP address. Here in this example, enter 192.168.0.100. **End IP:** Enter an ending IP address. Here in this example, enter 192.168.0.120.
- ⑥ **Port:** Enter a service port number. Here in this example, enter 80.
- ⑦ **Traffic Type:** Select **Both**.
- ⑧ **Time:** Specify a time period for the current rule to take effect. Here in this example, select 8:00~18:00. **Day:** Select a day, or several days of the week for the current rule to take effect. Here in this example, select Mon, Tue, Wed, Thur and Fri.
- ⑨ Click **Save** to save your settings.

## 5.3 URL Filter

To better control LAN PCs, you can use the URL filter functionality to allow or disallow such PCs to access certain websites within a specific time period and/or specific days of the week. Three options are available: Disable, Deny and Allow.

**A. Disable:** Disable the URL Filter feature.

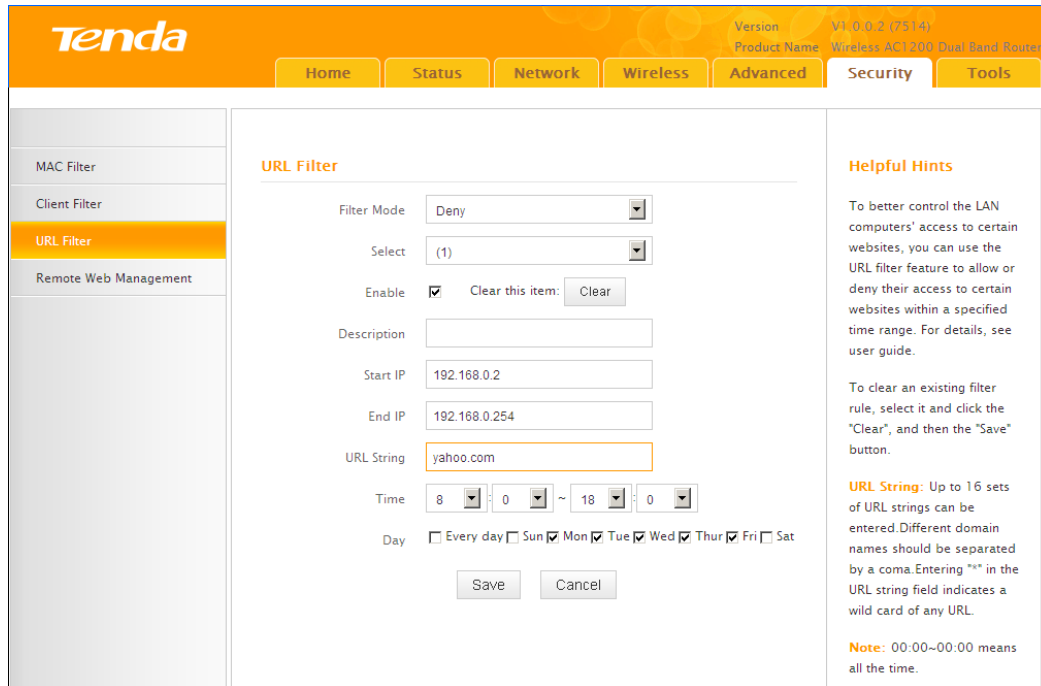
**B. Deny:** Disallow only the devices at specific IP addresses to access certain services on Internet during the specific time period and/or specific days of the week. Other time period and/or other days of the week are not restricted.

**C. Allow:** Allow only the devices at specific IP addresses to access specific services on Internet during the specific time period and/or specific days of the week. Access to any other services during other time period and/or other days of the week are denied.

Click **Security** -> **URL Filter** to enter the configuration screen.

### URL Filter Application Example:

If you want to disallow all computers on your LAN to access “yahoo.com” from 8 : 00 to 18 : 00 during working days: Monday- Friday, then do as follows:



- ① **Filter Mode:** Select **Deny**.
- ② **Enable:** Check to enable this feature.
- ③ **Select:** Select a rule ID, for example, (1).
- ④ **Description:** Briefly describe the current rule, say, yahoo, (It can only consist of numbers, letters, or underscore). This field is optional.
- ⑤ **Start IP/End IP:** Enter 2-254.
- ⑥ **URL String:** Enter yahoo.
- ⑦ **Time:** Specify a time period for the current rule to take effect. Here in this example, select 8:00~18:00. **Day:** Select a day, or several days of the week for the current rule to take effect. Here in this example, select Mon, Tue, Wed, Thur and Fri.
- ⑧ Click **Save** to save your settings.



Note -----

Each entry can include up to 16 URL keywords, each of which must be





separated by ", ".

## 5.4 Remote Web Management

The Remote management allows the device to be configured and managed remotely from the Internet via a web browser.

Click **Security** -> **Remote Web Management** to enter the configuration screen.



Tip -----

1 For better security, customize a port number between 1024-65535 for the remote web management interface, do not use the number of any common service port (1-1024).

2. Make sure your WAN IP address (Internet IP address) is a public IP address. Private IP addresses are not routed on the Internet.

3. It is unsafe to make your router remotely accessible to all PCs on external network. For better security, we suggest that only enter the IP address of the PC for remote management.

-----

### Remote Web Management Application Example:

To access your router (WAN IP address: 102.33.66.88) at your home from the PC (218.88.93.33) at your office via the port number 8080

The screenshot shows the Tenda router's web interface. At the top, there's a navigation bar with tabs: Home, Status, Network, Wireless, Advanced, Security, and Tools. The 'Security' tab is selected. On the left, there's a sidebar with options: MAC Filter, Client Filter, URL Filter, and Remote Web Management (which is highlighted). The main content area is titled 'Remote Web Management'. It has an 'Enable' checkbox that is checked. Below it, there's a 'Port' field with the value '8080' and a range '(1024-65535)'. There's also an 'IP Address' field with the value '218.88.93.33'. At the bottom of this section are 'Save' and 'Cancel' buttons. To the right of the main content area, there's a 'Helpful Hints' section with text explaining the feature and providing instructions for the 'Port' and 'IP Address' fields.

### Configuration Procedures:

- ① Check "Enable".
- ② Enter 8080.
- ③ Enter 218.88.93.33.
- ④ Click **Save** to save your settings.

Type `http://102.33.66.88:8080` into your browser's address or location field and



you can access the router at your home remotely.



## Knowledge Center -----

1. Port: This is the management port to be open to outside access. The default setting is 8080. This can be changed.
  2. IP Address: Here you can specify the IP address for remote management (When set to 0.0.0.0, the device becomes remotely accessible to all the PCs on Internet or other external networks).
- 

## 6 Tools

### 6.1 Logs

Click **Tools** -> **Logs** to enter the logs screen. The Logs option allows you to view all events that occur upon system startup. **View Log Levels:** There are three types of logs available.

**Tenda** Version V1.0.0.2 (7514)  
Product Name Wireless AC1200 Dual Band Router

Home Status Network Wireless Advanced Security **Tools**

**Logs**

Traffic Statistics  
Time  
Change Password  
Backup  
Restore  
Firmware Update  
Restore to Factory Default  
Reboot

**Logs**

Here you can view the history of the device's actions.

View Log Levels

| Index | Time                | Type   | Log Contents                            |
|-------|---------------------|--------|---|
| 12    | 2013-08-19 14:55:06 | system | Sync time success!                      |
| 11    | 2013-08-19 14:24:57 | system | Sync time success!                      |
| 10    | 2000-01-01 00:00:28 | system | wan up                                  |
| 9     | 2000-01-01 00:00:25 | wan    | Get Client IP Address (192.168.10.1...  |
| 8     | 2000-01-01 00:00:25 | system | broadcasting ARPPOP_REQUEST ,return ... |
| 7     | 2000-01-01 00:00:20 | system | broadcasting ARPPOP_REQUEST for 192.... |
| 6     | 2000-01-01 00:00:20 | wan    | Dhcp_ack received from (192.168.10...   |
| 5     | 2000-01-01 00:00:20 | wan    | Broadcasting Dhcp_request for (192....  |
| 4     | 2000-01-01 00:00:20 | wan    | Dhcp_offer Received from (192.168....   |
| 3     | 2000-01-01 00:00:07 | wan    | Broadcasting Dhcp_discover              |
| 2     | 2000-01-01 00:00:02 | system | wifi up                                 |
| 1     | 2000-01-01 00:00:01 | system | System start success                    |

Refresh Clear

**Helpful Hints**

This section allows you to view all events that occur upon system startup. The device records a maximum of 200 log entries.

**Note:** Logs will be cleared automatically when reaching the limit of 200 entries (14 pages).



Here you can view the history of the device's actions.

Up to 150 entries can be logged. After 150 entries, you can click **Refresh** to update the logs or click **Clear** to clear the earliest logs.

## 6.2 Traffic Statistics

Click **Tools** -> **Traffic Statistics** to enter the Traffic Statistics screen. Traffic Statistics meter allows you to monitor and view the volume of traffic used by LAN devices.



Tip

-----  
If you suspect some PCs behind your router are consuming a large volume of bandwidth (downloading videos, etc.) you can enable this Traffic Statistics meter feature to find out which PCs are overusing the traffic. Enabling the Traffic Statistics feature may degrade the router's performance. Do not enable it unless necessary.  
-----

### Configuration Procedures:

- ① Check **Enable Traffic Statistics**.

Version: V1.0.0.2 (7514)  
Product Name: Wireless AC1200 Dual Band Router

Home Status Network Wireless Advanced Security Tools

Logs  
Traffic Statistics  
Time  
Change Password  
Backup  
Restore  
Firmware Update  
Restore to Factory Default  
Reboot

### Traffic Statistics

Enable Traffic Statistics

Rate Unit: KB/s      Display in Order

Refresh    Clear      Display in descending order of do...

| ID | IP Address | TX Bytes | RX Bytes | Uplink Rate | Downlink Rate | Connections |
|----|------------|----------|----------|-------------|---------------|-------------|
|----|------------|----------|----------|-------------|---------------|-------------|

Save    Cancel

### Helpful Hints

Statistics displays traffic usage by PCs on your LAN.

② Click **Save** to save your settings.

The screenshot shows the Tenda router's web interface. The top navigation bar includes 'Home', 'Status', 'Network', 'Wireless', 'Advanced', 'Security', and 'Tools'. The left sidebar lists various system functions, with 'Traffic Statistics' highlighted. The main content area is titled 'Traffic Statistics' and contains the following elements:

- 'Enable Traffic Statistics' checkbox:
- 'Rate Unit: KB/s' label
- 'Display in Order' label
- 'Refresh' and 'Clear' buttons
- 'Display in descending order of do...' dropdown menu
- A table with the following columns: ID, IP Address, TX Bytes, RX Bytes, Uplink Rate, Downlink Rate, and Connections.
- 'Save' and 'Cancel' buttons at the bottom.

On the right side, there is a 'Helpful Hints' section with the text: 'Statistics displays traffic usage by PCs on your LAN.'

③ Click **Reboot** on the appearing screen to reboot the router.

The screenshot shows the Tenda router's web interface after clicking 'Save'. The main content area is titled 'Hints' and contains the following elements:

- A message: 'To activate new settings, you must reboot the device.'
- 'Continue' and 'Reboot' buttons.

The right side still shows the 'Helpful Hints' section with the text: 'Statistics displays traffic usage by PCs on your LAN.'

The following screen appears after reboot.

The screenshot shows the Tenda router's web interface after a reboot. The 'Traffic Statistics' section is active, and the table now contains one data row:

| ID | IP Address    | TX Bytes | RX Bytes | Uplink Rate | Downlink Rate | Connections |
|----|---------------|----------|----------|-------------|---------------|-------------|
| 1  | 192.168.0.100 | 0M       | 0M       | 0.00        | 0.00          | 4294967295  |

The rest of the interface, including the 'Hints' section and navigation tabs, remains the same as in the previous screenshot.



1. **IP Address:** Displays the IP addresses of the PCs that have connected to the device.
  2. **Uplink Rate:** Displays the upload speed (KByte/s) of a corresponding PC.
  3. **Downlink Rate:** Displays the download speed (KByte/s) of a corresponding PC.
  4. **TX Bytes:** The number of bytes transmitted by a corresponding PC upon traffic statistics meter startup. The unit is M.
  5. **RX Bytes:** The number of bytes received by a corresponding PC upon traffic statistics meter startup. The unit is M.
  6. **Connections:** The number of clients that connect to this router.
- 

## 6.3 Time

Click **Tools** -> **Time** to enter the time screen.

### A. Sync with Internet time servers

Note that the GMT time is obtained only when Device is connected to Internet. You can also configure the system time manually.

The screenshot shows the Tenda router's web interface for the 'Time' configuration page. The top navigation bar includes 'Home', 'Status', 'Network', 'Wireless', 'Advanced', 'Security', and 'Tools'. The left sidebar contains 'Logs', 'Traffic Statistics', 'Time' (highlighted), 'Change Password', 'Backup', 'Restore', 'Firmware Update', 'Restore to Factory Default', and 'Reboot'. The main content area is titled 'Time' and contains the following elements:

- A description: "This section assists you in setting the device current time; you can either select to set the time and date manually or update it from Internet automatically."
- A checked checkbox for "Sync with Internet time servers".
- A "Sync Interval" dropdown menu set to "30 minutes".
- A note: "Note: GMT time will be updated automatically only when the device is connected to Internet".
- A "Time Zone" dropdown menu set to "(GMT+08:00)Beijing, Chongqing, Hong Kong, Urumqi".
- A "Set Time and Date Manually" section with input fields for Year (2013), Month (08), Day (19), Hour (15), Minute (05), and Second (09).
- A "Sync with Your PC" button.
- "Save" and "Cancel" buttons at the bottom.

On the right side, there is a "Helpful Hints" section with a note: "Note: The configured time and date information lose when the device is powered off. However, it will be updated automatically when the router connects to the Internet. To activate time-based features (e.g. firewall), the time and date info shall be set correctly first, either manually or automatically."

### Configuration Procedures:

- ① Select your time zone.
- ② Click **Save** to save your settings.

## B. Set Time and Date Manually/Sync with Your PC

The screenshot shows the Tenda router's web interface. At the top, there's a navigation bar with tabs: Home, Status, Network, Wireless, Advanced, Security, and Tools. The 'Tools' tab is selected. On the left, there's a sidebar menu with options: Logs, Traffic Statistics, Time (highlighted), Change Password, Backup, Restore, Firmware Update, Restore to Factory Default, and Reboot. The main content area is titled 'Time'. It contains a checkbox for 'Sync with Internet time servers' which is unchecked. Below it is a 'Sync Interval' dropdown menu set to '30 minutes'. A note states: 'Note: GMT time will be updated automatically only when the device is connected to Internet'. The 'Time Zone' is set to '(GMT+08:00)Beijing, Chongqing, Hong Kong, Urumqi'. Under 'Set Time and Date Manually', the time is set to 2013 Year 08 Month 19 Day 15 Hour 05 Minute 09 Second. There are buttons for 'Sync with Your PC', 'Save', and 'Cancel'. On the right, there's a 'Helpful Hints' section with a note: 'Note: The configured time and date information lose when the device is powered off. However, it will be updated automatically when the router connects to the Internet. To activate time-based features (e.g. firewall), the time and date info shall be set correctly first, either manually or automatically.'

### Configuration Procedures:

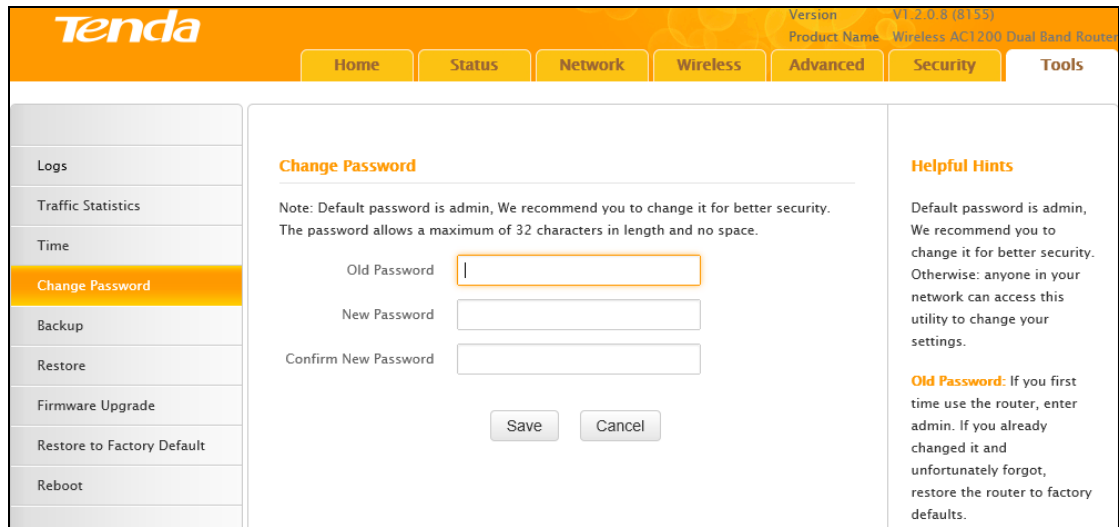
- ① Specify the time and date manually or click the **Sync with Your PC** to automatically copy your PC's time to the device.
- ② Click **Save** to save your settings.

## 6.4 Change Password

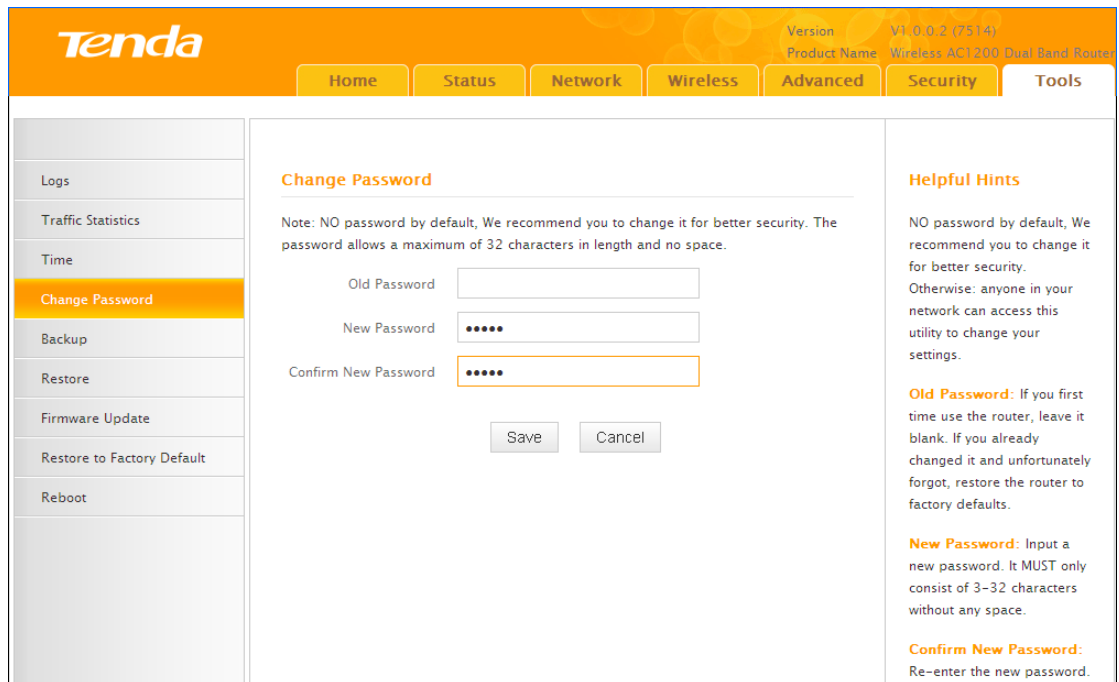
Click **Tools -> Change Password** to enter the configuration screen. Here you can change the login password. It is strongly recommended that you change the factory default login password. Otherwise, anyone in your network can access this utility to change your settings.

For example, if you want to change the login password to "tenda", do as follows:

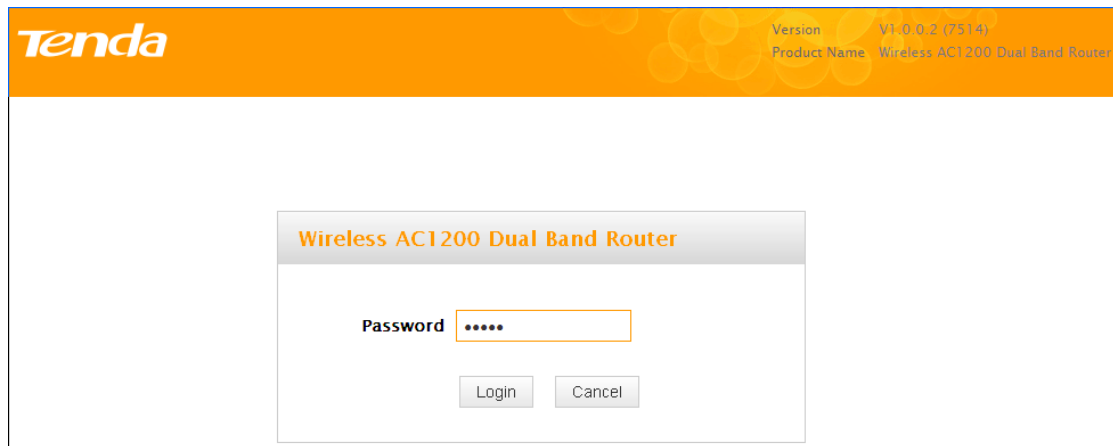
### Configuration Procedures:



- ① **Old Password:** Input the old login password.
- ② **New Password:** Input a new password. Here in this example, enter "qpcom".
- ③ **Confirm New Password:** Re-enter the new password for confirmation. Here in this example, enter "qpcom".
- ④ Click **Save** to save your settings.




- ⑤ Click **OK** on the appearing window.
- ⑥ System will automatically enter the login window if you click **OK**. Enter the new login password of "tenda" and click **Login** to enter the device's configuration interface.



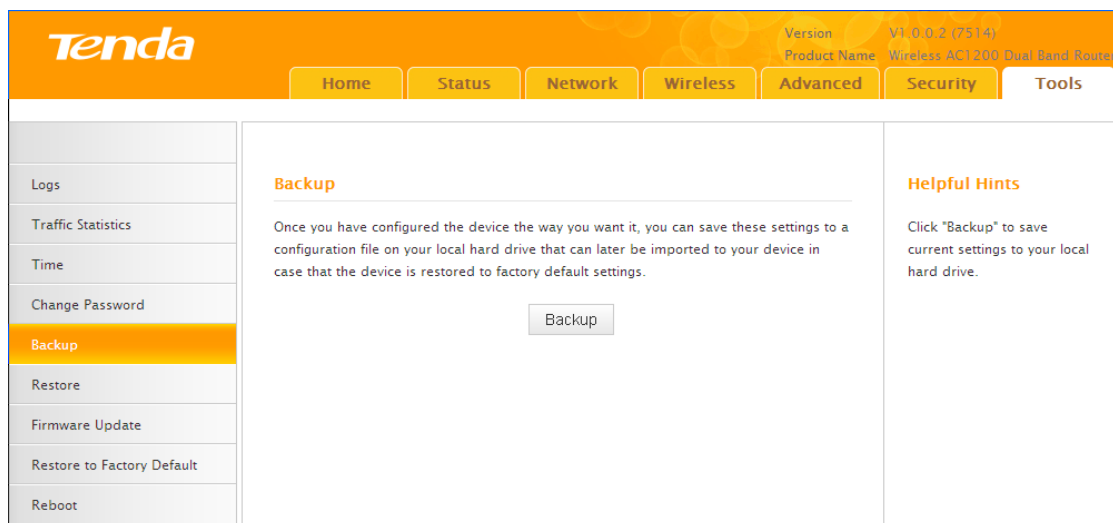
## 6.5 Backup

**Backup:** Once you have configured the device the way you want it, you can save these settings to a configuration file on your local hard drive that can later be imported to your device in case that the device is restored to factory default settings. Click **Tools** -> **Backup** to enter the configuration screen.

 **Tip** -----  
 The default configuration file name is "RouterCfm.cfg". Do include the file name suffix of ".cfg" when renaming the file name to avoid problems.  
 -----

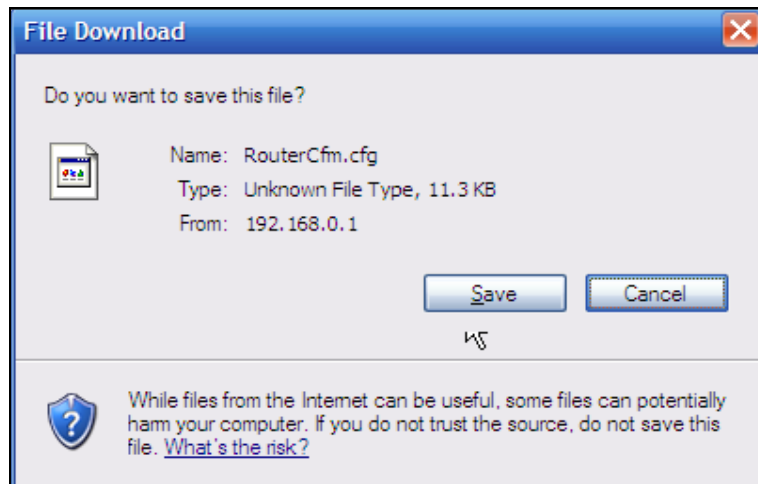
### Configuration Procedures:

- ① Click **Backup**.

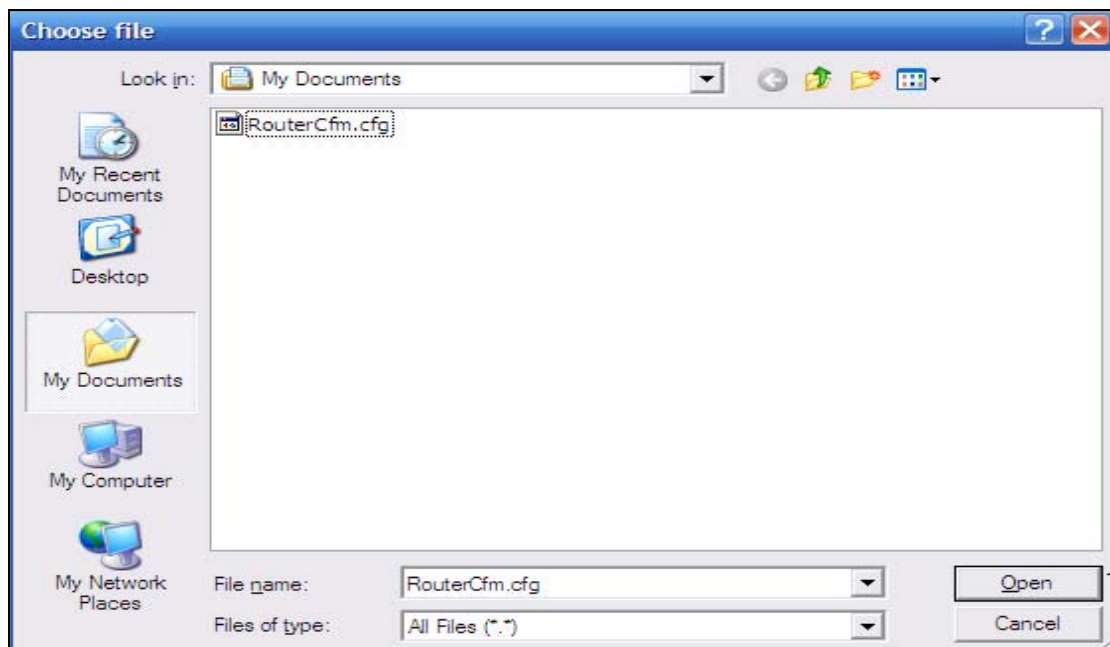


- ② Click **OK** on the appearing window.
- ③ Click **Save** on the **File Download** window.





- ④ Select a local hard drive to save the file and click **Save**.

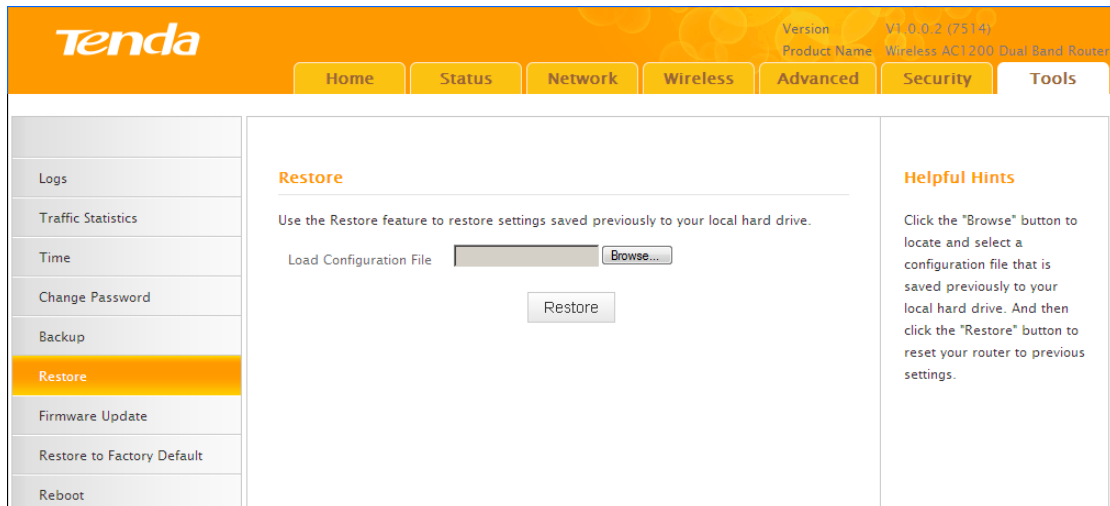


## 6.6 Restore

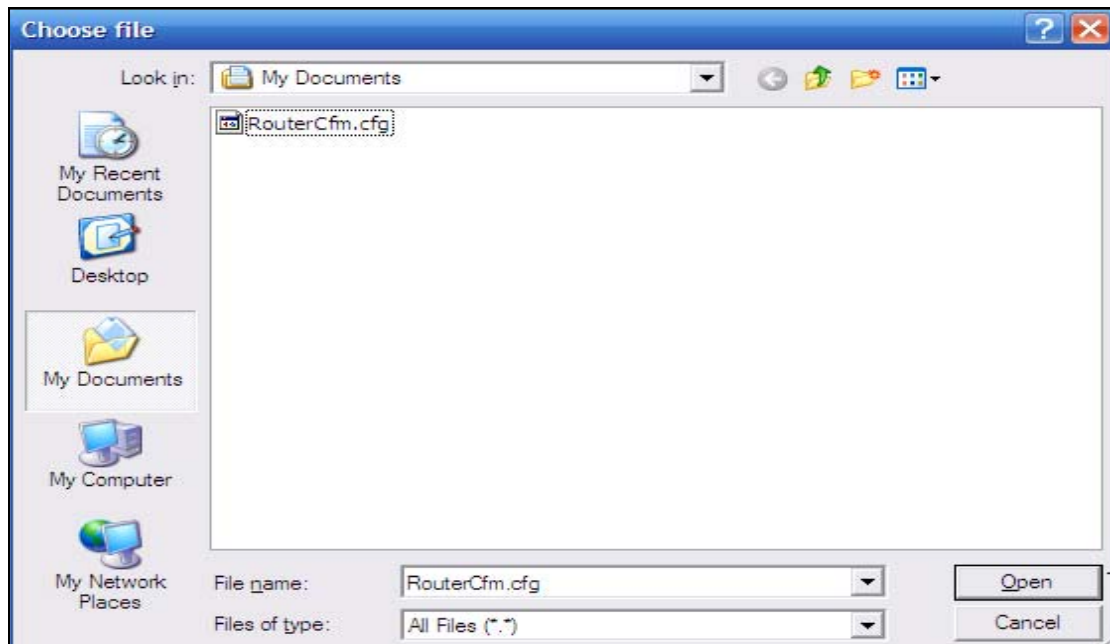
Click **Tools** -> **Restore** to enter the configuration screen.

### Configuration Procedures:

- ① Click **Browse**.



- ② Select the configuration file that is saved previously to your local hard drive and click **Open**.



- ③ Click the **Restore** button to reset your device to previous settings.

## 6.7 Firmware Update

Click **Tools** -> **Firmware Update** to enter the configuration screen. Firmware upgrade is released periodically to improve the functionality of your device and also to add new features. If you run into a problem with a specific feature of the device, log on to our website ([www.tendacn.com](http://www.tendacn.com)) to download the latest firmware to update your device. When upgrade is complete, the device restarts automatically.



Update takes a few minutes. Please wait. If you run into a problem with a specific feature of the device, log on to our website ([www.tendacn.com](http://www.tendacn.com)) to download the latest firmware to update your device.



Note -----

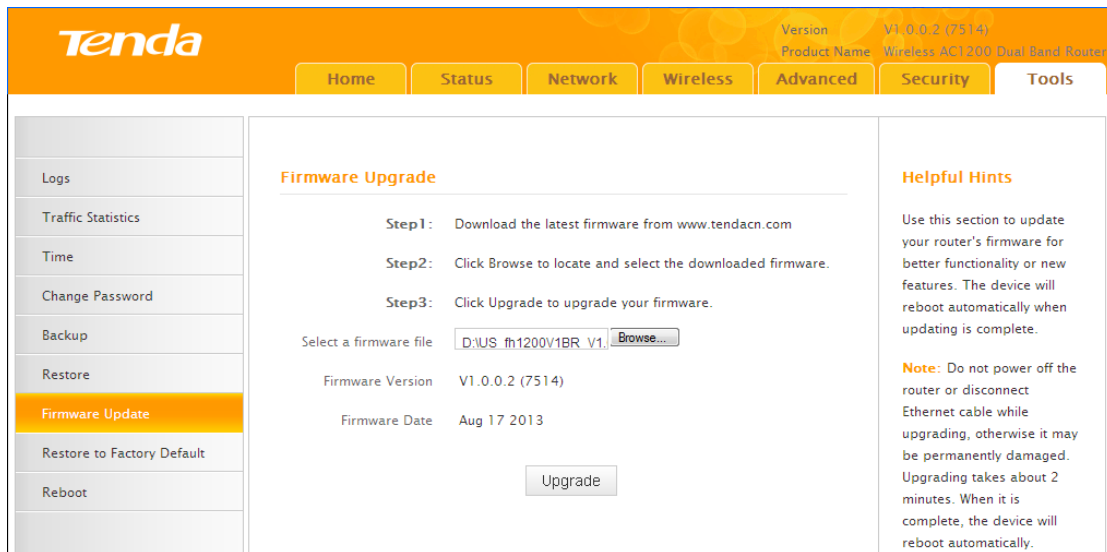
- 1 Before you upgrade the firmware, make sure you are having a correct firmware. A wrong firmware may damage the device.
2. Do NOT upgrade the firmware wirelessly or disconnect device from power supply while firmware update is in process. Note that you need to update the device's firmware via a wired connection.

### Configuration Procedures:

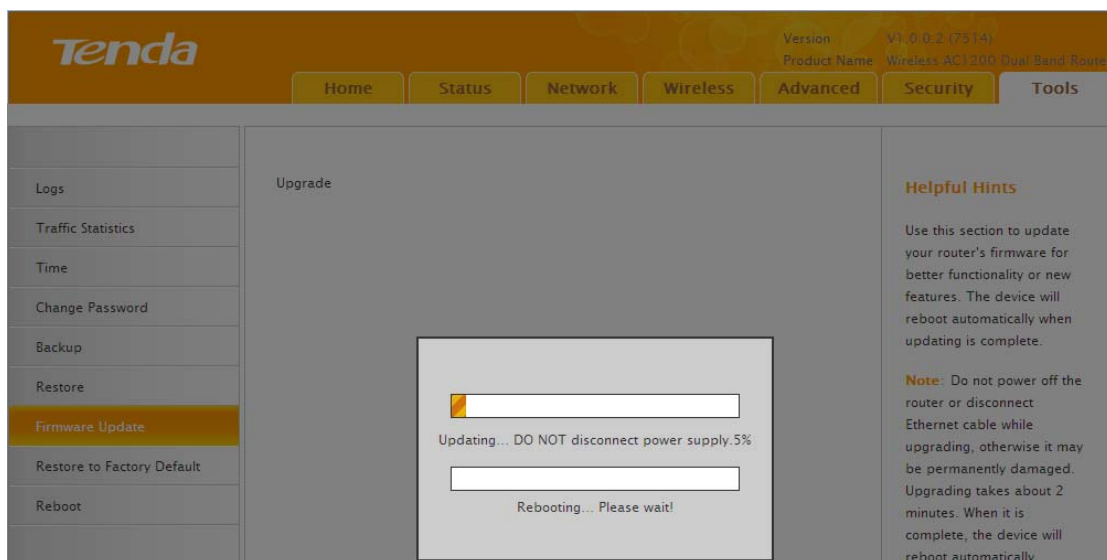
- ① Click **Browse**.

The screenshot displays the Tenda router's web interface for the Firmware Upgrade process. The interface includes a sidebar with navigation options, a main content area with three steps, a file selection field, and a helpful hints section.

- ② Select the upgrade file and click **Open**.
- ③ Click **Upgrade** (or **Update**).



- ④ Click **OK** on the appearing window.
- ⑤ An upgrade progress indicator bar appears during the upgrade process. When upgrade is complete, the device restarts automatically.



## 6.8. Restore to Factory Default Settings

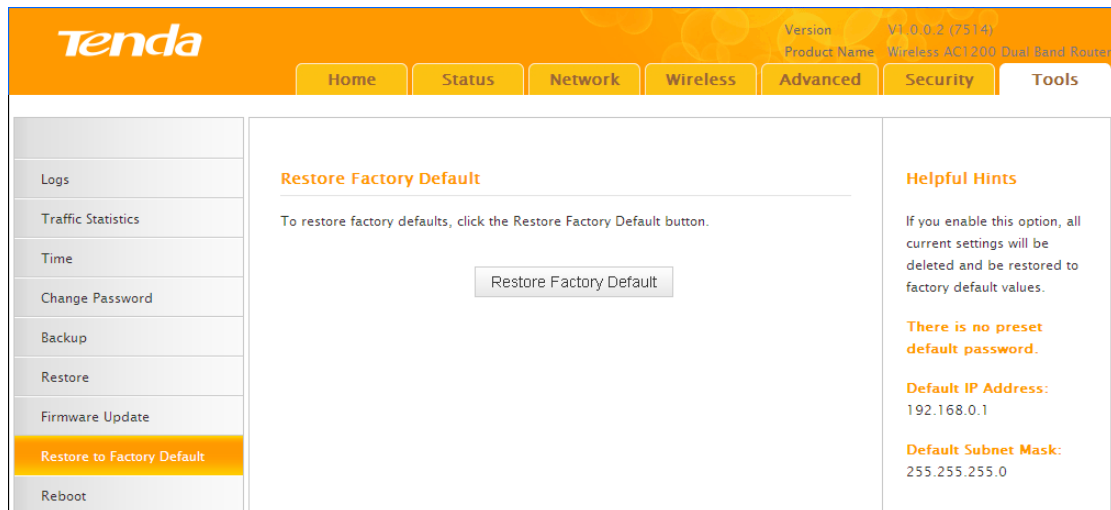
Click **Tools -> Restore to Factory Default** to enter the configuration screen. Here you can reset the device to factory default settings.

 **Note** -----

1. If you enable this option, all current settings will be deleted and be restored to factory default values. You will have to reconfigure Internet connection settings and wireless settings.
2. Do not restore factory default settings unless the following happens:



- You need to join a different network or unfortunately forget the login password.
- You cannot access the Internet and Tenda technical staff asks you to reset the router.



Click the **Restore Factory Default** button to reset the device to factory default settings.

- Default IP Address: 192.168.0.1
- Default Subnet Mask: 255.255.255.0

## 6.9 Reboot

Click **Tools -> Reboot** to enter the configuration screen. This section allows you to reboot the device.

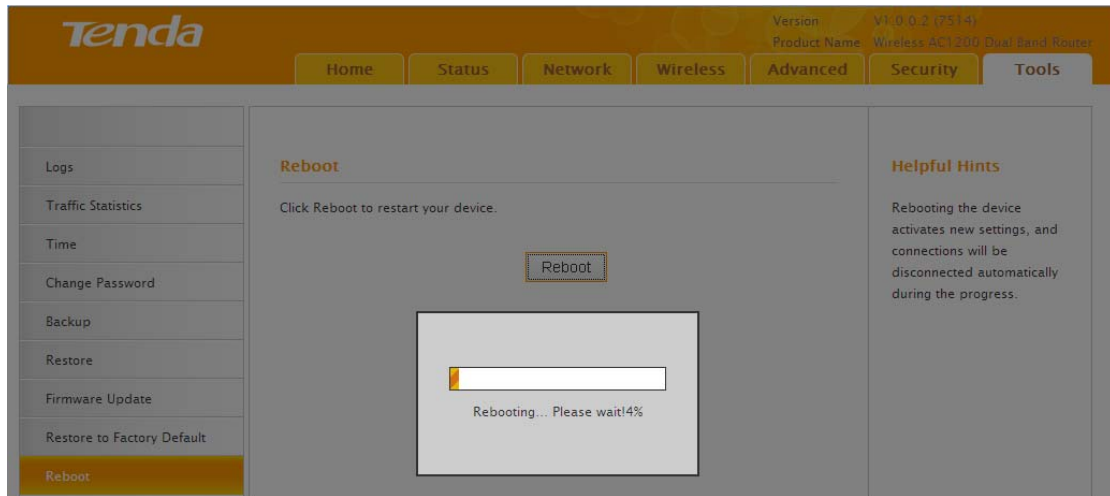
- ① Click **Reboot**.

|                          |  |   |
|--------------------------|--|---|
| <b>Tenda</b>             |  | Version V1.0.0.2 (7514)                       |
|                          |  | Product Name Wireless AC1200 Dual Band Router |
| <a href="#">Home</a>     |  | <a href="#">Status</a>                        |
| <a href="#">Network</a>  |  | <a href="#">Wireless</a>                      |
| <a href="#">Advanced</a> |  | <a href="#">Security</a>                      |
| <a href="#">Tools</a>    |  |   |

|                            |  |  |
|----------------------------|--|--|
| Logs                       | <h3>Reboot</h3> <p>Click Reboot to restart your device.</p> <p style="text-align: center;"><input type="button" value="Reboot"/></p> | <h3>Helpful Hints</h3> <p>Rebooting the device activates new settings, and connections will be disconnected automatically during the progress.</p> |
| Traffic Statistics         |  |  |
| Time                       |  |  |
| Change Password            |  |  |
| Backup                     |  |  |
| Restore                    |  |  |
| Firmware Update            |  |  |
| Restore to Factory Default |  |  |
| <b>Reboot</b>              |  |  |

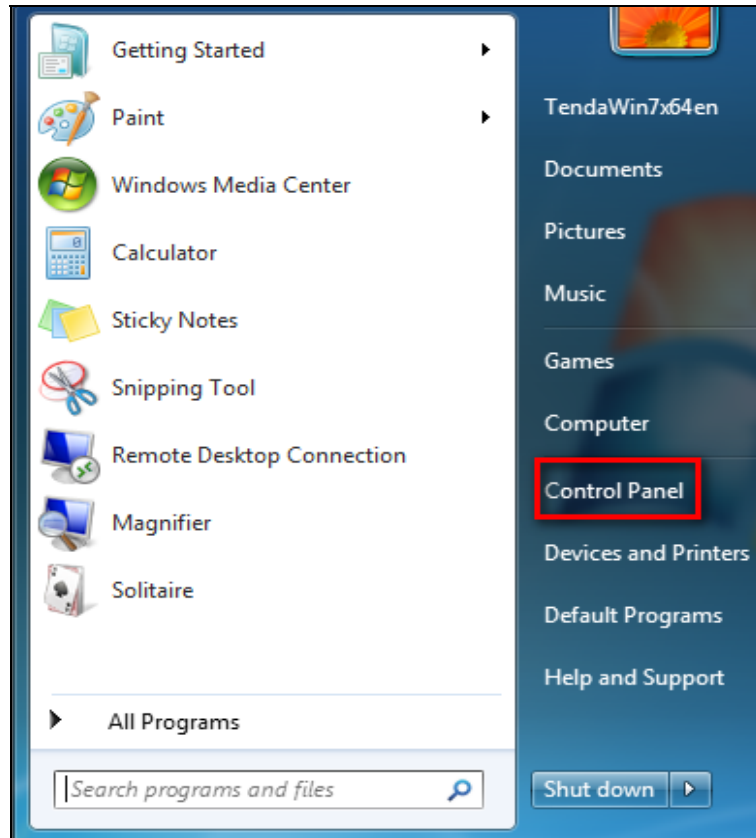
- ② Click **OK** on the appearing screen below:
- ③ The router restarts automatically if the **OK** button is clicked.



## Appendix 1 Configure PC TCP/IP Settings

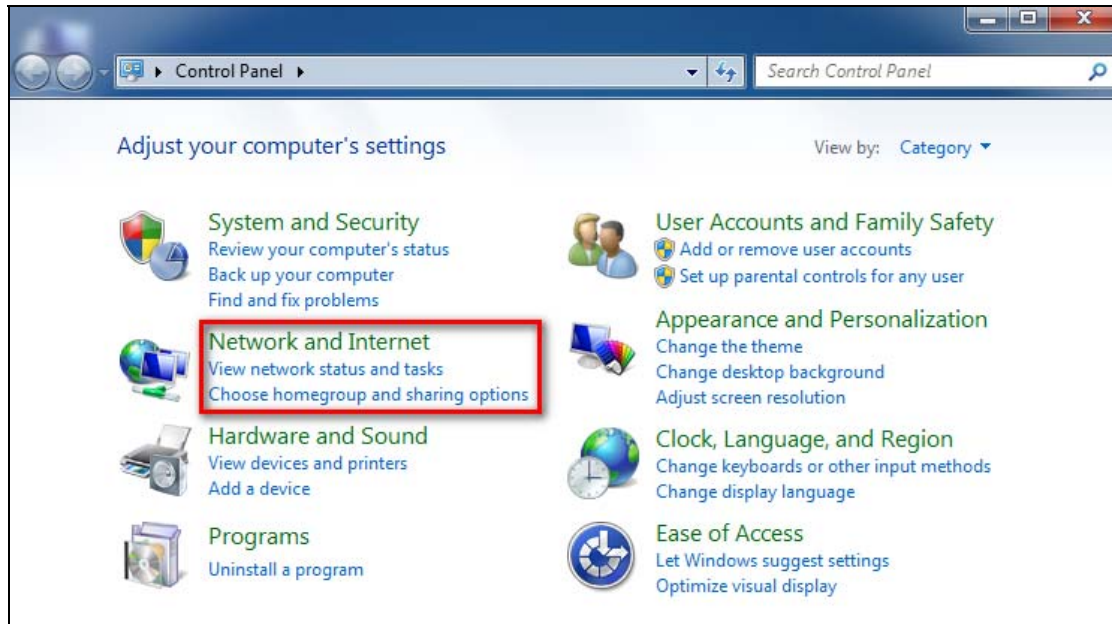
### Windows 7

- ① Click **Start -> Control Panel**.

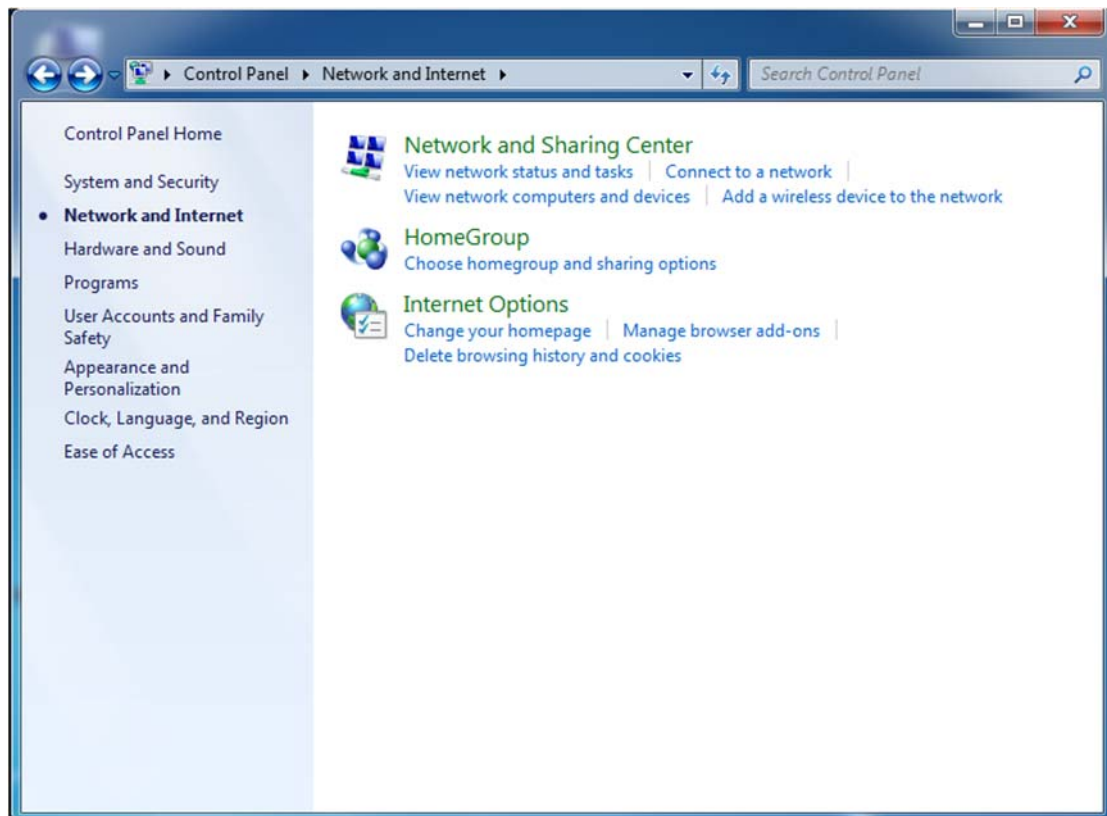




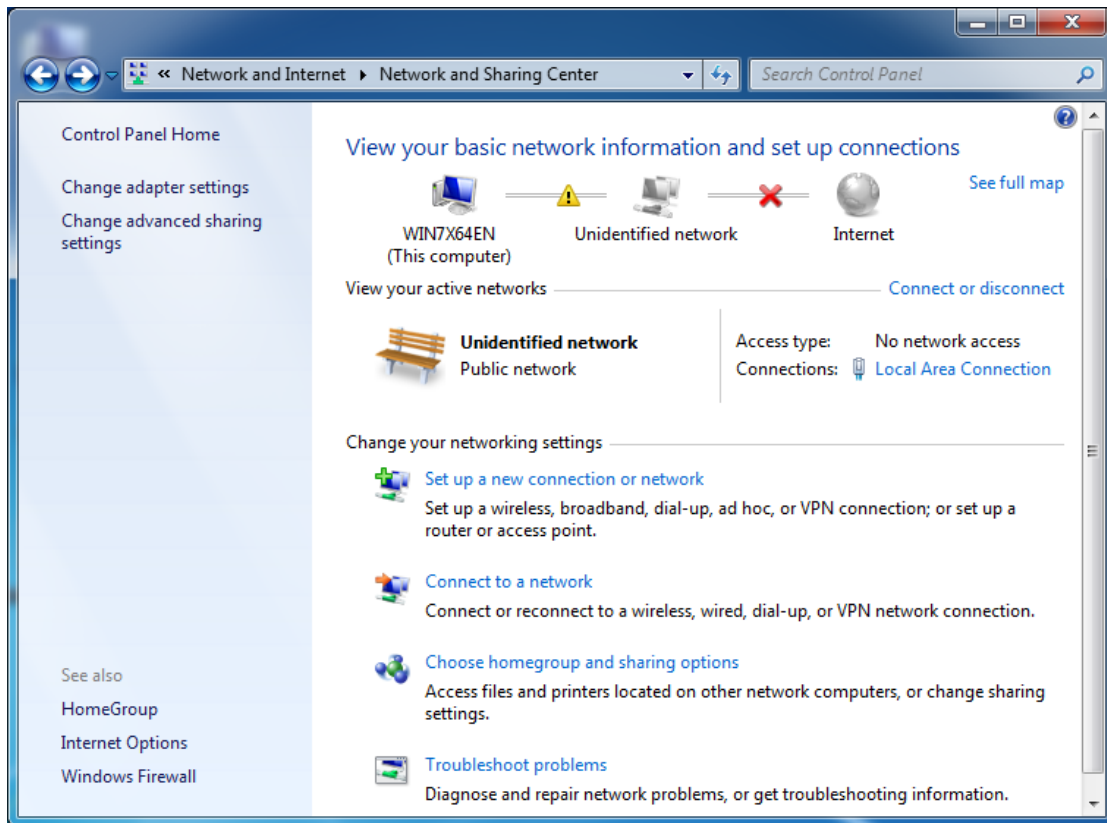
② Click **Network and Internet**.



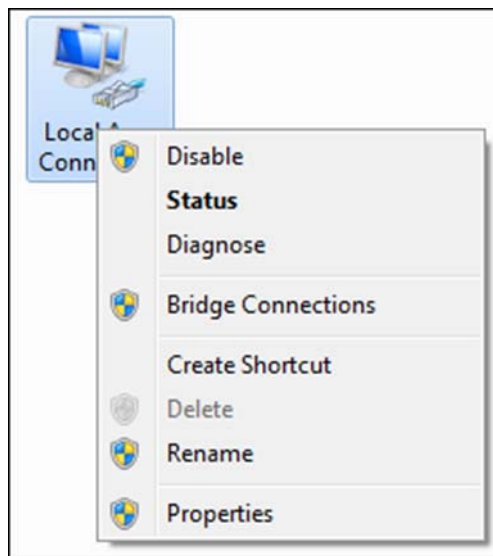
③ Click **Network and Sharing Center**.



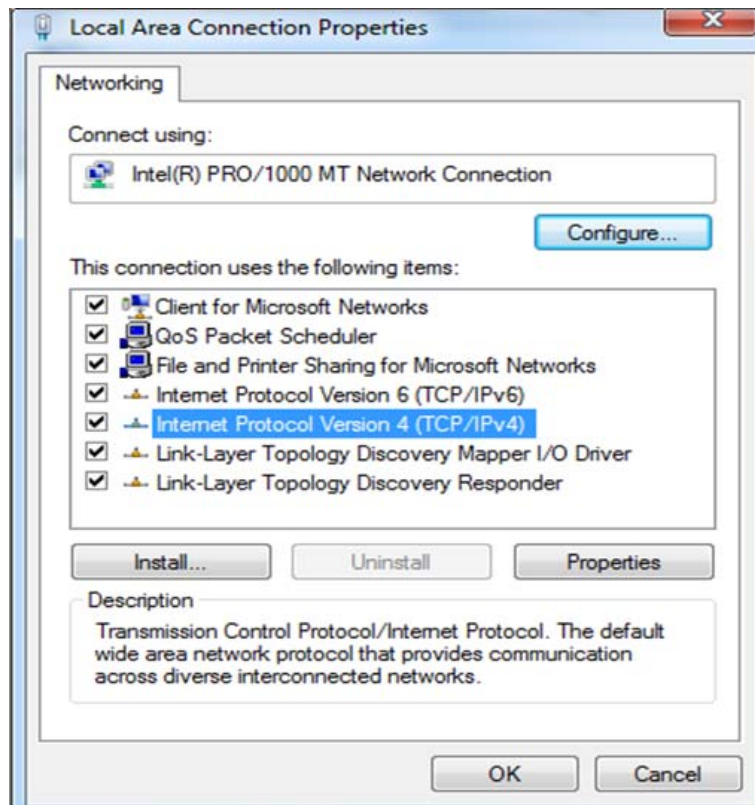
④ Click **Change adapter settings**.



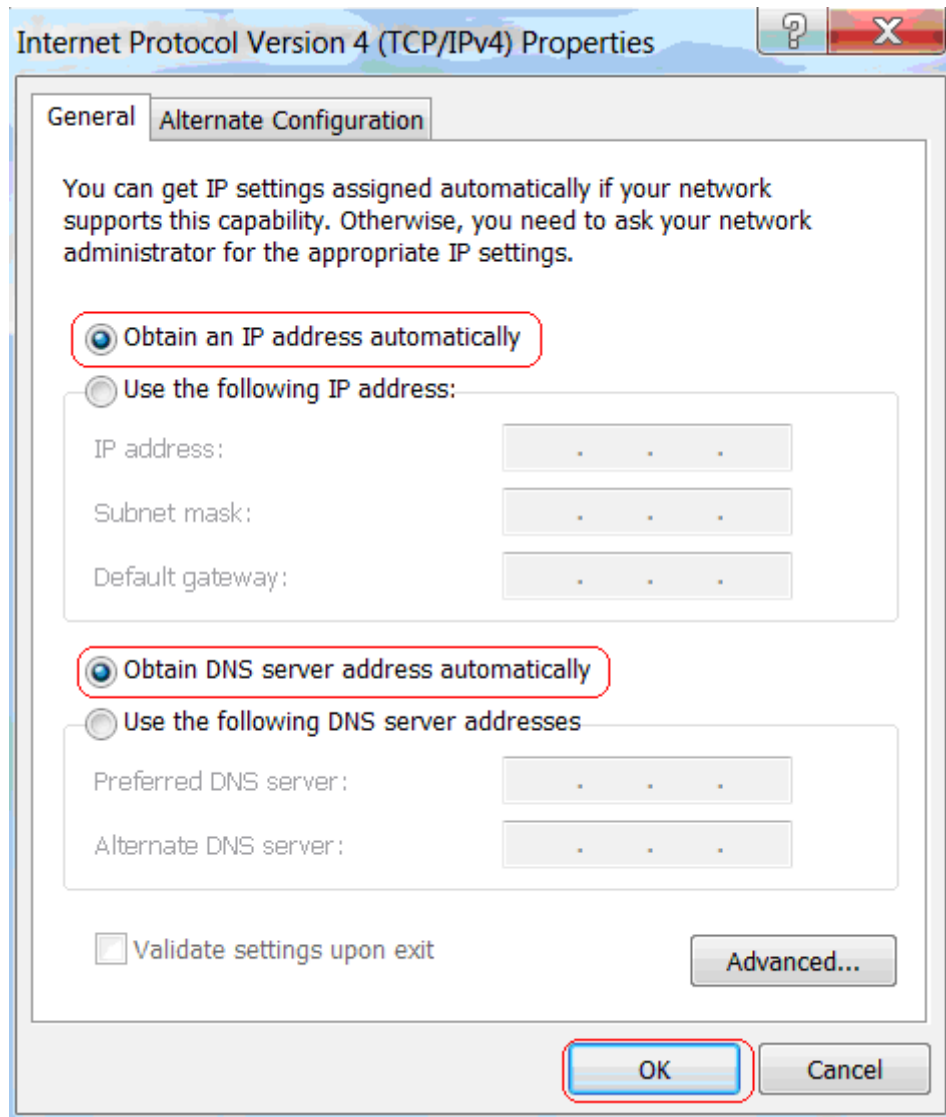
⑤ Click **Local Area Connection** and select **Properties**.



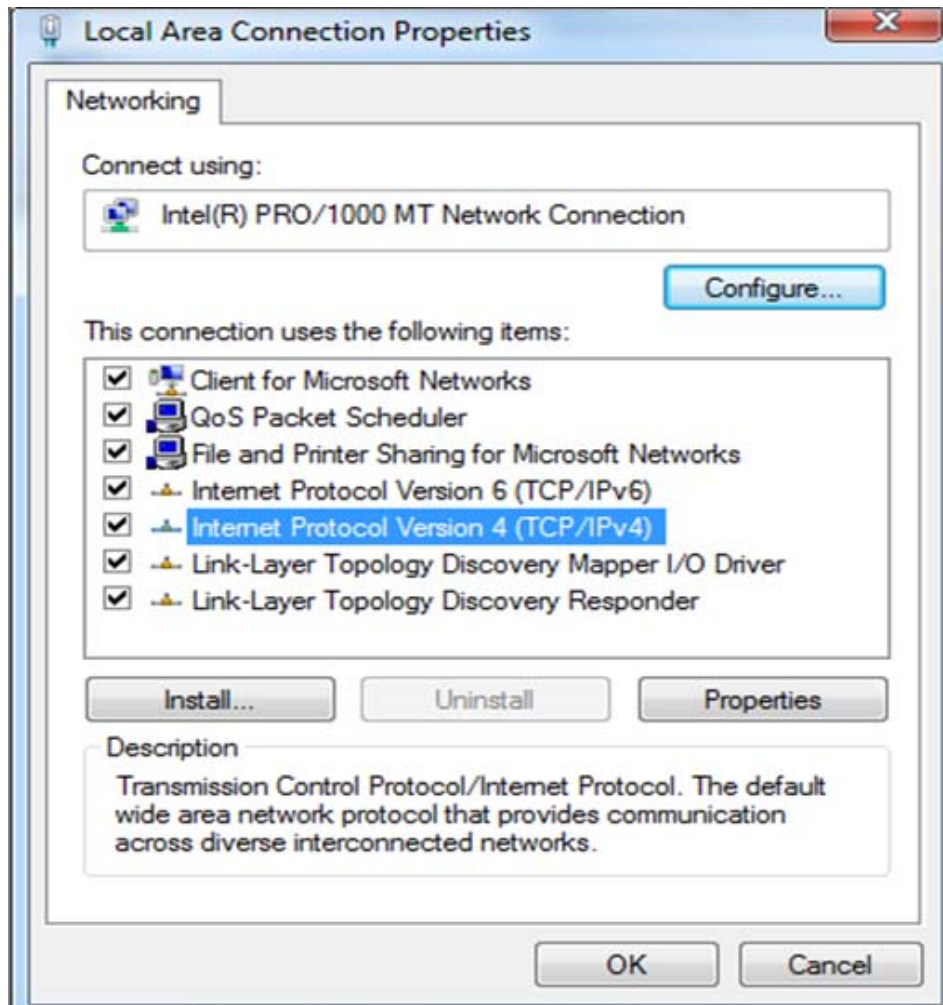
- ⑥ Select **Internet Protocol Version 4 (TCP/IPv4)** and click **Properties**.



- ⑦ Select **Obtain an IP address automatically** and click **OK**.



⑧ Click **OK** on the **Local Area Connection Properties** window to save your settings.



## Windows XP

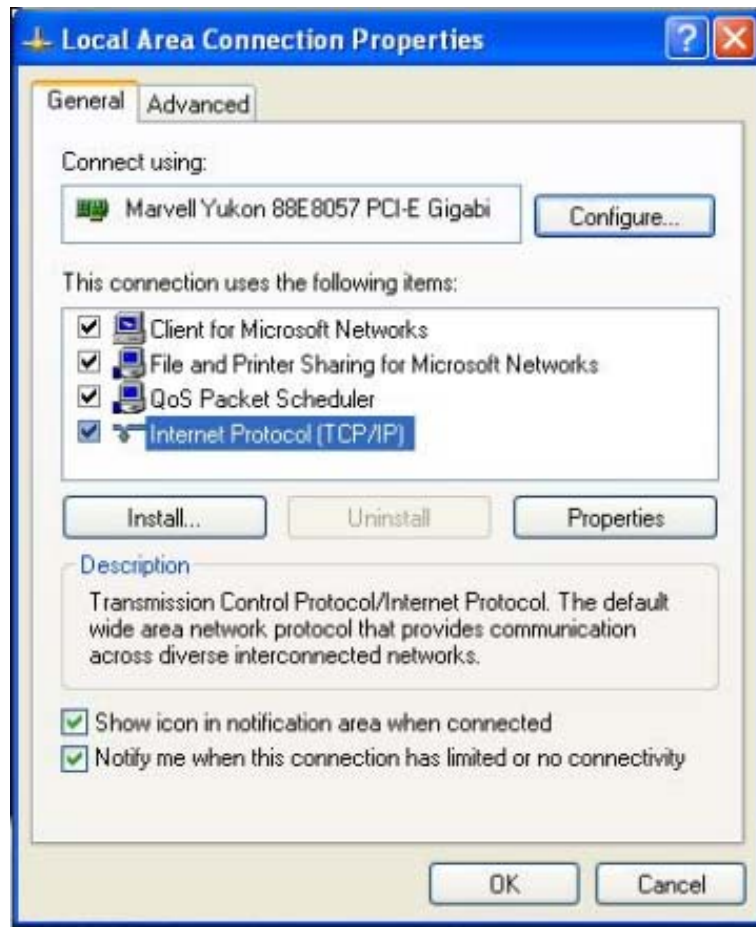
- ① Right-click **My Network Places** and select **Properties**.



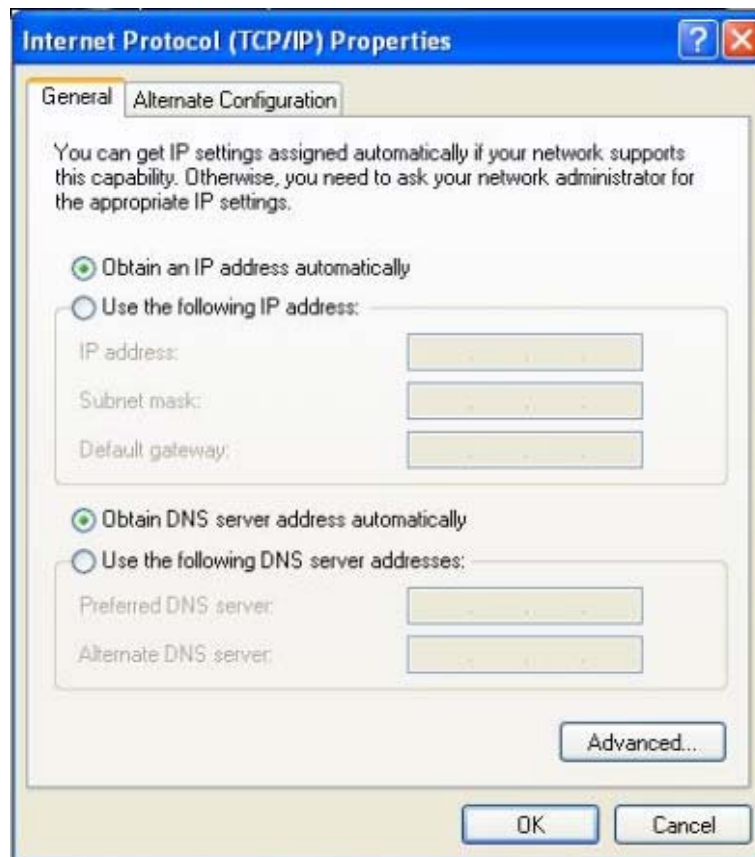
- ② Right click **Local Area Connection** and select **Properties**.



- ③ Select **Internet Protocol Version 4 (TCP/IPv4)** and click **Properties**.



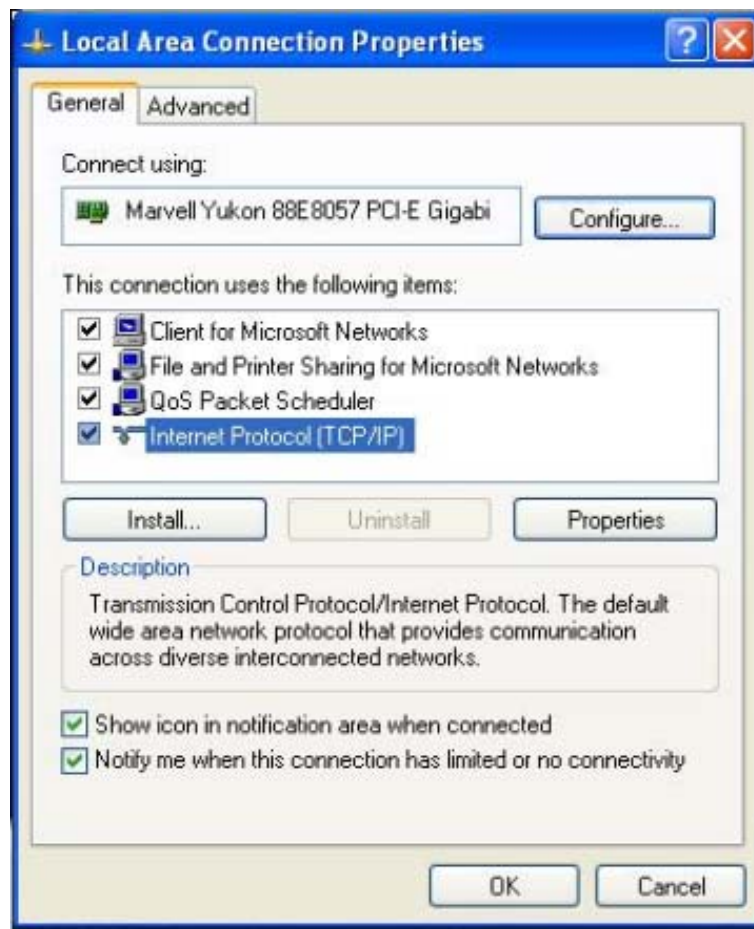
- ④ Select **Obtain an IP address automatically** and click **OK**.







- 5 Click **OK** on the **Local Area Connection Properties** window to save your settings.



## Appendix 2 Join Your Wireless Network



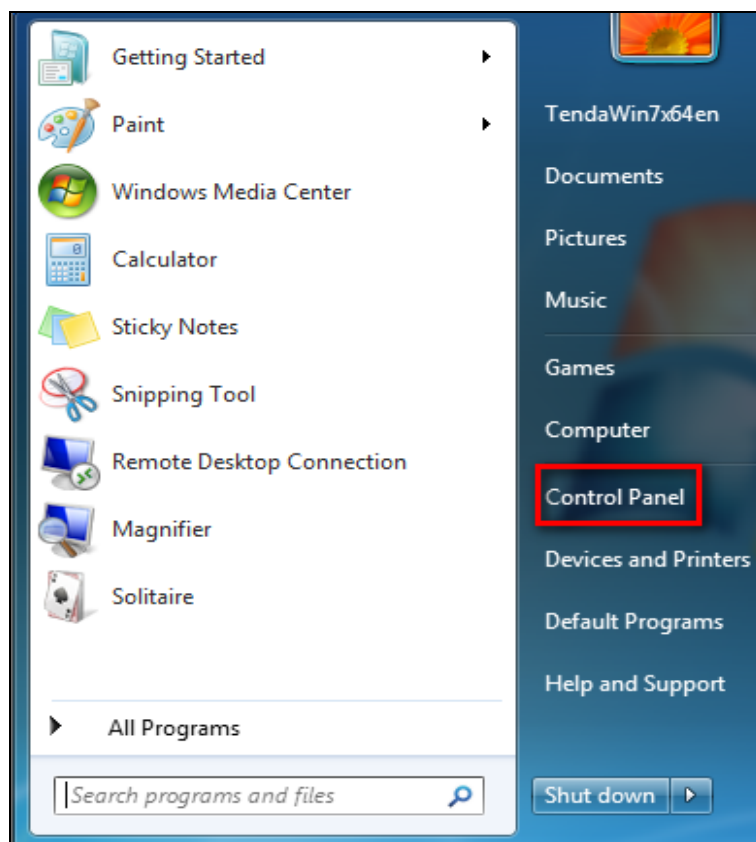
Tip -----

To join your wireless network, the PC you use must have an installed wireless network adapter. If not, install one.

-----

### Join Your Wireless Network - Windows 7

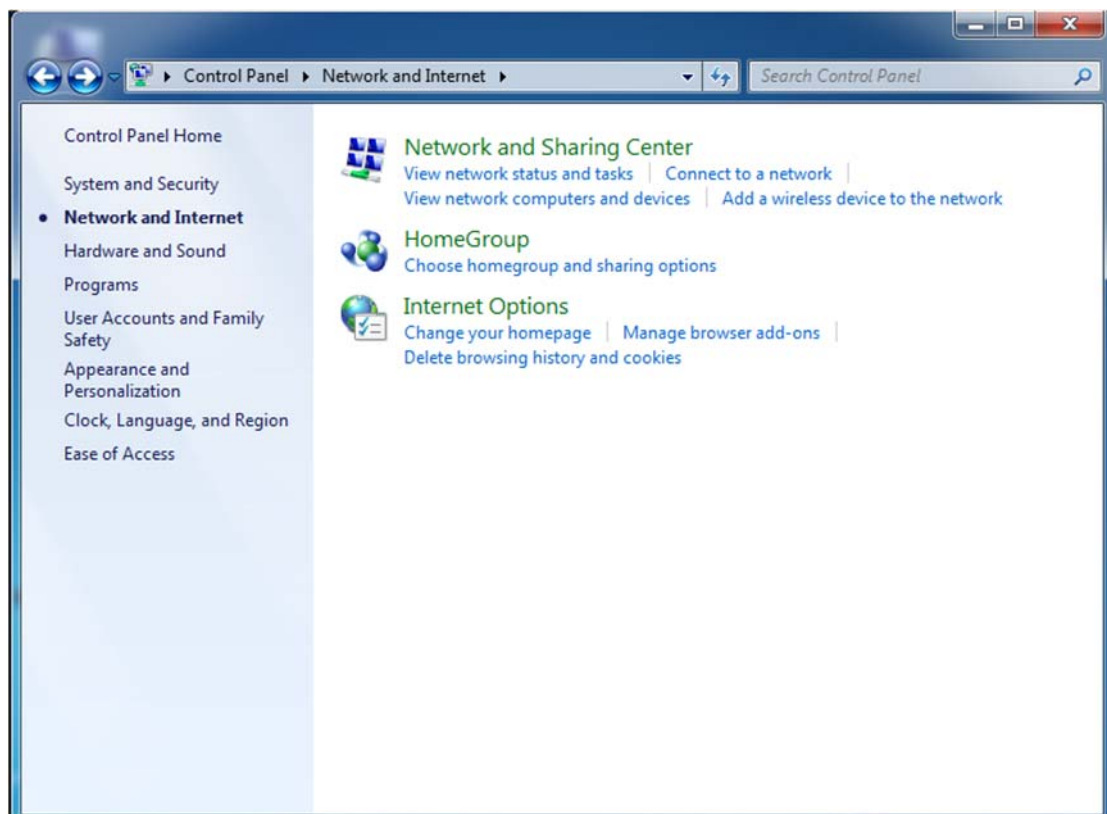
- ① Click Start -> Control Panel.



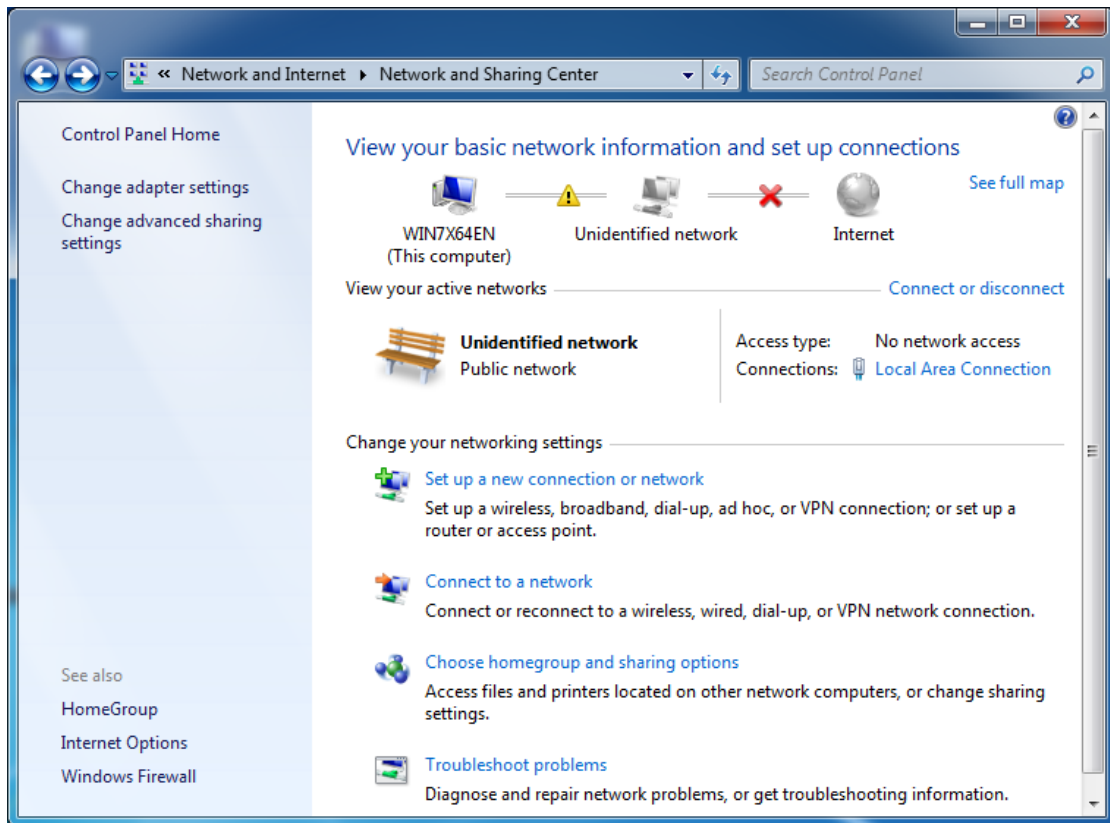
② Click **Network and Internet**.



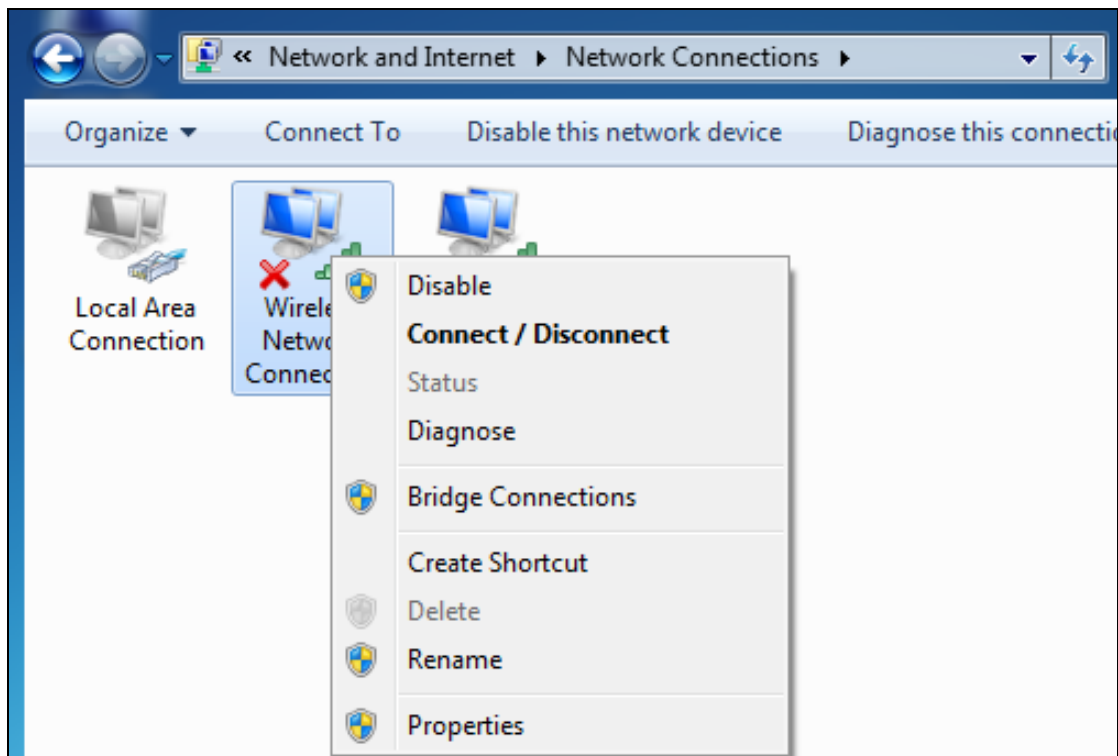
③ Click **Network and Sharing Center**.



④ Click **Change adapter settings**.



⑤ Right click the **Wireless Network Connection** and select **Connect/Disconnect**.

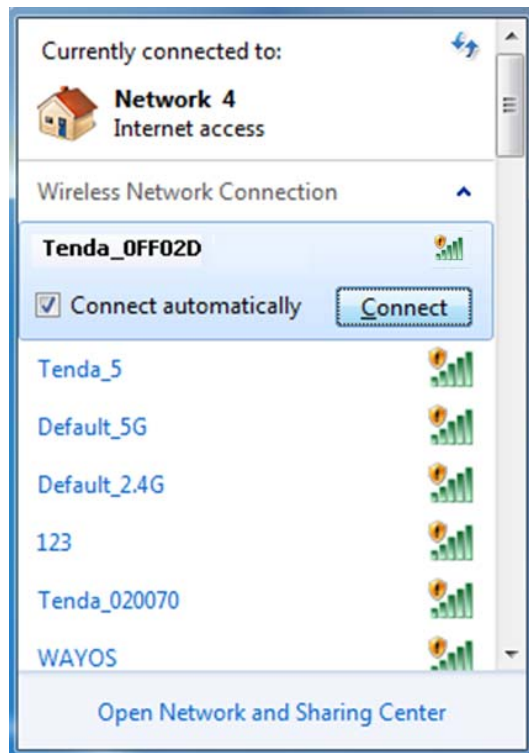


⑥ Select the wireless network you wish to connect and click **Connect**.

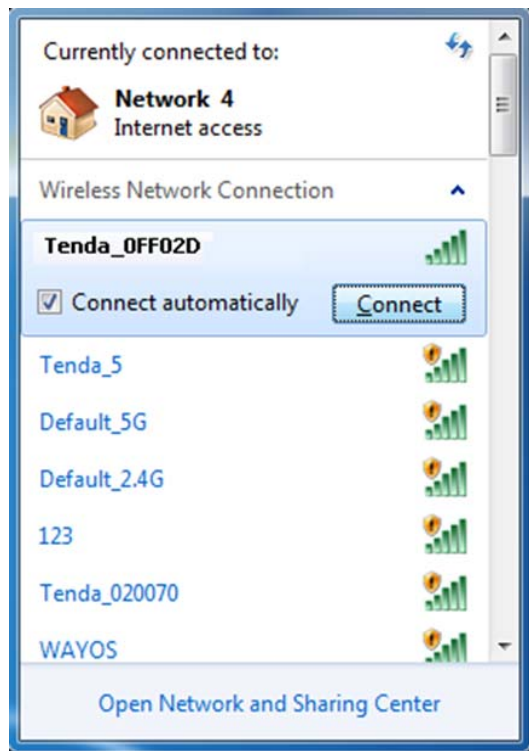


Depending on whether you are joining a secured or unsecured wireless network, you will see different screens:

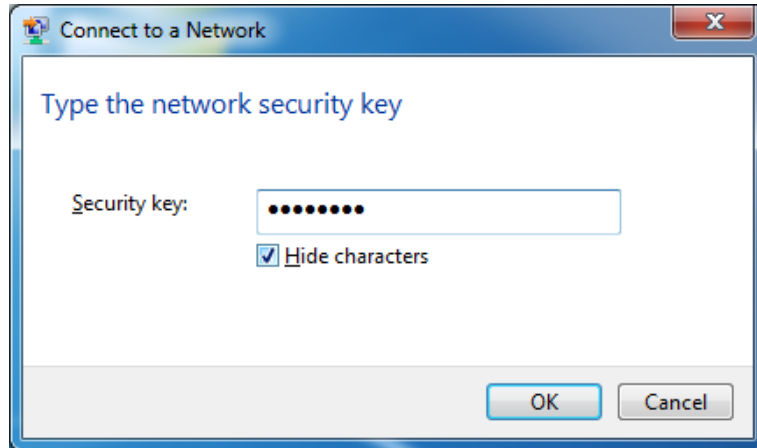
A. If you are joining an unsecured wireless network as seen below:



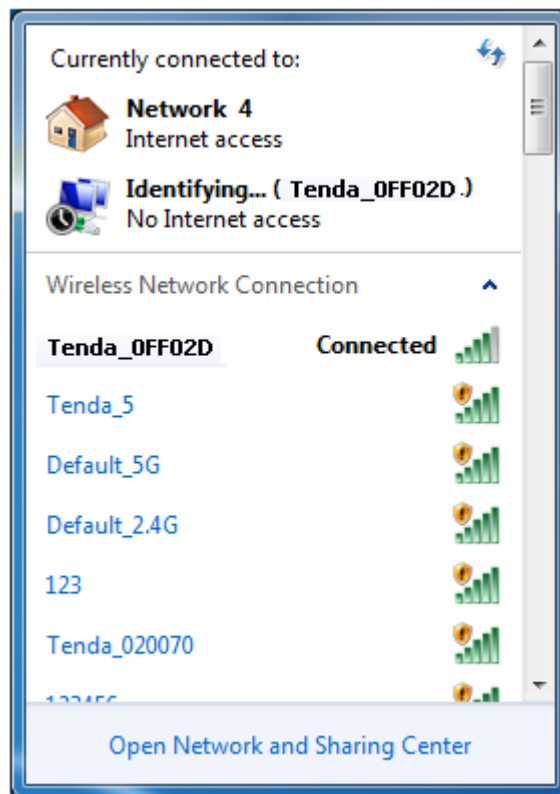
B. If you are joining a secured wireless network as seen below:



You are required to enter a security on the following screen. Enter the security key and click **OK**.



⑦ When you see **Connected** displayed next to the wireless network you selected, you have connected to the wireless network successfully.



## Appendix 3 Factory Default Settings

| Item              | Default Settings            |  |
|-------------------|-----------------------------|--|
| Router Login      | Login IP Address            | 192.168.0.1  |
| Network Settings  | Internet Connection Type    | DHCP   |
|                   | MAC Address                 | Find it on the label attached to the bottom of your device.                  |
|                   | MTU                         | PPPoE: 1450<br>Dynamic IP: 1450<br>Static IP: 1450                           |
|                   | <b>WAN Speed</b>            | <b>Auto-negotiation</b>  |
|                   | DNS                         | Disabled   |
| LAN Settings      | IP Address                  | 192.168.0.1  |
|                   | Subnet Mask                 | 255.255.255.0  |
|                   | DHCP Server                 | Enabled  |
|                   | IP Pool                     | 192.168.0.100~192.168.0.200  |
|                   | Time Zone                   | (GMT+08:00)Beijing, Chongqing, Hong Kong, Urumq                              |
|                   | Set Time and Date manually  | Disabled   |
| Wireless Settings | Wireless                    | Enabled  |
|                   | Primary SSID (Network Name) | Tenda_XXXXXX (XXXXXX is the last six characters in the device's MAC address) |
|                   | Wireless Extender           | Disabled   |
|                   | Network Mode                | 11b/g/n mixed  |
|                   | <b>SSID Broadcast</b>       | Enabled  |
|                   | AP Isolation                | Disabled   |
|                   | Channel                     | Auto   |
|                   | Channel Bandwidth           | 20/40  |
|                   | Extension Channel           | Auto   |
|                   | WMM Capable                 | Enabled  |
|                   | APSD Capable                | Disabled   |
|                   | Security Mode               | None   |
|                   | WPS                         | Disabled   |
| Tools             | Remote Web Management       | Disabled   |
|                   | Login Password              | None   |



|        |                    |          |
|--------|--------------------|----------|
| Others | Bandwidth Control  | Disabled |
|        | Traffic Statistics | Disabled |
|        | DMZ Host           | Disabled |
|        | UPnP               | Enabled  |
|        | Security           | Disabled |



## Appendix 4 FAQs

This section provides solutions to problems that may occur during installation and operation of the device. Read the following if you are running into problems.

If your problem is not covered here, please feel free to go to [www.tendacn.com](http://www.tendacn.com) to find a solution or email your problems to: [support@tenda.com.cn](mailto:support@tenda.com.cn) or support02@tenda.com.cn. We will be more than happy to help you out as soon as possible.

### 1. Q: I cannot access the device's management interface. What should I do?

- Make sure the power LED on the device's front panel is on and the SYS LED blinks normally.
- Make sure all cables are correctly connected and the corresponding LAN LED on the device is on.
- Verify that your PC's TCP/IP settings are configured correctly. If you select the "Use the following IP address" option, set your PC's IP address to any IP address between 192.168.0.2~192.168.0.254. Or you can select the "Obtain an IP address automatically" option.
- Check the IP address you entered in your browser. It should be `http://192.168.0.1`.
- Open your browser and click **Tools -> Internet Options -> Connections -> LAN settings**, uncheck the **Use a proxy server for your LAN** option.
- Press the WPS/RST button for over 7 seconds to restore your device to factory default settings. Then log to your device again.

### 2. Q: I changed the login password and unfortunately forget it. What should I do?

Press the WPS/RST button for over 7 seconds to restore your device to factory default settings.

### 3. Q: My computer shows an IP address conflict error after having connected to the device. What should I do?

- Make sure there are no other DHCP servers on your LAN or other DHCP



servers are disabled.

- Make sure the device's LAN IP is not used by other devices on your LAN. The device's default LAN IP address is 192.168.0.1.
- Make sure the statically assigned IP addresses to the PCs on LAN are not used by others PCs.

**4. Q: I have problems connecting to Internet/Secure websites do not open or displays only part of a web page. What should I do?**

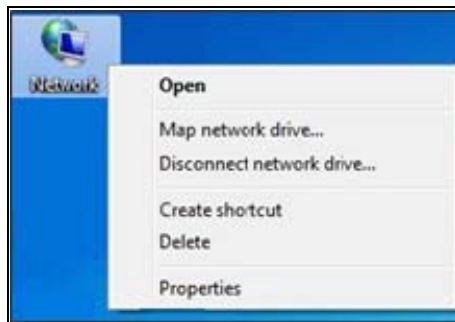
This problem mainly happens to users who use the PPPoE or Dynamic IP Internet connection type. You need to change the MTU size. Try changing the MTU to 1450 or 1400. If this does not help, gradually reduce the MTU from the maximum value until the problem disappears.

## Appendix 5 Remove Wireless Network from Your PC

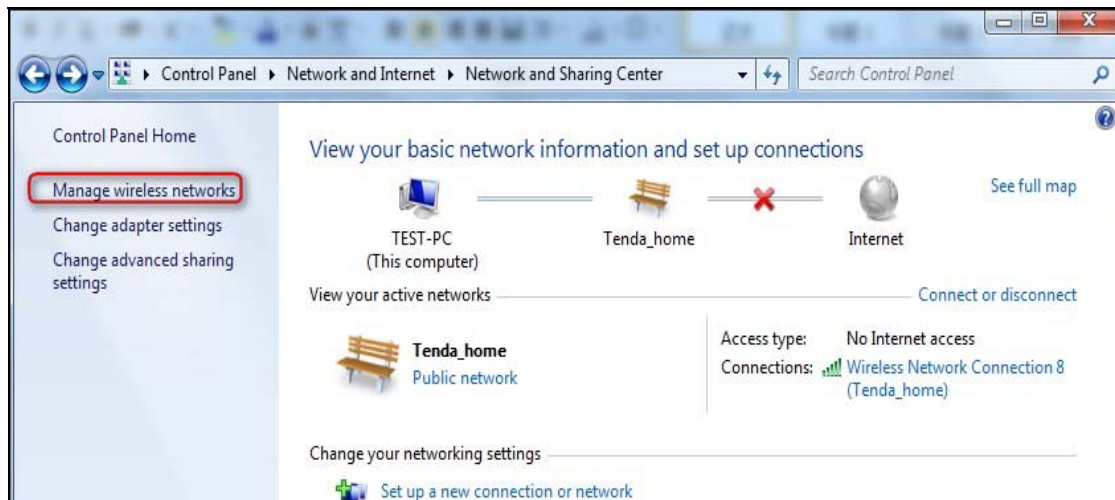
If you change wireless settings on your wireless device, you must remove them accordingly from your PC; otherwise, you may not be able to wirelessly connect to this device. Below describes how to do remove a wireless network from your PC.

### Windows 7

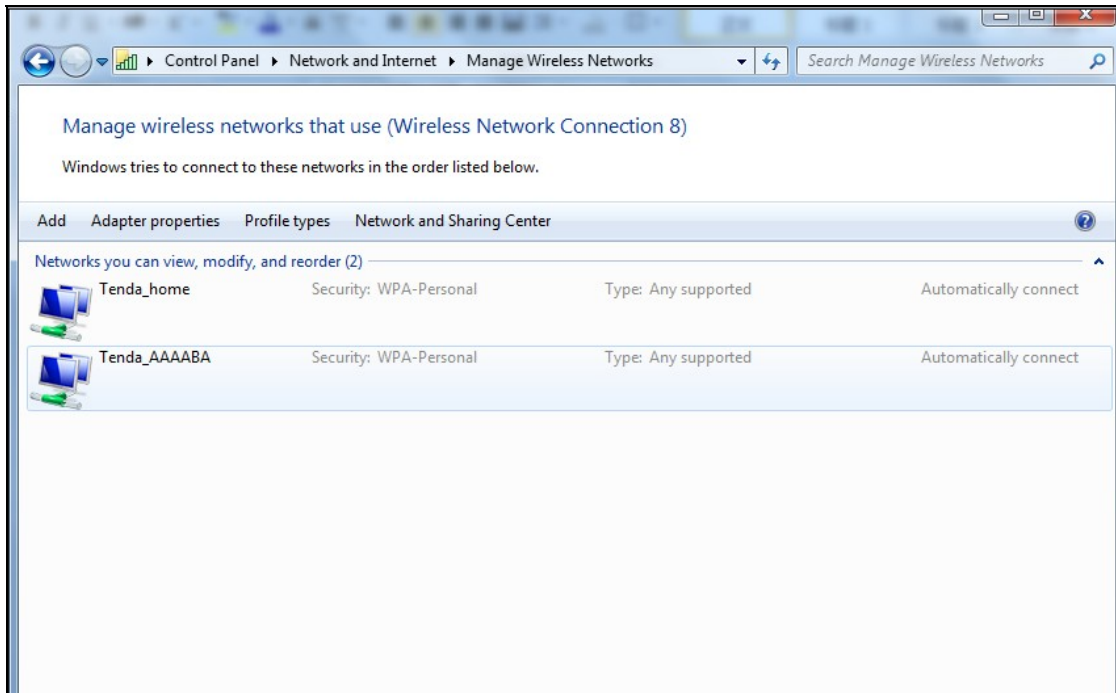
- ① Right-click the **Network** icon and select **Properties**.



- ② Select **Manage Wireless Networks**.

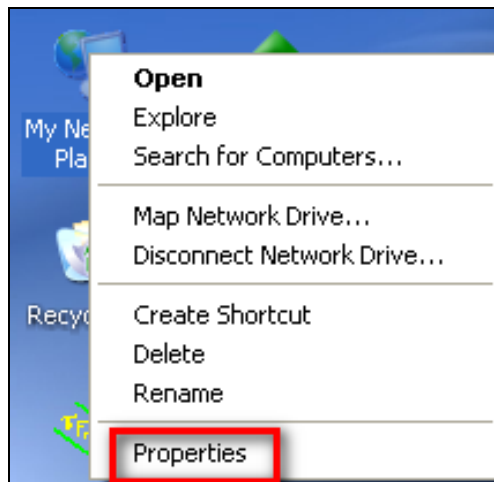


- ③ Select the wireless network and click **Remove network**.

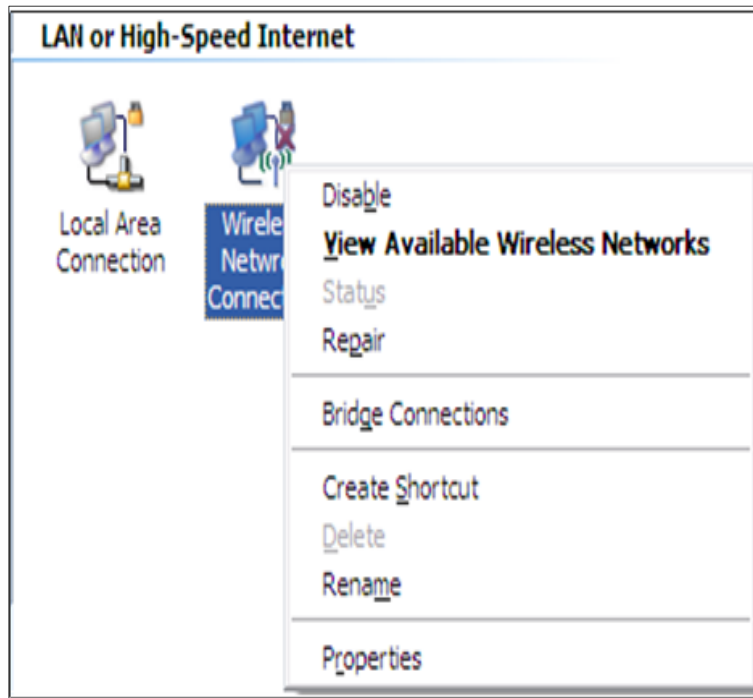


## Windows XP

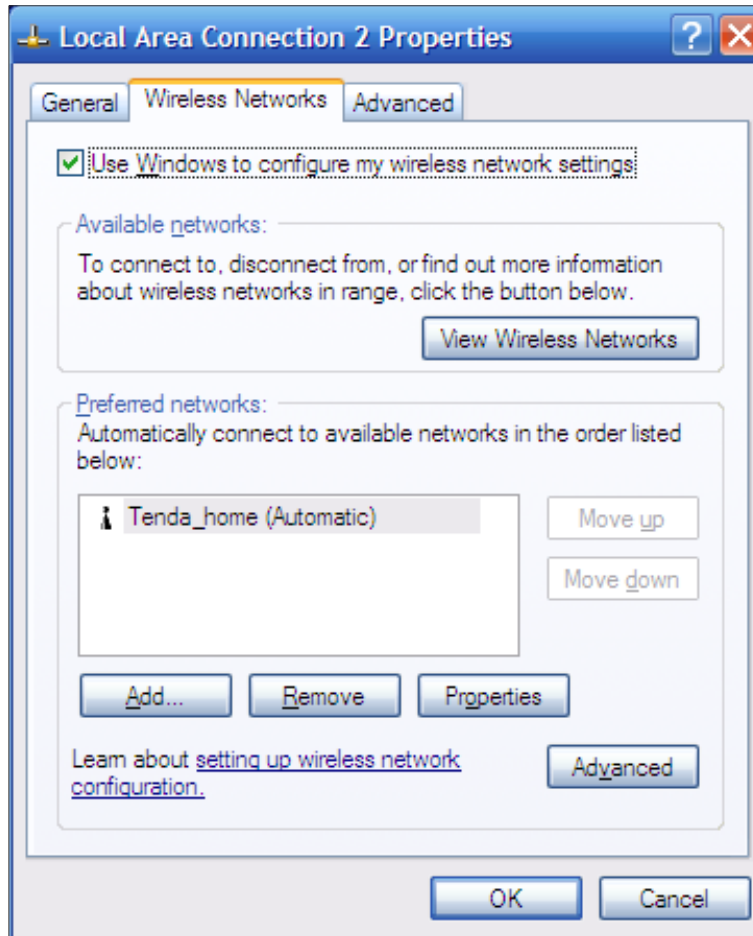
- ① Right-click **My Network Places** and select **Properties**.



- ② Right click **Wireless Network Connection** and then select **Properties**.



- ③ Click **Wireless Networks**, select the wireless network name under **Preferred networks** and then click the **Remove** button.



## Appendix 6 Safety and Emission Statement



### CE Mark Warning

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

This is a Class B product in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures

NOTE:(1)The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.(2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable



### FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.



- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

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

### **Radiation Exposure Statement**

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

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable