

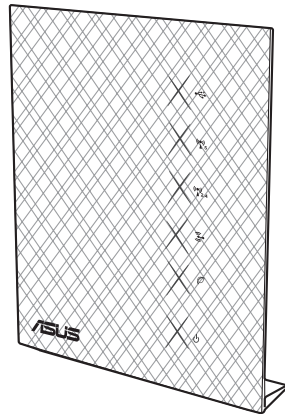
# User Guide

## RT-N56U

### Extreme Wireless N Router

#### Ultra Slim, True Dual Band, and Gigabit Internet

The ultra-thin and stylish RT-N56U features a 2.4GHz and 5GHz dual bands for an unmatched concurrent wireless HD streaming; built-in ASUS AiDisk and Download Master that support HTTP, FTP, SMB, and BT protocols for uninterrupted download tasks; a capability to handle 300,000 sessions; and the ASUS Green Network Technology, which provides up to 70% power-saving solution.



**ASUS**<sup>®</sup>  
Inspiring Innovation • Persistent Perfection

First Edition  
June 2010 / E5815

# Table of contents

<b>1</b>	<b>A quick look</b>	
	Package contents .....	4
	Your wireless router .....	4
	Mounting placement .....	5
<b>2</b>	<b>Creating your network</b>	
	What you need.....	6
	Before you proceed .....	7
	Setting up your wireless router .....	8
	Wired connection (A).....	8
	Wireless connection (B).....	9
<b>3</b>	<b>Configuring via the web GUI</b>	
	Logging into the web GUI.....	10
	Setting up the Internet connection .....	11
	Quick Internet Setup (QIS) with auto-detection .....	11
	Quick Internet Setup (QIS) without auto-detection.....	14
	Your ASUS Wireless Router as a 3.5G mobile router.....	15
	Setting up the wireless security settings .....	17
	Managing your network clients .....	19
	Monitoring your USB device .....	20
	Using your router as a UPnP Media Server .....	22
	Using AiDisk for an FTP Server and Network Neighborhood setup .....	23
	Managing EZQoS Bandwidth.....	25
	Configuring the Advanced settings.....	27
	Setting up the DHCP Server .....	27
	Upgrading the firmware .....	29
	Restoring/Saving/Uploading settings .....	30
	Sharing files from a USB storage device .....	31

# Table of contents

Setting up your network printer .....	36
<b>4 Using the utilities</b>	
Device Discovery .....	40
Firmware Restoration .....	41
Download Master .....	42
<b>5 Troubleshooting</b>	
Troubleshooting .....	46
ASUS DDNS Service.....	50
Frequently Asked Questions (FAQs).....	50
<b>Appendices</b>	
Notices .....	52
GNU General Public License .....	54
REACH .....	63
ASUS Contact information .....	64

# 1 A quick look

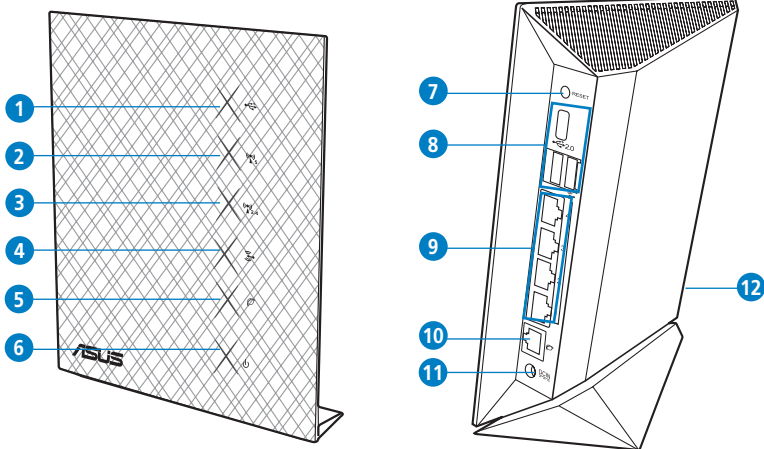
## Package contents

- ☑ RT-N56U Wireless Router
- ☑ Power adapter
- ☑ Support CD (manual, utilities)
- ☑ RJ45 cable
- ☑ Quick Start Guide



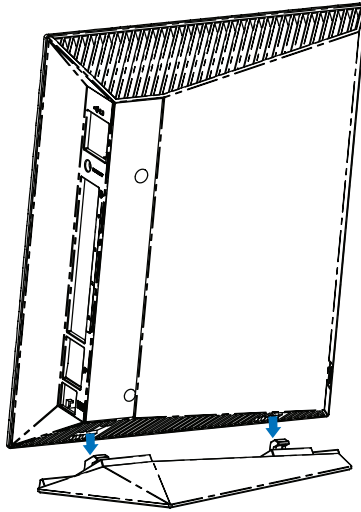
**NOTE:** If any of the items is damaged or missing, contact your retailer.

## Your wireless router



- |   |            |   |                         |    |                           |
|---|------------|---|-------------------------|----|---------------------------|
| 1 | USB LED    | 5 | Internet connection LED | 9  | LAN 1 ~ 4 ports           |
| 2 | 5GHz LED   | 6 | Power LED               | 10 | WAN port                  |
| 3 | 2.4GHz LED | 7 | Reset button            | 11 | Power (DC-In) port        |
| 4 | WAN LED    | 8 | USB ports               | 12 | WPS button (on the right) |

## Mounting placement



### NOTES:

- Use only the adapter that came with your package. Using other adapters may damage the device.
- **Specifications:**

<b>DC Power adapter</b>	<b>DC Input:</b> +19V with max 1.58A current; +12V with max 2A current		
<b>Operating Temperature</b>	0~40°C	<b>Storage</b>	0~70°C
<b>Operating Humidity</b>	50~90%	<b>Storage</b>	20~90%

## 2 Creating your network

### What you need

To set up your network, you need one or two computers that meet the following system requirements:

- Ethernet RJ-45 (LAN) port (10Base-T/100Base-TX/1000BaseTX)
- IEEE 802.11a/b/g/n wireless capability
- An installed TCP/IP service
- Web browser such as Internet Explorer, Firefox, Safari, or Google Chrome



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#### NOTES:

- If your computer does not have built-in wireless capabilities, you may install an IEEE 802.11a/b/g/n WLAN adapter to your computer to connect to the network.
  - With its dual band technology, your wireless router supports 2.4GHz and 5GHz wireless signals simultaneously. This allows you to do Internet-related activities such as Internet surfing or reading/writing e-mail messages using the 2.4GHz band while simultaneously streaming high-definition audio/video files such as movies or music using the 5GHz band.
  - If you are using only one computer with single band IEEE 802.11b/g/n WLAN adapter, you will only be able to use the 2.4GHz band.
  - If you are using only one computer with dual band IEEE 802.11a/b/g/n WLAN adapter, you will be able to use the 2.4GHz or 5GHz band.
  - If you are using two computers with both IEEE 802.11a/b/g/n WLAN adapters, you will be able to use both 2.4GHz and 5GHz bands simultaneously.
-

## Before you proceed



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### IMPORTANT!

- The Ethernet RJ-45 cables that will be used to connect the network devices should not exceed 100 meters.
  - For the best wireless signal transmission between the wireless router and the network devices connected to it, ensure that you:
    - Place the wireless router in a centralized area for a maximum wireless coverage for the network devices.
    - Keep the device away from metal obstructions and away from direct sunlight.
    - Keep the device away from transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators, and other industrial equipment to prevent signal interference or loss.
-

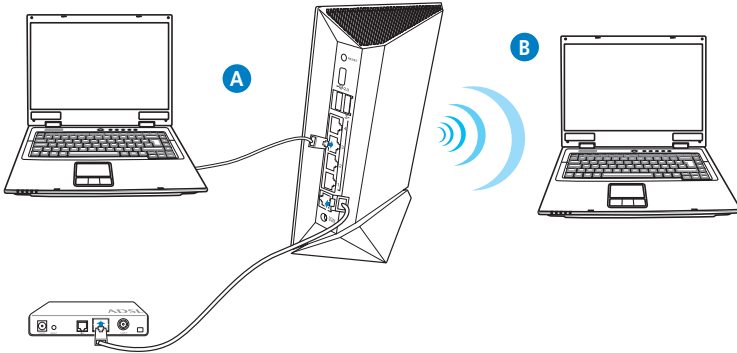
# Setting up your wireless router



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**IMPORTANT!** Use wired connection in setting up your wireless router to avoid possible setup problems due to wireless uncertainty.

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## Wired connection (A)



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**NOTE:** Your wireless router has an integrated auto-crossover function, so use either straight-through or crossover cable for wired connection.

---

### To set up your wireless router via wired connection:

1. Turn on your wireless router and modem.
2. Using an RJ-45 cable, connect the router's WAN port to the modem.
3. Using another RJ-45 cable, connect the router's LAN port to your computer's LAN port.



## Wireless connection (B)

### To set up your wireless router via wireless connection:

1. Turn on your wireless router and modem.
2. Using an RJ-45 cable, connect the router's WAN port to the modem.
3. Install an IEEE 802.11a/b/g/n WLAN adapter on your computer.



#### NOTES:

- For details on connecting to a wireless network, refer to the WLAN adapter's user manual.
- To set up the security settings for your network, refer to the section **Setting up the wireless security settings** in this user manual.



**IMPORTANT!** If your wireless router supports the 3G function, you may use a 3.5G USB adapter to turn your wireless router into a mobile router. For more details, refer to the section **Your ASUS Wireless Router as a 3G mobile router** in this user manual.

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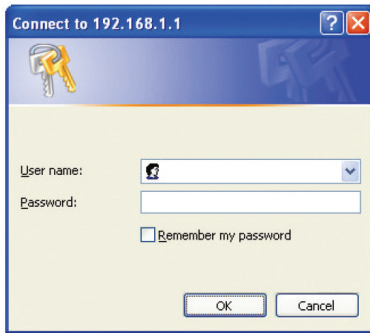
# 3 Configuring via the web GUI

## Logging into the web GUI

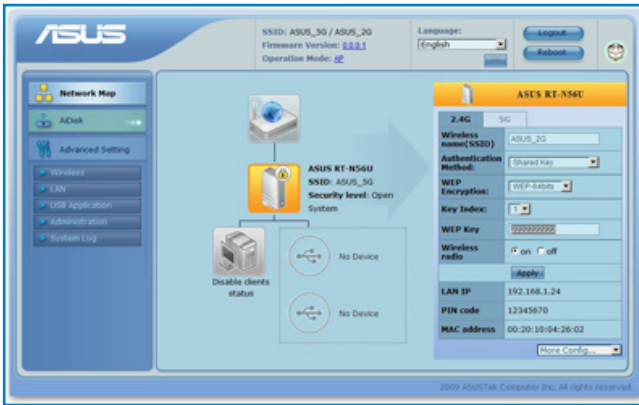
Your ASUS Wireless Router comes with an intuitive web graphics user interface (GUI) that allows you to easily configure its various features through a web browser such as Internet Explorer, Firefox, Safari, or Google Chrome.

### To log into the web GUI:

1. On your web browser such as Internet Explorer, Firefox, Safari, or Google Chrome, manually key in the wireless router's default IP address: **192.168.1.1**
2. On the login page, key in the default user name (**admin**) and password (**admin**).



2. The wireless router's web GUI launches. Use the web GUI to configure various wireless settings.



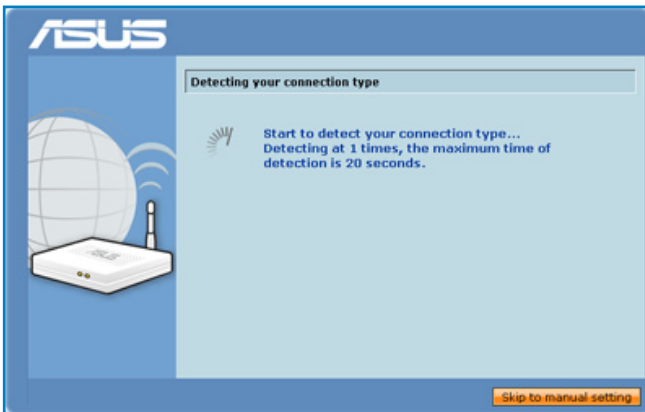
## Setting up the Internet connection

### Quick Internet Setup (QIS) with auto-detection

The Quick Internet Setup (QIS) function guides you in quickly setting up your Internet connection.

#### To use QIS with auto-detection:

1. Launch a web browser such as Internet Explorer, Firefox, Safari, or Google Chrome.



2. The wireless router automatically detects if your ISP connection type is **Dynamic IP**, **PPPoE**, **PPTP**, **L2TP**, and **Static IP**. Key in the necessary information for your ISP connection type.



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**IMPORTANT!** Obtain the necessary information about your Internet connection type from your ISP.

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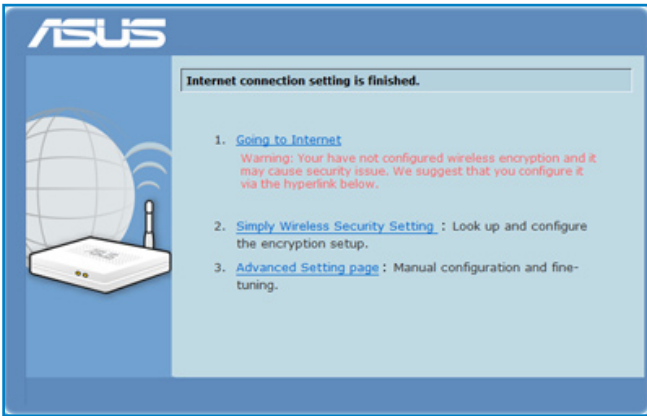


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**NOTE:** The auto-detection of your ISP connection type takes place when you configure the wireless router for the first time or when your wireless router is reset to its default settings.

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3. Internet connection setup is done.



Select your next preferred task from any of these options:

- 1. Going to Internet:** Click to start surfing the Internet or do Internet-related activities such as chat, or read/write e-mail messages.

**2. Simply Wireless Security Setting:** Click to go to the wireless router's web graphics user interface (GUI) to configure your wireless security settings.



---

**IMPORTANT!**

- By default, encryption is disabled and open system authentication is used in your wireless router. This renders your network unsecured against unauthorized access and malicious attacks from hackers.
  - We strongly recommend that you set up your wireless security settings. For more details, refer to the section **Setting up the wireless security settings** in this user manual.
- 

**3. Advanced Setting page:** Click to go to the wireless router's Advanced Setting page and configure more advanced wireless settings.



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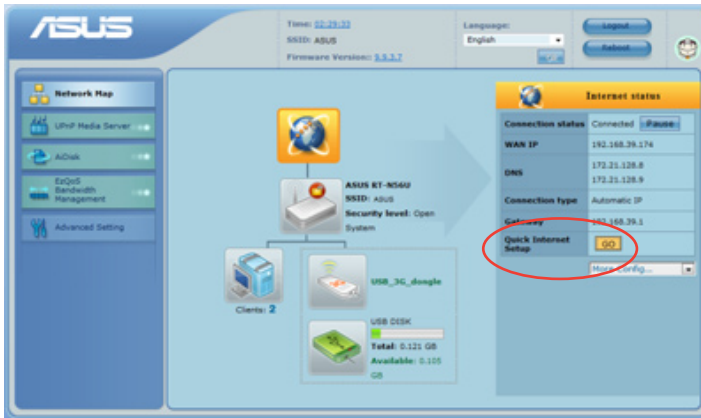
**NOTE:** If you choose options 2 and 3, you will need to log into the web GUI. For more details, refer to the section **Logging into the web GUI** in this user manual.

---

## Quick Internet Setup (QIS) without auto-detection

### To use QIS without auto-detection:

1. Under Internet status, click **GO** in the Quick Internet Setup field.



2. Select your connection type from these types of ISP services: **Dynamic IP, PPPoE, PPTP, L2TP, and Static IP.**
3. Click **Apply all settings** to save the settings.



**IMPORTANT!** Obtain the necessary information about your Internet connection type from your ISP.

## Your ASUS Wireless Router as a 3.5G mobile router

Install a 3.5G USB adapter on your wireless router to turn it into a mobile router to provide a quick Internet connection access and sharing for your wireless network clients virtually anywhere.



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**IMPORTANT!** Ensure that you subscribe to a mobile (3G/3.5G) Internet service. Contact your ISP for more details about subscribing to this service.

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### NOTES:

- The 3.5G USB adapter is purchased separately.
  - Your wireless router model may not support the 3G function.
- 

## Using a 3.5G USB adapter on your wireless router

### To use a 3G adapter on your wireless router:

1. Activate your 3.5G HSDPA USB adapter.
2. Insert your 3.5G USB adapter to your computer's USB port and verify if you can access the Internet through the 3.5USB adapter.
3. Remove the 3.5G USB adapter from your computer.
4. Using an RJ-45 cable, connect your computer to your wireless router.
5. Insert your 3.5G USB adapter into the USB port at the rear of the wireless router.
6. Configure the Internet connection settings via the wireless router's web GUI.



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**NOTE:** Refer to the next section **Setting up the 3.5G Internet connection settings** in this user manual.

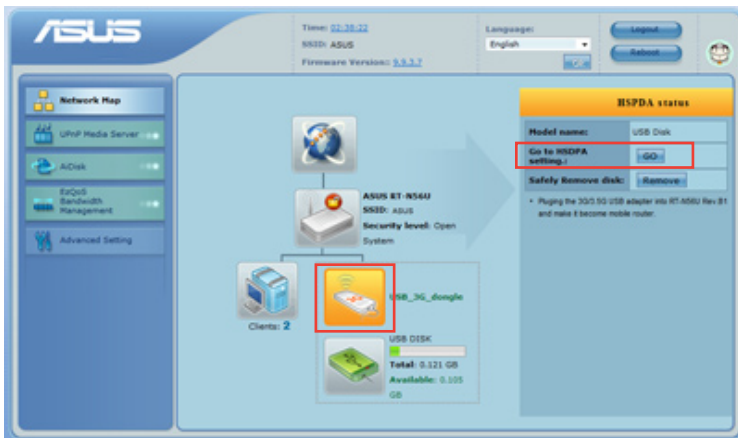
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## Setting up the 3.5G Internet connection settings

### To set up the 3.5G Internet connection settings:

1. Key in **192.168.1.1** on your web browser.
2. On the login screen, key in the default user name (**admin**) and password (**admin**), then click **OK**. The wireless router's web GUI launches.
3. From the navigation menu, click **Network Map** > **USB\_3G\_dongle**, and under the **HSDPA status**, click **GO**.

You may also click **Advanced Setting** > **USB Application** from the navigation menu.



4. From the HSDPA tab, do the following settings:
  - **Enable HSDPA:** Select Enable.
  - **3G/3.5G USB Adapter:** Select your 3G USB adapter.
  - **Location:** Select your ISP's location.
  - **ISP:** Select your ISP.
  - **APN service (optional):** Key in your APN service name.



- **PIN:** Key in the PIN (Personal Identification Number) code.
- **Dial Number:** Key in your dial number.
- **Username:** Key in your username.
- **Password:** Key in your password.



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**IMPORTANT!** Obtain the APN service name, PIN code, dial number, username, and password from your ISP.

---

5. Click **Apply**, then you are prompted to configure your wireless network settings such as security settings via the wireless router's web GUI.

You may also now surf the Internet or do Internet-related activities such as chat online or read/write e-mail messages.

## Setting up the wireless security settings

To protect your wireless network from unauthorized access, you need to configure its security settings.

### To set up the wireless security settings:

1. Key in **192.168.1.1** on your web browser.
2. On the login screen, key in the default user name (**admin**) and password (**admin**), then click **OK**. The wireless router's web GUI launches.
3. On the **Network Map** screen, select the **System status** icon to display the wireless security settings such as SSID, security level, and encryption settings.



**NOTE:** You can set up different wireless security settings for 2.4GHz and 5GHz bands.

## 2.4GHz security settings

The screenshot shows the ASUS wireless configuration interface. On the left is a navigation menu with options like Network Map, AClick, Advanced Setting, Wireless, LAN, USB Application, Administration, and System Log. The main area displays a network map with the ASUS RT-N56U router and two connected devices, both labeled 'No Device'. The right panel is titled 'ASUS RT-N56U' and shows settings for the 2.4G band. The 'Wireless name(SSID)' is 'ASUS\_2G'. The 'Authentication Method' is 'Shared Key'. The 'WEP Encryption' is 'WEP-64bits'. The 'Key Index' is '1'. The 'WEP Key' is '1234567890123456'. The 'Wireless radio' is turned 'on'. Other settings include LAN IP (192.168.1.24), PIN code (12345670), and MAC address (00:20:10:04:26:02). Buttons for 'Login', 'Reboot', and 'Apply' are visible.

## 5GHz security settings

The screenshot shows the same ASUS wireless configuration interface, but for the 5G band. The 'Wireless name(SSID)' is 'ASUS\_5G'. The 'Authentication Method' is 'Open System'. The 'WEP Encryption' is 'WEP-64bits'. The 'Key Index' is '1'. The 'WEP Key' is '1234567890123456'. The 'Wireless radio' is turned 'on'. Other settings include LAN IP (192.168.1.24), PIN code (12345670), and MAC address (00:20:10:04:26:02). A tooltip for the 'WEP Key' field indicates it should be 5 ASCII digits or 10 hex digits. Buttons for 'Login', 'Reboot', and 'Apply' are visible.

4. On the **Wireless name (SSID)** field, key in a unique name for your wireless network.
5. From the **Security Level** dropdown list, select the encryption method for your wireless network.



**IMPORTANT!** The IEEE 802.11n standard prohibits using High Throughput with WEP or WPA-TKIP as the unicast cipher. If you use these encryption methods, your data rate will drop to IEEE 802.11g 54Mbps connection.

6. Key in your security passkey.
7. Click **Apply** when done.

## Managing your network clients

### To manage your network clients:

1. Launch the wireless router's web GUI.
2. On the **Network Map** screen, select the **Client Status** icon to display the information about your network clients.

The screenshot displays the ASUS wireless router web GUI. The main content area shows the 'Client Status' page, which is highlighted with a red box. The page includes a 'Client List' table and a 'Blocked client list' table. The 'Client List' table has columns for Type, Name, LAN IP, Priority, and Block. The 'Blocked client list' table has columns for Type, Name, LAN IP, MAC address, and unBlock. The 'Client List' table shows two entries: 'JEREMY\_CHANG-PC...' with LAN IP 192.168.1.2 and 'user-WB' with LAN IP 192.168.1.200. The 'Blocked client list' table shows 'No data'. The 'Client Status' page also includes 'Refresh' and 'Apply' buttons. The 'Network Map' sidebar on the left shows 'Clients: 2' and 'USB\_3C\_dangle' and 'USB DISK' icons. The top of the page shows the time (02:51:02), SSID (ASUS), and Firmware Version (3.0.3.7).

Type	Name	LAN IP	Priority	Block
	JEREMY_CHANG-PC...	192.168.1.2	Normal	<input type="checkbox"/>
	user-WB	192.168.1.200	Normal	<input type="checkbox"/>

Type	Name	LAN IP	MAC address	unBlock
No data				

3. In the **Priority** field under the Client List, you can set the priority packet for each client as **Normal**, **High**, or **Low**.
4. To block a client's access to your network, select the client and click **Block**.

To restore a client's access to your network, select the client in the **Blocked client list** and click **Unblock**.

## Monitoring your USB device

The ASUS Wireless Router provides two USB 2.0 ports for connecting USB devices such as a USB storage device and USB printer, to allow you to monitor the working environment, share files, and printer with clients in your network.



**NOTE:** To use this feature, you need to plug a USB storage device, such as a USB hard disk or USB flash drive, to the USB 2.0 port on the rear panel of your wireless router. Ensure that the USB storage device is formatted and partitioned properly. Refer to the ASUS website at <http://www.asus.com> for the HD file system support table.

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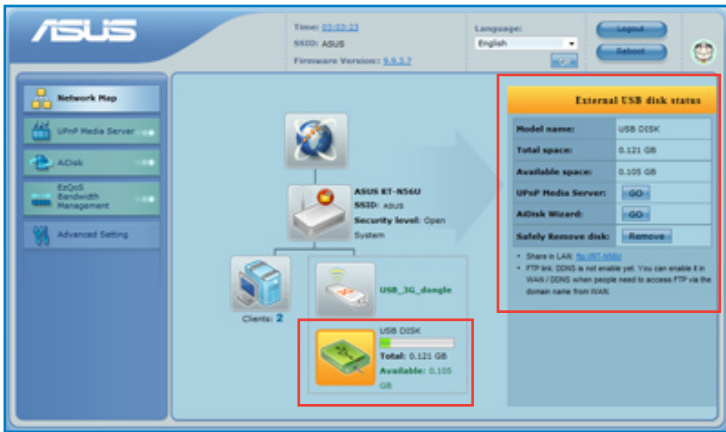
**IMPORTANT!** You first need to create a user account to allow other network clients to access the USB device. For more details, refer to the section **Sharing files from a USB storage device** in this user manual.

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### To monitor your USB device:

1. Launch the wireless router's web GUI.

2. On the **Network Map** screen, select the **USB Disk Status** icon to display the information about your USB device.



3. On the **UPnP Media Server** field, click **GO** to allow UPnP (Universal Plug and Play) devices such as PS3 to access the multimedia files in your USB disk.



**NOTE:** For more details, refer to the next section **Using your router as a UPnP Media Server** in this user manual.

4. On the **AiDisk Wizard** field, click **GO** to set up an FTP server for Internet file sharing.



**NOTE:** For more details, refer to the section **Using AiDisk for an FTP Server and Network Neighborhood setup** in this user manual.

# Using your router as a UPnP Media Server

Your wireless router allows UPnP (Universal Plug and Play) multimedia devices, such as PS3 and Xbox 360, to access multimedia files from the USB disk connected to your wireless router.



**NOTE:** Before using the UPnP Media Server function, install a wireless adapter on your UPnP device.

## To use your router as a UPnP Server:

1. Click **UPnP Media Server** from the navigation menu at the left side of your screen.
2. Select **Enabled**. Your wireless router is now ready to share the media files stored in the USB disk.



**NOTE:** For details on connecting a UPnP device to the wireless router and accessing the media files on the USB disk, refer to the UPnP device's user manual.



**IMPORTANT!** For details on sharing files/contents from a USB disk, refer to the section **Sharing files from a USB device** on this user manual.

# Using AiDisk for an FTP Server and Network Neighborhood setup

AiDisk allows you to set up an FTP server and share the content of a USB disk to the clients in your network.



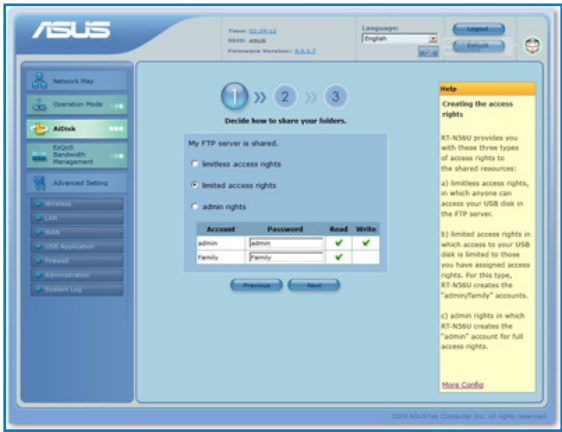
**NOTE:** Before using AiDisk, ensure that you have inserted a USB disk into the USB port of your wireless router.

## To use AiDisk:

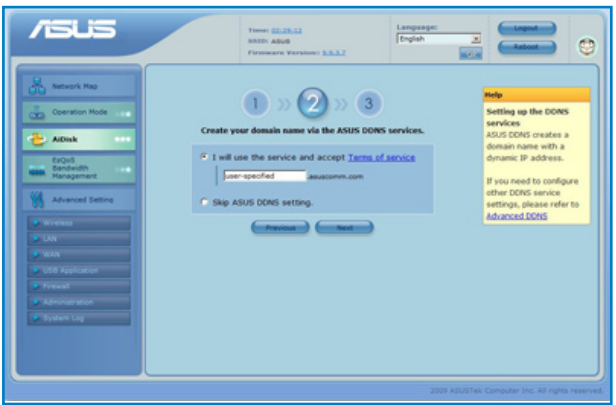
1. Click **AiDisk** from the navigation menu at the left side of your screen.
2. From the **Welcome to AiDisk wizard** screen, click **Go**.



3. Select the access rights that you want to assign to the clients accessing your shared data.



4. To create your own domain for your FTP site via the ASUS DDNS services, select **I will use the service and accept the Terms of service** and key in your domain name.
5. Click **Next** to finish the setup.





- When done, click **Finish**.
- To access the FTP site that you created, launch a web browser or a third-party FTP client utility and key in the ftp link (**ftp://<domain name>**) you have previously created.

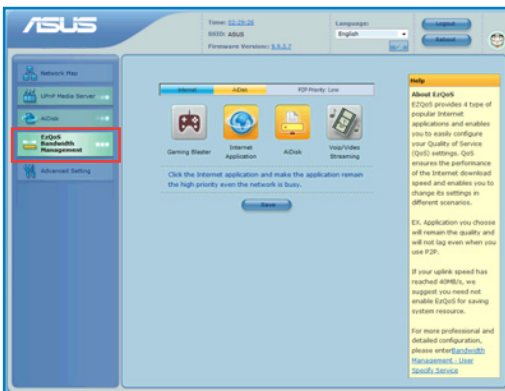


## Managing EZQoS Bandwidth





EZQoS Bandwidth Management allows you to set the bandwidth priority and manage the network traffic.

**To set up the bandwidth priority:**

- Click **EZQoS Bandwidth Management** from the navigation menu at the left side of your screen.



2. Click each of these four applications to set the bandwidth priority:

Icon	Description
	<b>Gaming Blaster</b> The router handles gaming traffic at first priority.
	<b>Internet Application</b> The router handles the e-mail, web browsing and other Internet applications traffic at first priority.
	<b>AiDisk</b> The router handles at first priority the traffic of downloading/ uploading data to/from the FTP server.
	<b>Voip/Video Streaming</b> The router handles the audio/video traffic at first priority.

3. Click **Save** to save the configuration settings.

# Configuring the Advanced settings

Advanced Setting allows you to configure the advanced features of your wireless router.



## Setting up the DHCP Server

You may enable the **DHCP Server** function in your wireless router so your network clients can automatically obtain IP addresses from your wireless router.



**NOTE:** The ASUS Wireless Router can support up to 253 IP addresses for your network.

### To set up the DHCP server:

1. Click **Advanced Setting** from the navigation menu at the left side of your screen.
2. Under the **LAN** menu, click **DHCP Server**.

LAN - DHCP Server	
RT-N56U supports up to 253 IP addresses for your local network. The IP address of a local machine can be assigned manually by the network administrator or obtained automatically from RT-N56U if the DHCP server is enabled.	
Enable the DHCP Server?	<input checked="" type="radio"/> Yes <input type="radio"/> No
RT-N56U's Domain Name:	<input type="text"/>
IP Pool Starting Address:	<input type="text" value="192.168.1.2"/>
IP Pool Ending Address:	<input type="text" value="192.168.1.254"/>
Lease Time:	<input type="text" value="86400"/>
Default Gateway:	<input type="text"/>

3. In the **Enable the DHCP Server?** field, tick **Yes**.
4. In the **IP Pool Starting Address** field, key in the starting IP address.
5. In the **IP Pool Ending Address** field, key in the ending IP address.
6. In the **Lease Time** field, key in the time that the IP addresses expire and the wireless router automatically assigns new IP Addresses for the network clients.




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### IMPORTANT!

- For the IP Pool Starting and Ending IP addresses, we recommend that you use:
    - **IP address:** 192.168.1.xxx (xxx can be any number between 2 and 254)
  - IP Pool Starting Address should not be greater than the IP Pool Ending Address.
-

## Upgrading the firmware



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**NOTE:** Download the latest firmware from the ASUS website at <http://www.asus.com>

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### To upgrade the firmware:

1. Click **Advanced Setting** from the navigation menu at the left side of your screen.
2. Under the **Administration** menu, click **Firmware Upgrade**.
3. In the **New Firmware File** field, click **Browse** to locate the new firmware on your computer.
4. Click **Upload**. The uploading process takes about three minutes.



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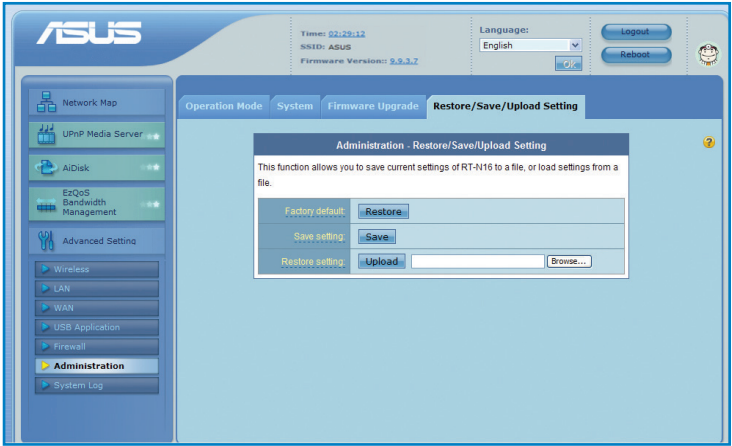
**NOTE:** If the upgrade process fails, the wireless router automatically enters the rescue mode and the power LED indicator at the front panel flashes slowly. To recover or restore the system, use the Firmware Restoration utility.

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# Restoring/Saving/Uploading settings

## To restore/save/upload the settings:

1. Click **Advanced Setting** from the navigation menu at the left side of your screen.



2. Under the Administration menu, click Restore/Save/Upload Setting.
3. Select the tasks that you want to do:
  - To restore to the default factory settings, click **Restore**, and click **OK** in the confirmation message.
  - To save the current system settings, click **Save**, and click **Save** in the file download window to save the system file in your preferred path.
  - To restore previous system settings, click **Browse** to locate the system file that you want to restore, then click **Upload**.

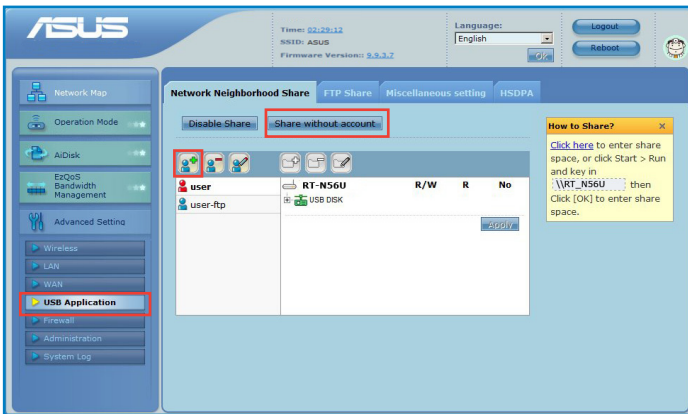
# Sharing files from a USB storage device


## Creating a user account

You need to create user accounts before you can share the files or data in the USB storage device.

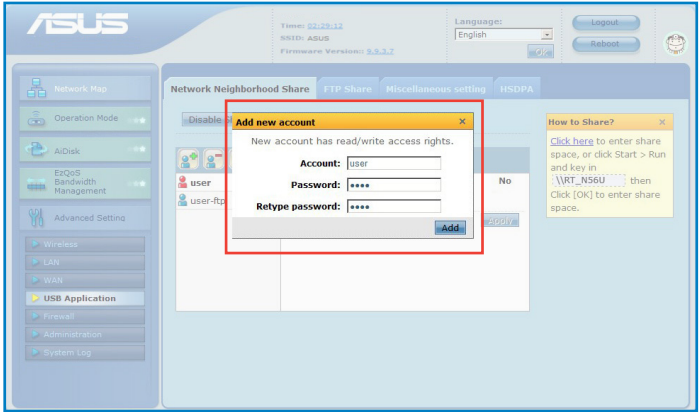
### To create a user account:

1. Click **Advanced Setting** > **USB Application** from the navigation menu at the left side of your screen.



2. Click **Share with account**, and click **OK** to enable the sharing feature.
3. Click the Add account icon .

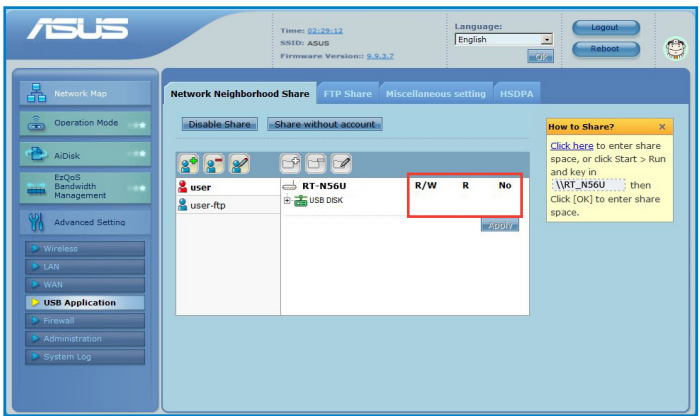
4. In the **Account** and **Password** fields, key in the name and password of the client/computer in your network. Retype the password to confirm. Click **Add** to add the account to the list.



## Assigning access rights

To assign access rights:

1. Click **Advanced Setting > USB Application** from the navigation menu at the left side of your screen.
2. Select the account that you want to assign access rights to.





3. From the list of file folders, select the type of access rights that you want to assign for specific file folders:
  - **R/W**: Select this option to assign read/write access for a specific file folder.
  - **R**: Select this option to assign read only access for a specific file folder.
  - **No**: Select this option if you do not want to share a specific file folder.
4. Click **Apply** to apply the changes.
5. From the **Miscellaneous setting** tab, set the Work Group to **WORKGROUP** to enable all computers within **WORKGROUP** to access the wireless router's USB storage device.
6. Launch **My Network Place** from a computer connected to the wireless router. Click **view work group computers** to view the wireless router in the Workgroup category. All files on the USB storage device are now shared to computers in your network.

## Sharing files via the FTP server

The ASUS Wireless Router enables you to share files from your USB storage device via the FTP server with computers in LAN or through the Internet.



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**IMPORTANT!** To use this feature, you need to insert a USB storage device, such as a USB hard disk or USB flash drive, to the USB2.0 port on the rear panel of your wireless router. Ensure that the USB storage device is formatted and partitioned properly. Refer to the ASUS website at <http://www.asus.com> for the HD file system support table.

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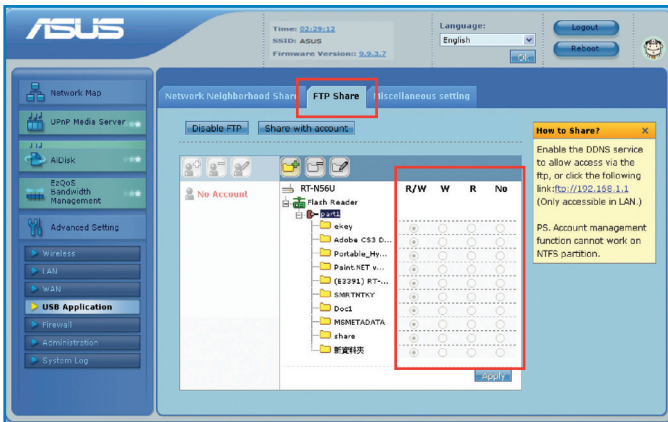
## To share files via the FTP server:

1. Ensure that you have set up your FTP server through AiDisk.



**NOTE:** For more details, refer to the section **Using AiDisk for an FTP Server and Network Neighborhood setup** in this user manual.

2. Enable the DDNS service for FTP server access. To do this, follow these steps:
  - a. From the navigation menu, click **Advanced > WAN > DDNS** tab.
  - b. In the **Enable the DDNS Client?** field, tick **Yes**.
  - c. Key in your **User Name or E-mail Address** and **Password or DDNS key**.
  - d. Key in your **Host name**. The format should be **xxx.asuscomm.com**, where xxx is your host name.
  - e. When done, click **Apply**.
3. From the navigation menu, click **Advanced Setting > USB Application > FTP Share** tab and select the account that you want to assign access rights to.



4. From the list of files/folders, select the type of access rights that you want to assign for specific files/folders:
  - **R/W**: Select this option to assign read/write access for a specific file/folder.
  - **W**: Select this option to assign write only access for a specific file/folder.
  - **R**: Select this option to assign read only access for a specific file/folder.
  - **No**: Select this option if you do not want to share a specific file/folder.
5. Click **Apply** to apply the changes.
6. To access the FTP server, key in the ftp link **ftp://<hostname>.asuscomm.com** and your user name and password on a web browser or a third-party FTP utility.

# Setting up your network printer

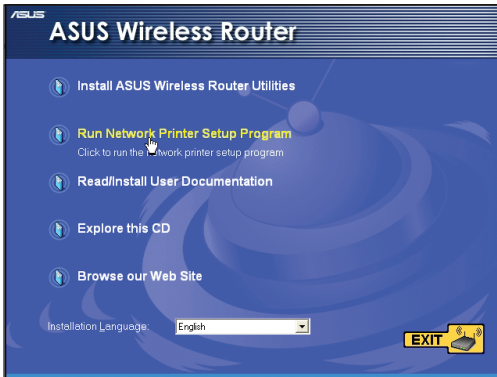
Use the Network Printer Setup utility to set up a USB printer on your wireless router and allow network clients to access the USB printer.



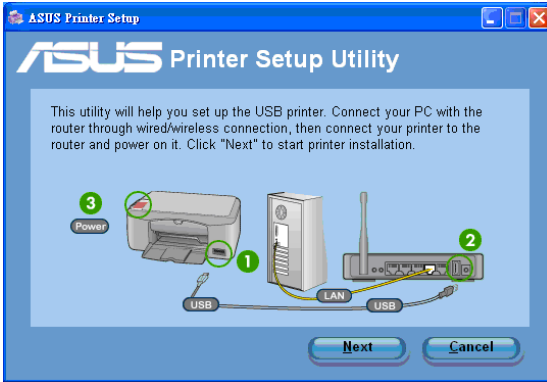
**NOTE:** To check if your USB printer is compatible with your ASUS wireless router, visit the ASUS website at [www.asus.com](http://www.asus.com) and click **Products > Networks > Printer Support List**.

## To set up your USB Printer:

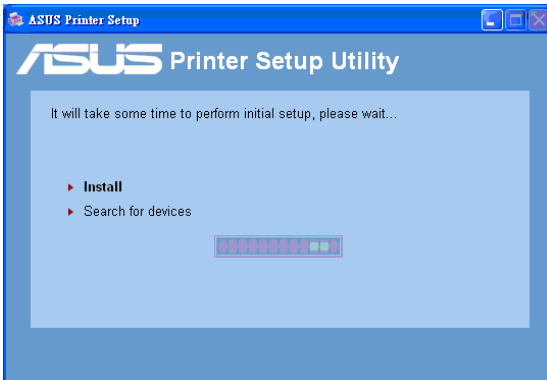
1. Run the ASUS Wireless Utilities from the support CD, then click **Run Network Printer Setup Program**.



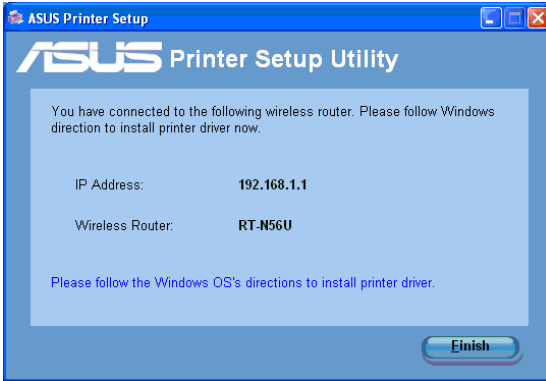
2. Follow the onscreen instructions to set up your hardware, then click **Next**.



3. Wait for a few minutes for the initial setup to finish. Click **Next**.



4. Click **Finish** to complete the installation.



5. Follow the Windows® OS instructions to install the printer driver.



6. After the printer's driver installation is completed, network clients can now use the printer.

