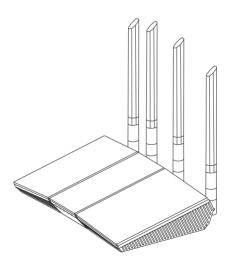
User Guide

RT-AX57 Dual Band Wi-Fi Router





E25463 Revised Edition V3 October 2024

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Table of contents

1	Getting to know your wireless router
1.1	Welcome!6
1.2	Package contents6
1.3	Your wireless router7
1.4	Positioning your router9
1.5	Setup Requirements 10
2	Getting started
2.1	Router Setup11
	A. Wired connection12
	B. Wireless connection13
2.2	Quick Internet Setup (QIS) with Auto-detection
2.3	Connecting to your wireless network
3	Configuring the General and Advanced settings
3.1	Logging into the Web GUI 17
3.2	Using the Network Map18
	3.2.1 Setting up the wireless security settings
	3.2.2 Managing your network clients
3.3	AiProtection
	3.3.1 Network Protection
	3.3.2 Setting up Parental Controls25
3.4	Administration27
	3.4.1 Operation Mode
	3.4.2 Firmware Upgrade
	3.4.3 Restore/Save/Upload Setting
3.5	Firewall
	3.5.1 General29
	3.5.2 URL Filter

Table of contents

	3.5.3 Keyword filter	
	3.5.4 Network Services Filter	31
3.6	Guest Network	
3.7	IPv6	
3.8	LAN	
	3.8.1 LAN IP	
	3.8.2 DHCP Server	
	3.8.3 Route	
	3.8.4 IPTV	40
3.9	System Log	
3.10	Traffic Analyzer	
3.11	Traffic Manager	
	3.11.1 Managing QoS (Quality of Service) Bandwidt	h43
3.12	WAN	
	3.12.1 Internet Connection	46
	3.12.2 Port Trigger	49
	3.12.3 Virtual Server/Port Forwarding	51
	3.12.4 DMZ	54
	3.12.5 DDNS	55
	3.12.6 NAT Passthrough	56
3.13	Wireless	57
	3.13.1 General	57
	3.13.2 WPS	60
	3.13.3 WDS	62
	3.13.4 Wireless MAC Filter	64
	3.13.5 RADIUS Setting	65
	3.13.6 Professional	66

Table of contents

4	Utilities	
4.1	Device Discovery	69
4.2	Firmware Restoration	70
5	Troubleshooting	
5.1	Basic Troubleshooting	72
5.2	Frequently Asked Questions (FAQs)	75
App	pendices	

Safety Notices	93
Service and Support	95

1 Getting to know your wireless router

1.1 Welcome!

Thank you for purchasing an ASUS RT-AX57 Wireless Router! The ultra-thin and stylish RT-AX57 features a 2.4GHz and 5GHz dual bands for an unmatched concurrent wireless HD streaming and the ASUS Green Network Technology, which provides up to 70% power-saving solution.

1.2 Package contents

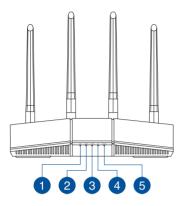
☑ RT-AX57 Wireless Router
 ☑ Power adapter

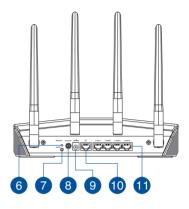
✓ Network cable (RJ-45)✓ Quick Start Guide

NOTES:

- If any of the items are damaged or missing, contact ASUS for technical inquiries and support. Refer to Service and Support at the back of this user manual.
- Keep the original packaging material in case you would need future warranty services such as repair or replacement.

1.3 Your wireless router







2

3

4

5

5GHz LED

Off: No 5GHz signal. On: Wireless system is ready. Flashing: Transmitting or receiving data via wireless connection. 2.4GHz LED Off: No 2.4GHz signal. On: Wireless system is ready. Flashing: Transmitting or receiving data via wireless connection. LAN LED Off: No power or no physical connection. **On**: Has physical connection to a local area network (LAN). WAN (Internet) LED Red: No IP or no physical connection. On: Has physical connection to a wide area network (WAN). Power LED Off: No power. On: Device is ready. Flashing slow: Rescue mode **Reset button** This button resets or restores the system to its factory default settings. WPS button This button launches the WPS Wizard.



6

Power switch

Press this switch to power on or off the system.



Power (DCIN) port

Insert the bundled AC adapter into this port and connect your router to a power source.



WAN (Internet) port

Connect a network cable into this port to establish WAN connection.



LAN 1 ~ 4 ports

Connect network cables into these ports to establish LAN connection.

NOTES:

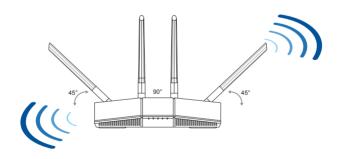
- Use only the adapter that came with your package. Using other adapters may damage the device.
- Specifications:

DC Power adapter	DC Output: +12V with max 1A/1.5A current			
Operating Temperature	0~40°C	Storage	0~70°C	
Operating Humidity	50~90%	Storage	20~90%	

1.4 Positioning your router

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 802.11g or 20MHz only Wi-Fi devices, 2.4GHz computer peripherals, Bluetooth devices, cordless phones, transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators, and other industrial equipment to prevent signal interference or loss.
- Always update to the latest firmware. Visit the ASUS website at <u>http://www.asus.com</u> to get the latest firmware updates.



1.5 Setup Requirements

To set up your wireless network, you need a computer that meets the following system requirements:

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

NOTES:

- If your computer does not have built-in wireless capabilities, you may install an IEEE 802.11a/b/g/n/ac/ax 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.
- Some IEEE 802.11n devices that you want to connect to your network may or may not support 5GHz band. Refer to the device's manual for specifications.
- The Ethernet RJ-45 cables that will be used to connect the network devices should not exceed 100 meters.

IMPORTANT!

- Some wireless adapters might have connectivity issues to 802.11ax WiFi APs.
- If you're experiencing such issue, please ensure you update the driver to the latest version. Check your manufacturer's official support site where software drivers, updates, and other related information can be obtained.
 - Realtek: <u>https://www.realtek.com/en/downloads</u>
 - Mediatek: <u>https://www.mediatek.com/products/connectivity-and-networking/broadband-wifi</u>
 - Intel: <u>https://downloadcenter.intel.com/</u>

2 Getting started

2.1 Router Setup

IMPORTANT!

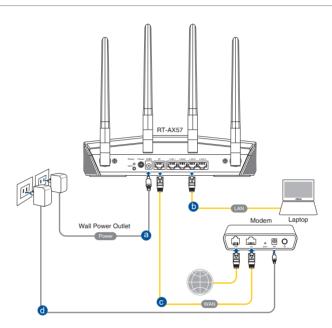
- Use a wired connection when setting up your wireless router to avoid possible setup problems.
- Before setting up your ASUS wireless router, do the followings:
 - If you are replacing an existing router, disconnect it from your network.
 - Disconnect the cables/wires from your existing modem setup. If your modem has a backup battery, remove it as well.
 - Reboot your cable modem and computer (recommended).

WARNING!

- The power supply cord(s) must be plugged into socket-outlet(s) that is /are provided with a suitable earth ground. Connect the equipment only to a nearby socket outlet that is easily accessible.
- If the Adapter is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.
- DO NOT use damaged power cords, accessories, or other peripherals.
- DO NOT mount this equipment higher than 2 meters.
- Use this product in environments with ambient temperatures between 0°C (32°F) and 40°C (104°F).

A. Wired connection

NOTE: You can use either a straight-through cable or a crossover cable for wired connection.



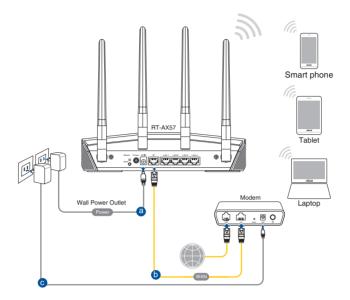
To set up your wireless router via wired connection:

- 1. Insert your wireless router's AC adapter to the DCIN port and plug it to a power outlet.
- 2. Using the bundled network cable, connect your computer to your wireless router's LAN port.

IMPORTANT! Ensure that the LAN LED is blinking.

- 3 Using another network cable, connect your modem to your wireless router's WAN port.
- 4. Insert your modem's AC adapter to the DCIN port and plug it to a power outlet.

B. Wireless connection



To set up your wireless router via wireless connection:

- 1. Insert your wireless router's AC adapter to the DCIN port and plug it to a power outlet.
- 2 Using the bundled network cable, connect your modem to your wireless router's WAN port.
- 3. Insert your modem's AC adapter to the DCIN port and plug it to a power outlet.
- 4. Install an IEEE 802.11a/b/g/n/ac/ax 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 **3.2.1 Setting up the wireless security settings**.

2.2 Quick Internet Setup (QIS) with Autodetection

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

NOTE: When setting the Internet connection for the first time, press the Reset button on your wireless router to reset it to its factory default settings.

To use QIS with auto-detection:

- Launch a web browser. You will be redirected to the ASUS Setup Wizard (Quick Internet Setup). If not, key in <u>http://www.asusrouter.com</u> manually.
- 2. The wireless router automatically detects if your ISP connection type is **Dynamic IP**, **PPPoE**, **PPTP** and **L2TP**. Key in the necessary information for your ISP connection type.

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

NOTES:

- 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.
- If QIS failed to detect your Internet connection type, click **Manual Setting** and manually configure your connection settings.
- 3. Assign the wireless network name (SSID) and security key for your 2.4GHz and 5GHz wireless connection. Click **Apply** when done.

Wireless Settings	Assign a unique name or SSID (Service Set Identifier) to help identify your wireless network. 2.4GHz Network Name (SSID)	
	2.4GHz Wireless Security	۲
	5GHz Network Name (SSID)	
	5GHz Wireless Security	0
	Separate 2.4GHz and 3GHz	
	Previous Apply	

4. On the **Login Information Setup** page, change the router's login password to prevent unauthorized access to your wireless router.

Login Usemane / Password Settings	Change the router password to prevent unauthorized access your ASUS wireless router. Router Login Name	; to
	New password	٢
	Retype Password Previous Hest	
_		

NOTE: The wireless router's login username and password is different from the 2.4GHz/5GHz network name (SSID) and security key. The wireless router's login username and password allows you to log into your wireless router's Web GUI to configure your wireless router's settings. The 2.4GHz/5GHz network name (SSID) and security key allows Wi-Fi devices to log in and connect to your 2.4GHz/5GHz network.

2.3 Connecting to your wireless network

After setting up your wireless router via QIS, you can connect your computer or other smart devices to your wireless network.

To connect to your network:

- 1. On your computer, click the network icon in the notification area to display the available wireless networks.
- 2. Select the wireless network that you want to connect to, then click **Connect**.
- 3. You may need to key in the network security key for a secured wireless network, then click **OK**.
- 4. Wait while your computer establishes connection to the wireless network successfully. The connection status is displayed and the network icon displays the connected status.

NOTES:

- Refer to the next chapters for more details on configuring your wireless network's settings.
- Refer to your device's user manual for more details on connecting it to your wireless network.

3 Configuring the General and Advanced settings

3.1 Logging into the Web GUI

Your ASUS Wireless Router comes with an intuitive web graphical 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.

NOTE: The features may vary with different firmware versions.

To log into the web GUI:

- 1. On your web browser, manually key in the wireless router's default IP address: <u>http://www.asusrouter.com</u>.
- 2. On the login page, key in the user name and password that you have set in **2.2 Quick Internet Setup (QIS) with Auto-detection**.



3. You can now use the Web GUI to configure various settings of your ASUS Wireless Router.



NOTE: If you are logging into the Web GUI for the first time, you will be directed to the Quick Internet Setup (QIS) page automatically.

3.2 Using the Network Map

Network Map allows you to configure your network's security settings and manage your network clients.



3.2.1 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. From the navigation panel, go to **General** > **Network Map**.
- 2. On the Network Map screen and under **System Status**, you can configure 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.

System Status	
Wireless Status	
2.4 GHz	
Network Name (SSID)	
ASUS_40	
Authentication Method	
WPA2-Personal 🗸	
WPA Encryption	
AES 🗸	
WPA-PSK key	
banking_2345	
5 GHz	
Network Name (SSID)	
ASUS_40	
Authentication Method	
WPA2-Personal 🗸	
WPA Encryption	
AES 🗸	
WPA-PSK key	
banking_2345	
Apply	

2.4GHz / 5GHz security settings

3. On the **Network Name (SSID)** field, key in a unique name for your wireless network.

4. From the **WEP Encryption** dropdown list, select the encryption method for your wireless network.

IMPORTANT! The IEEE 802.11n/ac/ax 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.

- 5. Key in your security passkey.
- 6. Click Apply when done.

3.2.2 Managing your network clients



To manage your network clients:

- 1. From the navigation panel, go to **General** > **Network Map**.
- 2. On the Network Map screen, select the **Client Status** icon to display your network client's information.
- 3. To block a client's access to your network, select the client and click **block**.

3.3 AiProtection

AiProtection provides real-time monitoring that detects malware, spyware, and unwanted access. It also filters unwanted websites and apps and allows you to schedule a time that a connected device is able to access the Internet.

AiPro	tection
ť	Network Protection with Trend Micro protects against network exploits to secure your network from unwanted access. AlProtection FAQ
Enabl	ed AlProtection ON
٩	Router Security Assessment Scan your router to find vulnerabilities and offer available options to enhance your devices protection. Scan
2	Malicious Sites Blocking Restrict access to known malicious websites to protect your network from malware, phishing, spam, adware, hacking, and ransomware attacks.

3.3.1 Network Protection

Network Protection prevents network exploits and secures your network from unwanted access.



Configuring Network Protection

To configure Network Protection:

- 1. From the navigation panel, go to **General** > **AiProtection**.
- 2. From the **AiProtection** main page, click on **Network Protection**.
- 3. From the **Network Protection** tab, click **Scan**.

When done scanning, the utility displays the results on the **Router Security Assessment** page.

Default router login username and password changed -	No	
Wireless password strength check -	Very Weak	
Wireless encryption enabled -	Strong	
WPS Disabled -		
UPnP service disabled -		
Web access from WAN disabled -	Yes	
PING from WAN disabled -	Yes	
DMZ disabled -	Yes	
Port trigger disabled -	Yes	
Port forwarding disabled -	Yes	
Anonymous login to FTP share disabled -	Yes	
Disable guest login for Network Place Share -	Yes	Da
Malicious Website Blocking enabled -		
Vulnerability Protection enabled -		
Infected Device Prevention and Blocking -		
Micro's database for always-up-to-date protection.		

IMPORTANT! Items marked as Yes on the Router Security Assessment page is considered to be at a safe status. Items marked as No, Weak, or Very Weak is highly recommended to be configured accordingly.

- (Optional) From the Router Security Assessment page, manually configure the items marked as No, Weak, or Very Weak. To do this:
 - a. Click an item.

NOTE: When you click an item, the utility forwards you to the item's setting page.

- b. From the item's security settings page, configure and make the necessary changes and click **Apply** when done.
- c. Go back to the **Router Security Assessment** page and click **Close** to exit the page.
- 5. To automatically configure the security settings, click **Secure Your Router.**
- 6. When a message prompt appears, click **OK**.

Malicious Sites Blocking

This feature restricts access to known malicious websites in the cloud database for an always-up-to-date protection.

NOTE: This function is automatically enabled if you run the **Router Weakness Scan**.

To enable Malicious Sites Blocking:

- 1. From the navigation panel, go to **General** > **AiProtection**.
- 2. From the **AiProtection** main page, click on **Network Protection**.
- 3. From the Malicious Sites Blocking pane, click ON.

Infected Device Prevention and Blocking

This feature prevents infected devices from communicating personal information or infected status to external parties.

NOTE: This function is automatically enabled if you run the **Router Weakness Scan**.

To enable Infected Device Prevention and Blocking:

- 1. From the navigation panel, go to **General** > **AiProtection**.
- 2. From the **AiProtection** main page, click on **Network Protection**.
- 3. From the **Infected Device Prevention and Blocking** pane, click **ON**.

To configure Alert Preference:

- 1. From the **Infected Device Prevention and Blocking** pane, click **Alert Preference**.
- 2. Select or key in the e-mail provider, e-mail account, and password then click **Apply**.

3.3.2 Setting up Parental Controls

Parental Controls allows you to control the Internet access time or set the time limit for a client's network usage.

To go to the Parental Controls main page:

- 1. From the navigation panel, go to **General** > **AiProtection**.
- 2. From the **AiProtection** main page, click on the **Parental Controls** tab.

AiPro	otection	
Enab	Network Protection with Trend Micro protects against ne exploits to secure your network from unwanted access. AlProtection FAQ	hvork
•	Router Security Assessment Scan your router to find vulnerabilities and offer available options to enhance your devices protection.	Danger
2	Malicious Sites Blocking Restrict access to known malicious websites to protect your network from malware, phishing, spam, adware, hacking, and ransomware attacks.	O Protection Since 2023/08/29 14:06
3	Infected Device Prevention and Blocking This feature prevents infected devices from being enslaved by botnets or zomble attacks which might steal your personal information or attack other devices.	O Protection Since 2023/08/29 14 06
		Alert Preference

Time Scheduling

Time Scheduling allows you to set the time limit for a client's network usage.

NOTE: Ensure that your system time is synchronized with the NTP server.

AiProtection - Time	Scheduling			
	mits for a specific client's	network usage:		
 In the [Clients Name] column, select the client whose network usage you want to control. You may also key in the clients MAC address in the [Clients MAC Address] column. In the [Mar / Delet] column, click the plus(4) icon to add the client. In the [Mar / Delet] column, click the solid icon to add the client. In the [Mar / Delet] column, click the solid icon to add the client. Select your time slot with a click. You can hold and drag to extend the duration. Click [OX] to save the satings made. Note: Clients that are added to Parential Controls will have their internet access restricted by dwhult. 				
Enable Time Scheduling	ON			
System Time Sat, May 05 13:52:01 2018 * Remainder: The system time has not been synchronized with an NTP server.				
Client List (Max Limit :	: 64)			
Select all ~	Client Name (MAC Address)	Time Management	Add / Delete	
Time 🗸 ex: 24.48.FF:15:00:08 💌 -			Ŧ	
	No data in table.			
	Apply			

To configure Time Scheduling:

- 1. From the navigation panel, go to **General** >**AiProtection** > **Parental Controls** > **Time Scheduling**.
- 2. From the Enable Time Scheduling pane, click ON.
- 3. From the **Clients Name** column, select or key in the client's name from the drop down list box.

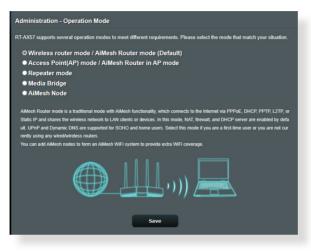
NOTE: You may also key in the client's MAC address in the **Client MAC Address** column. Ensure that the client name does not contain special characters or spaces as these may cause the router to function abnormally.

- 4. Click
 to add the client's profile.
- 5. Click **Apply** to save the settings.

3.4 Administration

3.4.1 Operation Mode

The Operation Mode page allows you to select the appropriate mode for your network.



To set up the operating mode:

- 1. From the navigation panel, go to Advanced Settings > Administration > Operation Mode.
- 2. Select any of these operation modes:
 - Wireless router mode (default): In wireless router mode, the wireless router connects to the Internet and provides Internet access to available devices on its own local network.
 - **Repeater mode**: This mode turns the router into a wireless repeater to extend the range of your signal.
 - Access Point mode: In this mode, the router creates a new wireless network on an existing network.
- 3. Click Save.

NOTE: The router will reboot when you change the modes.

3.4.2 Firmware Upgrade

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

To upgrade the firmware:

- 1. From the navigation panel, go to **Advanced Settings** > **Administration** > **Firmware Upgrade**.
- 2. In the **New Firmware File** field, click **Browse** to locate the downloaded file.
- 3. Click Upload.

NOTES:

- When the upgrade process is complete, wait for some time for the system to reboot.
- If the upgrade process fails, the wireless router automatically enters rescue mode and the power LED indicator on the front panel starts flashing slowly. To recover or restore the system, refer to section 4.2 Firmware Restoration.

3.4.3 Restore/Save/Upload Setting

To restore/save/upload wireless router settings:

- 1. From the navigation panel, go to Advanced Settings > Administration > Restore/Save/Upload Setting.
- 2. 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**, navigate to the folder where you intend to save the file and click **Save**.
 - To restore from a saved system settings file, click **Browse** to locate your file, then click **Upload**.

IMPORTANT! If issues occur, upload the latest firmware version and configure new settings. Do not restore the router to its default settings.

3.5 Firewall

The wireless router can serve as a hardware firewall for your network.

NOTE: The Firewall feature is enabled by default.

3.5.1 General

To set up basic Firewall settings:

- 1. From the navigation panel, go to **Advanced Settings** > **Firewall** > **General**.
- 2. On the Enable Firewall field, select Yes.
- 3. On the **Enable DoS** protection, select **Yes** to protect your network from DoS (Denial of Service) attacks though this may affect your router's performance.
- 4. You can also monitor packets exchanged between the LAN and WAN connection. On the Logged packets type, select **Dropped**, **Accepted**, or **Both**.
- 5. Click Apply.

3.5.2 URL Filter

You can specify keywords or web addresses to prevent access to specific URLs.

NOTE: The URL Filter is based on a DNS query. If a network client has already accessed a website such as http://www.abcxxx.com, then the website will not be blocked (a DNS cache in the system stores previously visited websites). To resolve this issue, clear the DNS cache before setting up the URL Filter.

To set up a URL filter:

1. From the navigation panel, go to **Advanced Settings** > **Firewall** > **URL Filter**.

- 2. On the Enable URL Filter field, select **Enabled**.
- 3. Enter a URL and click the 🕑 button.
- 4. Click Apply.

3.5.3 Keyword filter

Keyword filter blocks access to webpages containing specified keywords.

Firewall - Keyword Filter		
Keyword Filter allows you to block the clients' access to webpages containing the specified keywords.		
Limitations of the filtering function :		
 Compressed webpages that use HTTP compression technology cannot be filtered. <u>See: her e</u> Https webpages cannot be filtered. 	<u>for more details.</u>	
Basic Config		
Enable Keyword Filter • Enabled • Disabled		
Keyword Filter List (Max Limit : 64)		
Keyword Filter List	Add / Delete	
	Ð	
No data in table.		
Αρρίγ		

To set up a keyword filter:

- From the navigation panel, go to Advanced Settings > Firewall > Keyword Filter.
- 2. On the Enable Keyword Filter field, select **Enabled**.
- 3. Enter a word or phrase and click the **Add** button.
- 4. Click Apply.

NOTES:

- The Keyword Filter is based on a DNS query. If a network client has already accessed a website such as http://www.abcxxx.com, then the website will not be blocked (a DNS cache in the system stores previously visited websites). To resolve this issue, clear the DNS cache before setting up the Keyword Filter.
- Web pages compressed using HTTP compression cannot be filtered. HTTPS pages also cannot be blocked using a keyword filter.

3.5.4 Network Services Filter

The Network Services Filter blocks LAN to WAN packet exchanges and restricts network clients from accessing specific web services such as Telnet or FTP.

Firewall - Network Services Filter				
The Network Services filter blocks the LAN to WAN packet exchanges and restricts devices from using specific network services. For example, if you do not want the device to use the Internet service, key in 80 in the destination port. The traffic that uses port 80 will be blocked (but https://an.org/the.internet.service). The blocked is a service of the block service is a service of the block service.				
Black List Duration : During the scheduled duration, clients in the Black List cannot use the specified network services. After the specified duration, all the clients in LAN can access the specified network services. White List Can ONLY use the specified network services. After the specified duration, clients in the White List and other network clients will not be able to access the Internet or any Internet service.				
NOTE : If you set the subnet for the White List, IP addresses outside the subnet will not be able to access the Internet or any Internet service.				
* Reminder: The System time zone is different fro	om your locale setting,			
Network Services Filter				
Enable Network Services Filter	● Yes ● No			
Filter table type	Black List V			
Well-Known Applications	User Defined •			
Date to Enable LAN to WAN Filter	🖾 Mon 🖾 Tue 🖾 Wed 🖾 Thu 🖾 Fri			
Time of Day to Enable LAN to WAN Filter	00 : 00 - 23 : 59			
Date to Enable LAN to WAN Filter				
Time of Day to Enable LAN to WAN Filter	00 : 00 - 23 : 59			
Filtered ICMP packet types				
Network Services Filter Table (Max Limit : 32)				
Source IP Port Range	Destination IP Port Range Protocol Add / Delete			
	тср • 🔶			
No data in table.				
	Apply			

To set up a Network Service filter:

- 1. From the navigation panel, go to **Advanced Settings** > **Firewall** > **Network Service Filter**.
- 2. On the Enable Network Services Filter field, select Yes.
- 3. Select the Filter table type. **Black List** blocks the specified network services. **White List** limits access to only the specified network services.
- 4. Specify the day and time when the filters will be active.
- 5. To specify a Network Service to filter, enter the Source IP, Destination IP, Port Range, and Protocol. Click the 💮 button.
- 6. Click Apply.

3.6 Guest Network

The Guest Network provides temporary visitors with Internet connectivity via access to separate SSIDs or networks without providing access to your private network.

NOTE: RT-AX57 supports up to six SSIDs (three 2.4GHz and three 5GHz SSIDs).

To create a guest network:

- 1. From the navigation panel, go to **General** > **Guest Network**.
- 2. On the Guest Network screen, select 2.4GHz or 5GHz frequency band for the guest network that you want to create.
- 3. Click Enable.

Guest Network			
	Guest Network provides Internet r local network.	connection for guests but	restricts access to
Network Name (SSID)			
Authentication Method			
Network Key	Enable	Enable	Enable
Time Remaining			Default setting by Alexa/IFTTT
Access Intranet			
Network Name (SSID)			
Authentication			
Method			
Network Key	Enable	Enable	Enable
Time Remaining			Default setting by Alexa/IFTTT

4. To configure additional options, click **Modify**.

Suest Network			
	e Guest Network provides Inte r local network.	ernet connection for guests but	restricts access to
Network Name (SSID)	ASUS_2G_Guest		
Authentication Method	Open System		
Network Key	None	Enable	Enable
Time Remaining	Unlimited access		Default setting by Alexa/IFTTT
	Remove		
Network Name (SSID)	ASUS 5G Guest		
Authentication Method	Open System		
Network Key	None	Enable	Enable
Time Remaining	Unlimited access	Enable	Default setting by Alexa/IFTTT
	off		
	Remove		

- 5. Click Yes on the Enable Guest Network screen.
- 6. Assign a wireless name for your temporary network on the **Network Name (SSID)** field.
- 7. Select an Authentication Method.
- 8. Select an **Encryption** method.
- 9. Specify the Access time or choose Limitless.
- 10.Select Disable or Enable on the Access Intranet item.
- 11.When done, click **Apply**.

3.7 IPv6

This wireless router supports IPv6 addressing, a system that supports more IP addresses. This standard is not yet widely available. Contact your ISP if your Internet service supports IPv6.

IPv6	
Configure the IPv6 Internet setting. <u>IPv6_FAQ</u>	
Basic Config	
Connection type	Disable 🔻
Apply	

To set up IPv6:

- 1. From the navigation panel, go to **Advanced Settings** > **IPv6**.
- 2. Select your **Connection Type**. The configuration options vary depending on your selected connection type.
- 3. Enter your IPv6 LAN and DNS settings.
- 4. Click Apply.

NOTE: Please refer to your ISP regarding specific IPv6 information for your Internet service.

3.8 LAN

3.8.1 LAN IP

The LAN IP screen allows you to modify the LAN IP settings of your wireless router.

NOTE: Any changes to the LAN IP address will be reflected on your DHCP settings.

LAN - LAN IP		
Configure the LAN setting of RT-AX57.		
Host Name		
RT-AX57's Domain Name		
IP Address	192.168.51.1	
Subnet Mask		
Арріу		

To modify the LAN IP settings:

- 1. From the navigation panel, go to **Advanced Settings** > **LAN** > **LAN IP**.
- 2. Modify the IP address and Subnet Mask.
- 3. When done, click **Apply**.

3.8.2 DHCP Server

Your wireless router uses DHCP to assign IP addresses automatically on your network. You can specify the IP address range and lease time for the clients on your network.

LAN - DHCP Server			
DHCP (Dynamic Host Configuration Protocol server can assign each client an IP address a 253 IP addresses for your local network. <u>Manually_Assigned_IP_around_the_D</u>	and informs the client of the of D		
Basic Config			
Enable the DHCP Server	O Yes ● No		
Domain Name			
IP Pool Starting Address	192.168.50.2		
IP Pool Ending Address	192.168.50.254		
Lease time	86400		
Default Gateway			
DNS and WINS Server Setting			
DNS Server			
WINS Server			
Manual Assignment			
Enable Manual Assignment	● Yes ● No		
Manually Assigned IP around the DHCF	P list (Max Limit : 64)		
Client Name (MAC A	ddress)	IP Address	Add / Delete
	•		Ð
	No data in table.		
	Apply		

To configure the DHCP server:

- 1. From the navigation panel, go to **Advanced Settings** > **LAN** > **DHCP Server**.
- 2. In the Enable the DHCP Server field, tick Yes.
- 3. In the **Domain Name** text box, enter a domain name for the wireless router.
- 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, specify in seconds when an assigned IP address will expire. Once it reaches this time limit, the DHCP server will then assign a new IP address.

NOTES:

- We recommend that you use an IP address format of 192.168.50.xxx (where xxx can be any number between 2 and 254) when specifying an IP address range.
- An IP Pool Starting Address should not be greater than the IP Pool Ending Address.
- 7. In the **DNS and Server Settings** section, key in your DNS Server and WINS Server IP address if needed.
- 8. Your wireless router can also manually assign IP addresses to devices on the network. On the **Enable Manual Assignment** field, choose **Yes** to assign an IP address to specific MAC addresses on the network. Up to 32 MAC Addresses can be added to the DHCP list for manual assignment.

3.8.3 Route

If your network makes use of more than one wireless router, you can configure a routing table to share the same Internet service.

NOTE: We recommend that you do not change the default route settings unless you have advanced knowledge of routing tables.

LAN - Route					
This function allows you to a to the Internet.	dd routing rules into. It	is useful if you connect several rou	ters behind I	lo share the sar	ne connection
Basic Config					
Enable static routes	•	Yes O No			
Static Route List (Max L	imit : 32)				_
Network/Host IP	Netmask	Gateway	Metric	Interface	Add / Delete
		-			Ð
		Apply			

To configure the LAN Routing table:

- 1. From the navigation panel, go to **Advanced Settings** > **LAN** > **Route**.
- 2. On the Enable static routes field, choose Yes.
- 3. On the **Static Route List**, enter the network information of other access points or nodes. Click the **Add** or **Delete** button to add or remove a device on the list.
- 4. Click Apply.

3.8.4 IPTV

The wireless router supports connection to IPTV services through an ISP or a LAN. The IPTV tab provides the configuration settings needed to set up IPTV, VoIP, multicasting, and UDP for your service. Contact your ISP for specific information regarding your service.

LAN - IPTV	
To watch IPTV, the WAN port must be conner assigned to primary WAN.	cted to the Internet. Please go to <u>WAN - Dual WAN</u> to confirm that WAN port is
LAN Port	
Select ISP Profile	
Choose IPTV STB Port	
Special Applications	
Use DHCP routes	
Enable multicast routing (IGMP Proxy)	
UDP Proxy (Udpxy)	
	Арріу

3.9 System Log

System Log contains your recorded network activities.

NOTE: System log resets when the router is rebooted or powered off.

To view your system log:

- 1. From the navigation panel, go to **Advanced Settings** > **System Log**.
- 2. You can view your network activities in any of these tabs:
 - General Log
 - DHCP Leases
 - Wireless Log
 - Port Forwarding
 - Routing Table

System Time	Thu, Aug 23 07:15:34 2018
Uptime	0 days 1 hours 18 minute(s) 11 seconds
Remote Log Server	Apply
Aug 23 06:58:52 kernel: -[(0:33:41m] Aug 23 06:58:58 kernel: -[(0:33:41m] Aug 23 06:58:57 kernel: -[(0:33:41m] Aug 23 07:07:14 mainuppd[7:68]; kernel Aug 23 07:07:15 mainuppd[7:28]; kernel	<pre>tening for iMT-MEM/KUE traffic on port 5351 WHISTAT path.dd [low ASSERT: (enroute_pathkey != PATH_IX_INVAL PATHSTAT) path.dd [low ASSERT: (enroute_pathkey !</pre>

3.10 Traffic Analyzer

The traffic monitor feature allows you to access the bandwidth usage and speed of your Internet, wired, or wireless networks. It allows you to monitor network traffic in real-time or on a daily basis. It also offers an option to display the network traffic within the last 24 hours.

Traffic Monito	r							
raffic Monitor allow	rs you to monito	r the incoming or o	utgoing packe	ts of the follow	ring:			
	Internet		Wired			Wireless		
Reception								
Transmission								
IOTE: Packets from Traffic Monitor FA(Internet Conn	3	e evenly transmitte	d to the wired Vireless	and wireless (devices.			
1025.39 KB/s			WAN			Th	u 02:29 pm / 454.10	KB/s
717.77 KB/s								
512.70 KB/s								
256.35 KB/s							J	V
Curren	ıt	Average	9	м	laximum		Total	
0.08 KE	l/s	17.66 KE	Vs	101	3.22 KB/s		10.35 MB	
0.04 KB	lle.	0.44 KB	-		24 KB/s		263.85 KB	

NOTE: Packets from the Internet are evenly transmitted to the wired and wireless devices.

3.11 Traffic Manager

3.11.1 Managing QoS (Quality of Service) Bandwidth

Quality of Service (QoS) allows you to set the bandwidth priority and manage network traffic.

QoS - QoS to configura	tion
	 Quality of Service (QuS) ensures bandwidth for prioritized tasks and applications. Adaptive QoS ensures inbound and outbound bandwidth on both wired and wireless connections for prioritized applications and tasks via pre-defined, drag-and-dop presests gaming, melia tearanning. ViaP web sufficy and file transfering Traditional QoS ensures inbound and outbound bandwidth on both wired and wireless connections for prioritized applications and tasks via manual user-defined parameters. Bandwidth Limiter lets you sel limits on download and upload speeds. To enable QoS function, click the QoS slide switch and fill in the upload and download. <u>QoS FAQ</u>
Enable QoS	OFF
	Арріу

To set up bandwidth priority:

- 1. From the navigation panel, go to **General** > **Traffic Manager** > **QoS**.
- 2. Click **ON** to enable QoS. Fill in the upload and download bandwidth fields.

NOTE: Get the bandwidth information from your ISP.

3. Click Save.

NOTE: The User Specify Rule List is for advanced settings. If you want to prioritize specific network applications and network services, select **User-defined QoS rules** or **User-defined Priority** from the drop-down list on the upper-right corner.

4. On the user-defined QoS rules page, there are four default online service types – web surf, HTTPS and file transfers. Select your preferred service, fill in the Source IP or MAC, Destination Port, Protocol, Transferred and Priority, then click Apply. The information will be configured in the QoS rules screen.

NOTES:

- To fill in the source IP or MAC, you can:
 - a) Enter a specific IP address, such as "192.168.122.1".
 - b) Enter IP addresses within one subnet or within the same IP pool, such as "192.168.123.*", or "192.168.*.*"
 - c) Enter all IP addresses as "*.*.*." or leave the field blank.
 - d) The format for the MAC address is six groups of two hexadecimal digits, separated by colons (:), in transmission order (e.g. 12:34:56:aa:bc:ef)
- For source or destination port range, you can either:
 - a) Enter a specific port, such as "95".
 - b) Enter ports within a range, such as "103:315", ">100", or "<65535".
- The Transferred column contains information about the upstream and downstream traffic (outgoing and incoming network traffic) for one section. In this column, you can set the network traffic limit (in KB) for a specific service to generate specific priorities for the service assigned to a specific port. For example, if two network clients, PC 1 and PC 2, are both accessing the Internet (set at port 80), but PC 1 exceeds the network traffic limit due to some downloading tasks, PC 1 will have a lower priority. If you do not want to set the traffic limit, leave it blank.

- 5. On the User-defined Priority page, you can prioritize the network applications or devices into five levels from the user-defined QoS rules' dropdown list. Based on priority level, you can use the following methods to send data packets:
 - Change the order of upstream network packets that are sent to the Internet.
 - Under **Upload Bandwidth** table, set **Minimum Reserved Bandwidth** and **Maximum Bandwidth Limit** for multiple network applications with different priority levels. The percentages indicate the upload bandwidth rates that are available for specified network applications.

NOTES:

- Low-priority packets are disregarded to ensure the transmission of high-priority packets.
- Under Download Bandwidth table, set Maximum Bandwidth Limit for multiple network applications in corresponding order. The higher priority upstream packet will cause the higher priority downstream packet.
- If there are no packets being sent from high-priority applications, the full transmission rate of the Internet connection is available for lowpriority packets.
- 6. Set the highest priority packet. To ensure a smooth online gaming experience, you can set ACK, SYN, and ICMP as the highest priority packet.

NOTE: Ensure to enable QoS first and set up the upload and download rate limits.

3.12 WAN

3.12.1 Internet Connection

The Internet Connection screen allows you to configure the settings of various WAN connection types.

WAN - Internet Connection	
	wide area network).These types are selected from the dropdown menu beside WAN pending on the connection type you selected.
Configure the Ethernet WAN settings.	
Basic Config	
WAN Connection Type	Automatic IP •
Enable WAN	O Yes ● No
Enable NAT	O Yes ● No
Enable UPnP UPnP FAQ	O Yés ● No
WAN DNS Setting	
Connect to DNS Server automatically	O Yes ● No
Account Settings	
Authentication	None •
Special Requirement from ISP	
Host Name	
MAC Address	MAC Clone
DHCP query frequency	Aggressive Mode •
Extend the TTL value	● Yes ♥ No
Spoof LAN TTL value	● Yes O No
	Арріу

To configure the WAN connection settings:

- 1. From the navigation panel, go to **Advanced Settings** > **WAN** > **Internet Connection**.
- 2. Configure the following settings below. When done, click **Apply**.
 - WAN Connection Type: Choose your Internet Service Provider type. The choices are Automatic IP, PPPOE, PPTP, L2TP or fixed IP. Consult your ISP if the router is unable to obtain a valid IP address or if you are unsure the WAN connection type.
 - Enable WAN: Select Yes to allow the router Internet access. Select No to disable Internet access.

- Enable NAT: NAT (Network Address Translation) is a system where one public IP (WAN IP) is used to provide Internet access to network clients with a private IP address in a LAN. The private IP address of each network client is saved in a NAT table and is used to route incoming data packets.
- Enable UPnP: UPnP (Universal Plug and Play) allows several devices (such as routers, televisions, stereo systems, game consoles, and cellular phone), to be controlled via an IP-based network with or without a central control through a gateway. UPnP connects PCs of all form factors, providing a seamless network for remote configuration and data transfer. Using UPnP, a new network device is discovered automatically. Once connected to the network, devices can be remotely configured to support P2P applications, interactive gaming, video conferencing, and web or proxy servers. Unlike Port forwarding, which involves manually configuring port settings, UPnP automatically configures the router to accept incoming connections and direct requests to a specific PC on the local network.
- Connect to DNS Server: Allows this router to get the DNS IP address from the ISP automatically. A DNS is a host on the Internet that translates Internet names to numeric IP addresses.
- **Authentication**: This item may be specified by some ISPs. Check with your ISP and fill them in if required.
- Host Name: This field allows you to provide a host name for your router. It is usually a special requirement from your ISP. If your ISP assigned a host name to your computer, enter the host name here.

- **MAC Address**: MAC (Media Access Control) address is a unique identifier for your networking device. Some ISPs monitor the MAC address of networking devices that connect to their service and reject any unrecognized device that attempt to connect. To avoid connection issues due to an unregistered MAC address, you can:
 - Contact your ISP and update the MAC address associated with your ISP service.
 - Clone or change the MAC address of the ASUS wireless router to match the MAC address of the previous networking device recognized by the ISP.

3.12.2 Port Trigger

Port range triggering opens a predetermined incoming port for a limited period of time whenever a client on the local area network makes an outgoing connection to a specified port. Port triggering is used in the following scenarios:

- More than one local client needs port forwarding for the same application at a different time.
- An application requires specific incoming ports that are different from the outgoing ports.

	ily open data ports whe				
wo methods for opening incoming					
he time and devices must use stati					
o the trigger port. Unlike port forwa					arding allow:
ultiple devices to share a single o	pen port and port trigge	r only allows one c	lient at a time to access	the open port.	
<u>ort Trigger FAQ</u>					
Basic Config					
Enable Port Trigger	• Yes • M	No			
Well-Known Applications					
rigger Port List (Max Limit : 32)(Ð				
	Trigger Port	Protocol	Incoming Port	Protocol	Delete
Description					
Description					

To set up Port Trigger:

- 1. From the navigation panel, go to **Advanced Settings** > **WAN** > **Port Trigger**.
- 2. Configure the following settings below. When done, click **Apply**.
 - Enable Port Trigger: Choose Yes to enable Port Trigger.
 - Well-Known Applications: Select popular games and web services to add to the Port Trigger List.
 - **Description**: Enter a short name or description for the service.
 - **Trigger Port**: Specify a trigger port to open the incoming port.

- **Protocol**: Select the protocol, TCP, or UDP.
- **Incoming Port**: Specify an incoming port to receive inbound data from the Internet.
- Protocol: Select the protocol, TCP, or UDP.

NOTES:

- When connecting to an IRC server, a client PC makes an outgoing connection using the trigger port range 66660-7000. The IRC server responds by verifying the username and creating a new connection to the client PC using an incoming port.
- If Port Trigger is disabled, the router drops the connection because it is unable to determine which PC is requesting for IRC access. When Port Trigger is enabled, the router assigns an incoming port to receive the inbound data. This incoming port closes once a specific time period has elapsed because the router is unsure when the application has been terminated.
- Port triggering only allows one client in the network to use a particular service and a specific incoming port at the same time.
- You cannot use the same application to trigger a port in more than one PC at the same time. The router will only forward the port back to the last computer to send the router a request/trigger.

3.12.3 Virtual Server/Port Forwarding

Port forwarding is a method to direct network traffic from the Internet to a specific port or a specific range of ports to a device or number of devices on your local network. Setting up Port Forwarding on your router allows PCs outside the network to access specific services provided by a PC in your network.

NOTE: When port forwarding is enabled, the ASUS router blocks unsolicited inbound traffic from the Internet and only allows replies from outbound requests from the LAN. The network client does not have access to the Internet directly, and vice versa.

WAN - Virtual S	erver / Port For	warding					
network (LAN). For a forwarding setting. F ports in router and re	a faster connection, s Please refer to the P2 edirect data through y a Port Range for cl	some P2P applical 2P application's us those ports to a si lients on the same	o connect to a specific tions (such as BilTorre er manual for details. Y ngle client on your neh network, enter the Sei	, nt), may also ′ou can open vork.	require that you so the multiple port of	et the por or a range	t eof
	rk's firewall is disable would be in conflict		is the HTTP server's po b user interface.	rt range for y	our WAN setup, the	en your ht	tp
 When you set 20:2 AX57's native FTP Virtual Server 	server.		our WAN setup, then yo	ur FTP serve	r would be in confl	ict with R	
Basic Config		_	_	_	_	_	
Enable Port Forward	ing	OF					
Port Forwarding	List (Max Limit : 6	;4)					
Service Name	External Port	Internal Port	Internal IP Address	Protocol	Source IP	Edit	Delete
			Add profile				

To set up Port Forwarding:

- From the navigation panel, go to Advanced Settings > WAN > Virtual Server / Port Forwarding.
- 2. Configure the following settings below. When done, click **Apply**.
 - **Enable Port Forwarding**: Choose **Yes** to enable Port Forwarding.
 - Famous Server List: Determine which type of service you want to access.

- **Famous Game List**: This item lists ports required for popular online games to work correctly.
- **FTP Server Port**: Avoid assigning the port range 20:21 for your FTP server as this would conflict with the router's native FTP server assignment.
- Service Name: Enter a service name.
- **Port Range**: If you want to specify a Port Range for clients on the same network, enter the Service Name, the Port Range (e.g. 10200:10300), the LAN IP address, and leave the Local Port empty. Port range accepts various formats such as Port Range (300:350), individual ports (566,789) or Mix (1015:1024,3021).

NOTES:

- When your network's firewall is disabled and you set 80 as the HTTP server's port range for your WAN setup, then your http server/web server would be in conflict with the router's web user interface.
- A network makes use of ports in order to exchange data, with each port assigned a port number and a specific task. For example, port 80 is used for HTTP. A specific port can only be used by one application or service at a time. Hence, two PCs attempting to access data through the same port at the same time would fail. For example, you cannot set up Port Forwarding for port 100 for two PCs at the same time.
 - Local IP: Key in the client's LAN IP address.

NOTE: Use a static IP address for the local client to make port forwarding work properly. Refer to section **3.8 LAN** for information.

- Local Port: Enter a specific port to receive forwarded packets. Leave this field blank if you want the incoming packets to be redirected to the specified port range.
- **Protocol**: Select the protocol. If you are unsure, select **BOTH**.

To check if Port Forwarding has been configured successfully:

- Ensure that your server or application is set up and running.
- You will need a client outside your LAN but has Internet access (referred to as "Internet client"). This client should not be connected to the ASUS router.
- On the Internet client, use the router's WAN IP to access the server. If port forwarding has been successful, you should be able to access the files or applications.

Differences between port trigger and port forwarding:

- Port triggering will work even without setting up a specific LAN IP address. Unlike port forwarding, which requires a static LAN IP address, port triggering allows dynamic port forwarding using the router. Predetermined port ranges are configured to accept incoming connections for a limited period of time. Port triggering allows multiple computers to run applications that would normally require manually forwarding the same ports to each PC on the network.
- Port triggering is more secure than port forwarding since the incoming ports are not open all the time. They are opened only when an application is making an outgoing connection through the trigger port.

3.12.4 DMZ

Virtual DMZ exposes one client to the Internet, allowing this client to receive all inbound packets directed to your Local Area Network.

Inbound traffic from the Internet is usually discarded and routed to a specific client only if port forwarding or a port trigger has been configured on the network. In a DMZ configuration, one network client receives all inbound packets.

Setting up DMZ on a network is useful when you need incoming ports open or you want to host a domain, web, or e-mail server.

CAUTION! Opening all the ports on a client to the Internet makes the network vulnerable to outside attacks. Please be aware of the security risks involved in using DMZ.

To set up DMZ:

- 1. From the navigation panel, go to **Advanced Settings** > **WAN** > **DMZ**.
- 2. Configure the setting below. When done, click **Apply**.
 - IP address of Exposed Station: Key in the client's LAN IP address that will provide the DMZ service and be exposed on the Internet. Ensure that the server client has a static IP address.

To remove DMZ:

- 1. Delete the client's LAN IP address from the **IP Address of Exposed Station** text box.
- 2. When done, click **Apply**.

3.12.5 DDNS

Setting up DDNS (Dynamic DNS) allows you to access the router from outside your network through the provided ASUS DDNS Service or another DDNS service.



To set up DDNS:

- 1. From the navigation panel, go to **Advanced Settings** > **WAN** > **DDNS**.
- 2. Configure the following settings below. When done, click **Apply**.
 - **Enable the DDNS Client**: Enable DDNS to access the ASUS router via the DNS name rather than WAN IP address.
 - Server and Host Name: Choose ASUS DDNS or other DDNS. If you want to use ASUS DDNS, fill in the Host Name in the format of xxx.asuscomm.com (xxx is your host name).
 - If you want to use a different DDNS service, click FREE TRIAL and register online first. Fill in the User Name or E-mail Address and Password or DDNS Key fields.
 - **Enable wildcard**: Enable wildcard if your DDNS service requires one.

NOTE:

DDNS service will not work under these conditions:

- When the wireless router is using a private WAN IP address (192.168.x.x, 10.x.x.x, or 172.16.x.x), as indicated by a yellow text.
- The router may be on a network that uses multiple NAT tables.

3.12.6 NAT Passthrough

NAT Passthrough allows a Virtual Private Network (VPN) connection to pass through the router to the network clients. PPTP Passthrough, L2TP Passthrough, IPsec Passthrough and RTSP Passthrough are enabled by default.

To enable / disable the NAT Passthrough settings, go to the **Advanced Settings** > **WAN** > **NAT Passthrough**. When done, click **Apply**.

hable NAT Passthrough to allow a	Virtual Private Network (VPN) connection to pass through the router to the network clients.
PTP Passthrough	Enable •
L2TP Passthrough	
IPSec Passthrough	
RTSP Passthrough	
H.323 Passthrough	
SIP Passthrough	
Enable PPPoE Relay	
	Apply

3.13 Wireless

3.13.1 General

The General tab allows you to configure the basic wireless settings.

Wireless - General	
Set up the wireless related information below	د
Enable Smart Connect	OFF
Band	2.4GHZ *
Network Name (SSID)	ASUS_2G
Hide SSID	● Yes ^O No
Wireless Mode	Auto Optimized for Xbox blg Protection
Channel bandwidth	20/40 MHz •
Control Channel	Auto Current Control Channel: 4
Extension Channel	Auto V
Authentication Method	WPA2-Personal 🔹
WPA Encryption	AES T
WPA Pre-Shared Key	12345678
Protected Management Frames	Disable 🔻
Group Key Rotation Interval	3600
	Арріу

To configure the basic wireless settings:

- 1. From the navigation panel, go to **Advanced Settings** > **Wireless** > **General**.
- 2. Select 2.4GHz or 5GHz as the frequency band for your wireless network.
- 3. Assign a unique name containing up to 32 characters for your SSID (Service Set Identifier) or network name to identify your wireless network. Wi-Fi devices can identify and connect to the wireless network via your assigned SSID. The SSIDs on the information banner are updated once new SSIDs are saved to the settings.

NOTE: You can assign unique SSIDs for the 2.4GHz and 5GHz frequency bands.

- 4. In the **Hide SSID** field, select **Yes** to prevent wireless devices from detecting your SSID. When this function is enabled, you would need to enter the SSID manually on the wireless device to access the wireless network.
- 5. Select any of these wireless mode options to determine the types of wireless devices that can connect to your wireless router:
 - Auto: Select Auto to allow 802.11AX, 802.11AC, 802.11n, 802.11g, and 802.11b devices to connect to the wireless router.
 - **Legacy**: Select **Legacy** to allow 802.11b/g/n devices to connect to the wireless router. Hardware that supports 802.11n natively, however, will only run at a maximum speed of 54Mbps.
 - **N only**: Select **N only** to maximize wireless N performance. This setting prevents 802.11g and 802.11b devices from connecting to the wireless router.
- 6. Select any of these channel bandwidth to accommodate higher transmission speeds:

40MHz: Select this bandwidth to maximize the wireless throughput.

20MHz (default): Select this bandwidth if you encounter some issues with your wireless connection.

- 7. Select the operating channel for your wireless router. Select **Auto** to allow the wireless router to automatically select the channel that has the least amount of interference.
- 8. Select any of these authentication methods:
 - Open System: This option provides no security.

- WPA/WPA2/WPA3 Personal/WPA Auto-Personal: This option provides strong security. You can use either WPA (with TKIP), WPA2 (with AES) or WPA3. If you select this option, you must use TKIP + AES encryption and enter the WPA passphrase (network key).
- WPA/WPA2/WPA3 Enterprise/WPA Auto-Enterprise: This option provides very strong security. It is with integrated EAP server or an external RADIUS back-end authentication server.

NOTE: Your wireless router supports the maximum transmission rate of 54Mbps when the **Wireless Mode** is set to **Auto** and **encryption method** is **WEP** or **TKIP**.

- 9. Select any of these WEP (Wired Equivalent Privacy) Encryption options for the data transmitted over your wireless network:
 - Off: Disables WEP encryption
 - 64-bit: Enables weak WEP encryption
 - 128-bit: Enables improved WEP encryption

10.When done, click **Apply**.

3.13.2 WPS

WPS (Wi-Fi Protected Setup) is a wireless security standard that allows you to easily connect devices to a wireless network. You can configure the WPS function via the PIN code or WPS button.

Anable WPS ON Current Frequency 2.4GHz Connection Status Idle Connection Status Idle <th></th>	
Connection Status Idle Configured Yes Reset I 2345670 U can easily connect a WPS client to the network in either of these two ways: • Method1: Click the WPS button on this interface (or press the physical WPS button on the router), then pre-	
Configured Yes Reset PP PIN Code 12345670 ou can easily connect a WPS client to the network in either of these two ways: • Method1: Click the WPS button on this interface (or press the physical WPS button on the router), then pre-	
PPIN Code 12345670 Lasses ways. Method1: Click the WPS button on this interface (or press the physical WPS button on the router), then pre-	
u can easily connect a WPS client to the network in either of these two ways: Wethod1: Click the WPS button on this interface (or press the physical WPS button on the router), then pre-	
Method1: Click the WPS button on this interface (or press the physical WPS button on the router), then pre-	
 Method2: Start the client WPS process and get the client PIN code. Enter the client's PIN code on the Client field and click Start. Please check the user manual of your wrieless client to see if it supports the WPS func- wrieless client does not support the WPS function, you have to configure the wireless client manually and s network Name (SSID), and security settings as this router. 	ient PIN code Inction. If your

NOTE: Ensure that the devices support WPS.

To enable WPS on your wireless network:

- From the navigation panel, go to Advanced Settings > Wireless > WPS.
- 2. In the Enable WPS field, move the slider to ON.
- 3. WPS uses 2.4GHz by default. If you want to change the frequency to 5GHz, turn **OFF** the WPS function, click **Switch Frequency** in the **Current Frequency** field, and turn WPS **ON** again.

NOTE: WPS supports authentication using Open System, WPA-Personal, WPA2-Personal and WPA3-Personal. WPS does not support a wireless network that uses a Shared Key, WPA-Enterprise, WPA2-Enterprise, WPA3-Enterprise and RADIUS encryption method.

- 4. In the WPS Method field, select **Push Button** or **Client PIN** code. If you select **Push Button**, go to step 5. If you select **Client PIN** code, go to step 6.
- 5. To set up WPS using the router's WPS button, follow these steps:
 - a. Click **Start** or press the WPS button found at the rear of the wireless router.
 - b. Press the WPS button on your wireless device. This is normally identified by the WPS logo.

NOTE: Check your wireless device or its user manual for the location of the WPS button.

- c. The wireless router will scan for any available WPS devices. If the wireless router does not find any WPS devices, it will switch to standby mode.
- 6. To set up WPS using the Client's PIN code, follow these steps:
 - a. Locate the WPS PIN code on your wireless device's user manual or on the device itself.
 - b.Key in the Client PIN code on the text box.
 - c. Click **Start** to put your wireless router into WPS survey mode. The router's LED indicators quickly flash three times until the WPS setup is completed.

3.13.3 WDS

Bridge or WDS (Wireless Distribution System) allows your ASUS wireless router to connect to another wireless access point exclusively, preventing other wireless devices or stations to access your ASUS wireless router. It can also be considered as a wireless repeater where your ASUS wireless router communicates with another access point and other wireless devices.

Wireless - Bridge		
Bridge (or named WDS - Wireless Distribution System) function allows your RT-AX55 to connect to an access point wirelessly. WDS may also be considered a repeater mode.		
Note:		
corresponding authentication method, plu Olick Hetts to modify Please refer to this To enable WDS to extend the wireless signal 1. Select (WDS Only) or (Hybrid) mode a 2. Ensure that this wireless router and th 3. Key in the remote AP macin the remo roouter's MAC address. 4. To get the best performance, please g	, please follow these steps : nd add MAC address of APs in Remote AP List. e AP you want to connect to use the same channel. le AP list and open the remote AP's WDS management to to Advanced Settings - Wireless - General and assig sion channel to every router in the network.	interface, key in the this
You are currently using the Auto channel	. Click Here to modify.	
Basic Config		
2.4GHz MAC		
5GHz MAC		
Band		
AP Mode	AP Only 🔻	
Connect to APs in list	🖷 Yes 🔍 No	
Remote AP List (Max Limit : 4)		
Remote AP List Add / Delete		Add / Delete
⊡		Ð
No data in table.		
Αρρίγ		

To set up the wireless bridge:

- 1. From the navigation panel, go to **Advanced Settings** > **Wireless** > **WDS**.
- 2. Select the frequency band for the wireless bridge.
- 3. In the **AP Mode** field, select any of these options:
 - AP Only: Disables the Wireless Bridge function.

- **WDS Only**: Enables the Wireless Bridge feature but prevents other wireless devices/stations from connecting to the router.
- **HYBRID**: Enables the Wireless Bridge feature and allows other wireless devices/stations to connect to the router.

NOTE: In Hybrid mode, wireless devices connected to the ASUS wireless router will only receive half the connection speed of the Access Point.

- 4. In the **Connect to APs in list** field, click **Yes** if you want to connect to an Access Point listed in the Remote AP List.
- 5. In the **Control Channel** field, select the operating channel for the wireless bridge. Select **Auto** to allow the router to automatically select the channel with the least amount of interference.

NOTE: Channel availability varies per country or region.

6. On the Remote AP List, key in a MAC address and click the **Add** button (1) to enter the MAC address of other available Access Points.

NOTE: Any Access Point added to the list should be on the same Control Channel as the ASUS wireless router.

7. Click **Apply**.

3.13.4 Wireless MAC Filter

Wireless MAC filter provides control over packets transmitted to a specified MAC (Media Access Control) address on your wireless network.

Wireless - Wireless M	AC Filter		
Wireless MAC filter allows yo	u to control pac	kets from devices with specified MAC address in your Wire	less LAN.
Basic Config			
Band			
Enable MAC Filter		O Yes ● No	
MAC Filter Mode			
MAC filter list (Max Limit	t : 64)		
Client Name (MAC Address)		Name (MAC Address)	Add / Delete
		۲	
		Apply	

To set up the Wireless MAC filter:

- 1. From the navigation panel, go to Advanced Settings > Wireless > Wireless MAC Filter.
- 2. Tick Yes in the Enable Mac Filter field.
- 3. In the MAC Filter Mode dropdown list, select either Accept or Reject.
 - Select Accept to allow devices in the MAC filter list to access to the wireless network.
 - Select **Reject** to prevent devices in the MAC filter list to access to the wireless network.
- 4. On the MAC filter list, click the **Add** 💿 button and key in the MAC address of the wireless device.
- 5. Click Apply.

3.13.5 RADIUS Setting

RADIUS (Remote Authentication Dial In User Service) Setting provides an extra layer of security when you choose WPA-Enterprise, WPA2-Enterprise, WPA3-Enterprise or Radius with 802.1x as your Authentication Mode.

Wireless - RADIUS Setting		
	arameters for authorizing wireless clients through RADIUS server. It is required while ass - General" as "WPA-Enterprise / WPA2-Enterprise".	
Band		
Server IP Address		
Server Port:		
Connection Secret		
Арріу		

To set up wireless RADIUS settings:

1. Ensure that the wireless router's authentication mode is set to WPA-Enterprise, WPA2-Enterprise, or WPA3-Enterprise.

NOTE: Please refer to section **3.13.1 General** section for configuring your wireless router's Authentication Mode.

- 2. From the navigation panel, go to **Advanced Settings** > **Wireless** > **RADIUS Setting**.
- 3. Select the frequency band.
- 4. In the **Server IP Address** field, key in your RADIUS server's IP Address.
- 5. In the **Connection Secret** field, assign the password to access your RADIUS server.
- 6. Click **Apply**.

3.13.6 Professional

The Professional screen provides advanced configuration options.

NOTE: We recommend that you use the default values on this page.

Vireless - Professional	
Wireless Professional Setting allows you to	set up additional parameters for wireless. But default values are recommended.
* Reminder: The System time zone is different	
Band	
Enable Radio	O Yes ● No
Enable wireless scheduler	● Yes O No
Set AP Isolated	● Yes O No
Roaming assistant	Enable Disconnect clients with RSSI lower than -55 dBm
Bluetooth Coexistence	
Enable IGMP Snooping	
Multicast Rate(Mbps)	
Preamble Type	
AMPDU RTS	
RTS Threshold	
DTIM Interval	
Beacon Interval	
Enable TX Bursting	
Enable WMM	
Enable WMM No-Acknowledgement	
Enable WMM APSD	
Modulation Scheme	Up to MCS 11 (NitroQAM/1024-QAM) •
Airtime Fairness	
Multi-User MIMO	
Explicit Beamforming	
Universal Beamforming	
	Apply

In the **Professional Settings** screen, you can configure the followings:

- **Band**: Select the frequency band that the professional settings will be applied to.
- Enable Radio: Select Yes to enable wireless networking. Select No to disable wireless networking.

• Enable wireless scheduler: You can choose clock format as 24-hour or 12-hour. The color in the table indicates Allow or Deny. Click each frame to change the settings of the hour of the weekdays and click **OK** when done.



- Set AP isolated: The Set AP isolated item prevents wireless devices on your network from communicating with each other. This feature is useful if many guests frequently join or leave your network. Select **Yes** to enable this feature or select **No** to disable.
- **Multicast rate (Mbps)**: Select the multicast transmission rate or click **Disable** to switch off simultaneous single transmission.
- **Preamble Type**: Preamble Type defines the length of time that the router spent for CRC (Cyclic Redundancy Check). CRC is a method of detecting errors during data transmission. Select **Short** for a busy wireless network with high network traffic. Select **Long** if your wireless network is composed of older or legacy wireless devices.
- **RTS Threshold**: Select a lower value for RTS (Request to Send) Threshold to improve wireless communication in a busy or noisy wireless network with high network traffic and numerous wireless devices.
- **DTIM Interval**: DTIM (Delivery Traffic Indication Message) Interval or Data Beacon Rate is the time interval before a signal is sent to a wireless device in sleep mode indicating that a data packet is awaiting delivery. The default value is

three milliseconds.

- **Beacon Interval**: Beacon Interval is the time between one DTIM and the next. The default value is 100 milliseconds. Lower the Beacon Interval value for an unstable wireless connection or for roaming devices.
- **Enable TX Bursting**: Enable TX Bursting improves transmission speed between the wireless router and 802.11g devices.
- **Enable WMM APSD**: Enable WMM APSD (Wi-Fi Multimedia Automatic Power Save Delivery) to improve power management between wireless devices. Select **Disable** to switch off WMM APSD.

4 Utilities

NOTES:

- Download and install the wireless router's utilities from the ASUS website:
 - Device Discovery v1.4.7.1 at <u>http://dlcdnet.asus.com/pub/ASUS/ LiveUpdate/Release/Wireless/Discovery.zip</u>
 - Firmware Restoration v1.9.0.4 at <u>http://dlcdnet.asus.com/pub/</u> <u>ASUS/LiveUpdate/Release/Wireless/Rescue.zip</u>
- The utilities are not supported on MAC OS.

4.1 Device Discovery

Device Discovery is an ASUS WLAN utility that detects an ASUS wireless router device, and allows you to configure the wireless networking settings.

To launch the Device Discovery utility:

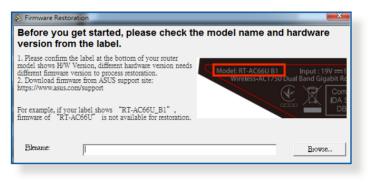
From your computer's desktop, click
 Start > All Programs > ASUS Utility > Wireless Router > Device Discovery.



NOTE: When you set the router to Access Point mode, you need to use Device Discovery to get the router's IP address.

4.2 Firmware Restoration

Firmware Restoration is used on an ASUS Wireless Router that failed during its firmware upgrading process. It uploads the firmware that you specify. The process takes about three to four minutes.



IMPORTANT! Launch the rescue mode on the router before using the Firmware Restoration utility.

NOTE: This feature is not supported on MAC OS.

To launch the rescue mode and use the Firmware Restoration utility:

- 1. Unplug the wireless router from the power source.
- 2. Hold the Reset button at the rear panel and simultaneously replug the wireless router into the power source. Release the Reset button when the Power LED at the front panel flashes slowly, which indicates that the wireless router is in the rescue mode.
- 3. Set a static IP on your computer and use the following to set up your TCP/IP settings:

IP address: 192.168.1.x

Subnet mask: 255.255.255.0

- From your computer's desktop, click
 Start > All Programs > ASUS Utility > Wireless Router > Firmware Restoration.
- 5. Specify a firmware file, then click **Upload**.

NOTE: This is not a firmware upgrade utility and cannot be used on a working ASUS Wireless Router. Normal firmware upgrades must be done through the web interface. Refer to **Chapter 3: Configuring the General and Advanced Settings** for more details.

5 Troubleshooting

This chapter provides solutions for issues you may encounter with your router. If you encounter problems that are not mentioned in this chapter, visit the ASUS support site at:

<u>https://www.asus.com/support/</u> for more product information and contact details of ASUS Technical Support.

5.1 Basic Troubleshooting

If you are having problems with your router, try these basic steps in this section before looking for further solutions.

Upgrade Firmware to the latest version.

 Launch the Web GUI. Go to Advanced Settings > Administration > Firmware Upgrade. Click Check to verify if the latest firmware is available.



- 2. If the latest firmware is available, visit the ASUS global website at <u>https://www.asus.com/Networking/RT-AX57/HelpDesk/</u> to download the latest firmware.
- 3. From the **Firmware Upgrade** page, click **Browse** to locate the firmware file.
- 4. Click **Upload** to upgrade the firmware.

Restart your network in the following sequence:

- 1. Turn off the modem.
- 2. Unplug the modem.
- 3. Turn off the router and computers.
- 4. Plug in the modem.
- 5. Turn on the modem and then wait for 2 minutes.
- 6. Turn on the router and then wait for 2 minutes.
- 7. Turn on computers.

Check if your Ethernet cables are plugged properly.

- When the Ethernet cable connecting the router with the modem is plugged in properly, the WAN LED will be on.
- When the Ethernet cable connecting your poweredon computer with the router is plugged in properly, the corresponding LAN LED will be on.

Check if the wireless setting on your computer matches that of your router.

• When you connect your computer to the router wirelessly, ensure that the SSID (wireless network name), encryption method, and password are correct.

Check if your network settings are correct.

Each client on the network should have a valid IP address. ASUS
recommends that you use the wireless router's DHCP server to
assign IP addresses to computers on your network.

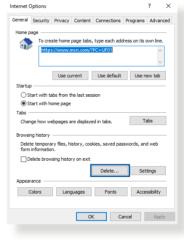
 Some cable modem service providers require you to use the MAC address of the computer initially registered on the account. You can view the MAC address in the web GUI, Network Map > Clients page, and hover the mouse pointer over your device in Client Status.

Internet status: Connected WM IP: 192.168.66.8 DDNS: <u>CO</u>	Client status Online Wired (1) 31esting: PC 192.168.50.129 (000.000.000.000.000
Security level: WPA2-Personal	Refresh
Clients: 1 View List	
AlMesh Node: 0	

5.2 Frequently Asked Questions (FAQs)

I cannot access the router GUI using a web browser

- If your computer is wired, check the Ethernet cable connection and LED status as described in the previous section.
- Ensure that you are using the correct login information. Ensure that the Caps Lock key is disabled when you enter the login information.
- Delete the cookies and files in your web browser. For Internet
 Explorer, follow these steps:
 - Launch Internet Explorer, then click Tools > Internet Options.
 - 2. In the General tab, under Browsing history, click Delete..., select Temporary Internet files and website files and Cookies and website data then click Delete.



NOTES:

- The commands for deleting cookies and files vary with web browsers.
- Disable proxy server settings, cancel the dial-up connection, and set the TCP/IP settings to obtain IP addresses automatically. For more details, refer to Chapter 1 of this user manual.
- Ensure that you use CAT5e or CAT6 ethernet cables.

The client cannot establish a wireless connection with the router.

NOTE: If you are having issues connecting to 5GHz network, make sure that your wireless device supports 5GHz or features dual band capabilities.

- Out of Range:
 - Move the router closer to the wireless client.
 - Try to adjust antennas of the router to the best direction as described in section **1.4 Positioning your router**.
- DHCP server has been disabled:
 - Launch the web GUI. Go to General > Network Map> Clients and search for the device that you want to connect to the router.
 - If you cannot find the device in the Network Map, go to Advanced Settings > LAN > DHCP Server, Basic Config list, select Yes on the Enable the DHCP Server.

LAN - DHCP Server			
DHCP (Dynamic Host Configuration Protocol) server can assign each client an IP address a 253 IP addresses for your local network. Manually Assigned IP around the Dr	ind informs the client of the of D		
Basic Config			
Enable the DHCP Server	O Yes O No		
Domain Name			
IP Pool Starting Address	192.168.50.2		
IP Pool Ending Address	192.168.50.254		
Lease time	86400		
Default Gateway			
DNS and WINS Server Setting			_
DNS Server			
WINS Server			
Manual Assignment			
Enable Manual Assignment	● Yes O No		
Manually Assigned IP around the DHCP	list (Max Limit : 64)		
Client Name (MAC Ad	kdress)	IP Address	Add / Delete
	-		Ð
	Apply		

 SSID has been hidden. If your device can find SSIDs from other routers but cannot find your router's SSID, go to Advanced Settings > Wireless > General, select No on Hide SSID, and select Auto on Control Channel.

Wireless - General	
Set up the wireless related information below	
Enable Smart Connect	OFF
Band	2.4GHz •
Network Name (SSID)	ASUS_2G
Hide SSID	● Yes O No
Wireless Mode	Auto
Channel bandwidth	20/40 MHz •
Control Channel	Auto Current Control Channel: 4
Extension Channel	Auto V
Authentication Method	WPA2-Personal •
WPA Encryption	AES ¥
WPA Pre-Shared Key	12345678
Protected Management Frames	Disable 🔻
Group Key Rotation Interval	3600
	Apply

- If you are using a wireless LAN adapter, check if the wireless channel in use conforms to the channels available in your country/area. If not, adjust the channel, channel bandwidth, and wireless mode.
- If you still cannot connect to the router wirelessly, you can reset your router to factory default settings. In the router GUI,click Administration > Restore/Save/Upload Setting and click Restore.

Administration - Restore/Save/Up	load Setting
This function allows you to save current setti	ings to a file, or load settings from a file.
Factory default	Restore Initialize
Save setting	Save
Restore setting	Upload 选择檔案 未選擇任何檔案

Internet is not accessible.

- Check if your router can connect to your ISP's WAN IP address. To do this, launch the web GUI and go to General> Network Map, and check the Internet status.
- If your router cannot connect to your ISP's WAN IP address, try restarting your network as described in the section **Restart your network in following sequence** under **Basic Troubleshooting**.



 The device has been blocked via the Parental Control function. Go to General > AiProtection > Parental Control and see if the device is in the list. If the device is listed under Client Name, remove the device using the Delete button or adjust the Time Management Settings.



- If there is still no Internet access, try to reboot your computer and verify the network's IP address and gateway address.
- Check the status indicators on the ADSL modem and the wireless router. If the WAN LED on the wireless router is not ON, check if all cables are plugged properly.

You forgot the SSID (network name) or network password

- Setup a new SSID and encryption key via a wired connection (Ethernet cable). Launch the web GUI, go to **Network Map**, click the router icon, enter a new SSID and encryption key, and then click **Apply**.
- Reset your router to the default settings. Launch the web GUI, go to Administration > Restore/Save/Upload Setting, and click Restore.

How to restore the system to its default settings?

 Go to Administration > Restore/Save/Upload Setting, and click Restore.

The following are the factory default settings:

Enable DHCP:	Yes (if WAN cable is plugged in)
IP address:	192.168.50.1
Domain Name:	(Blank)
Subnet Mask:	255.255.255.0
DNS Server 1:	router.asus.com
DNS Server 2:	(Blank)
SSID (2.4GHz):	ASUS
SSID (5GHz):	ASUS_5G

Firmware upgrade failed.

Launch the rescue mode and run the Firmware Restoration utility. Refer to section **4.2 Firmware Restoration** on how to use the Firmware Restoration utility.

Cannot access Web GUI

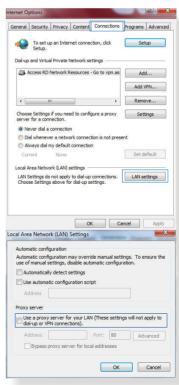
Before configuring your wireless router, do the steps described in this section for your host computer and network clients.

A. Disable the proxy server, if enabled.

Windows®

- 1. Click **Start > Internet Explorer** to launch the browser.
- 2. Click Tools > Internet options > Connections > LAN settings.

- 3. From the Local Area Network (LAN) Settings screen, untick Use a proxy server for your LAN.
- 4. Click OK when done.



MAC OS

- From your Safari browser, click Safari
 Preferences > Advanced > Change Settings...
- From the Network screen, deselect FTP Proxy and Web Proxy (HTTP).
- 3. Click **Apply Now** when done.

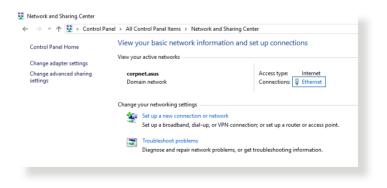
	Location: Automati		•
	TCP/IP PPPoE App	leTalk Proxies Et	hernet
	y server to configure:	FTP Proxy Server	
FTP Prox	y ky (HTTP)		:
	/eb Proxy (HTTPS)	Proxy server	requires password
	g Proxy (RTSP)	Set Pa	ssword)
Gopher I		A T	
Bypass proxy these Hosts a		_	

NOTE: Refer to your browser's help feature for details on disabling the proxy server.

B. Set the TCP/IP settings to automatically obtain an IP address.

Windows®

 Click Start > Control Panel > Network and Sharing Center, then click the network connection to display its status window.



- 2. Click **Properties** to display the Ethernet Properties window.
- Ethernet Status × General Connection IPv4 Connectivity: Internet IPv6 Connectivity: No network access Media State: Enabled Duration: 03:29:31 1.0 Gbps Speed: Details... Activity Sent -Received Bytes: 71,424,646 70,727,241 Disable Diagnose Properties

Ethernet Properties

Connect using:

Networking Authentication

Intel(R) Ethemet Connection (2) I219-V

This connection uses the following items:

Configure...

^

3. Select Internet Protocol Version 4 (TCP/IPv4) or Internet Protocol Version 6 (TCP/IPv6), then click Properties.

4. To obtain the IPv4 IP settings automatically, tick **Obtain an IP** address automatically.

To obtain the IPv6 IP settings automatically, tick **Obtain an IPv6 address automatically**.

5. Click **OK** when done.

Internet Protocol Version 4				
🔲 🔔 Microsoft Network Adapte	r Multiplexor Pro	otocol		
Microsoft LLDP Protocol E	niver			
Internet Protocol Version 6	(TCP/IPv6)			
Link-Layer Topology Disco	very Responde	er		
Link-Laver Topology Disco	verv Mapper I/	O Drive	er 🗸	
<			>	
Install Unins	tall	Prope	erties	
Description				
Transmission Control Protocol/In	amot Protocol	The de	af an ab	
wide area network protocol that				
across diverse interconnected n				
Internet Protocol Version 4 (TCP/IPv4) Properties			×
Conneral attained on the state				
General Alternate Configuration	matically if your	nativor	k europarte	
General Alternate Configuration You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	o ask your netw			
You can get IP settings assigned auto this capability. Otherwise, you need to for the appropriate IP settings.	o ask your netw			
You can get IP settings assigned autor this capability. Otherwise, you need I for the appropriate IP settings.	o ask your netw			
You can get IP settings assigned aut this capability. Otherwise, you need to for the appropriate IP settings. Obtain an IP address automatical	o ask your netw			
You can get IP settings assigned autor this capability. Otherwise, you need I for the appropriate IP settings.	o ask your netw			
You can get IP settings assigned auto this capability. Otherwise, you need for the appropriate IP settings.	o ask your netw			
You can get IP settings assigned auth this capability. Otherwise, you need if for the appropriate IP settings. (Obtain an IP address automatical Ouse the following IP address: IP address: P address: P address: P address addres	o ask your netw			
You can get IP settings assigned auto this capability. Otherwise, you need for the appropriate IP setting: Other in P address automatic Use the following IP address: IP address: Subnet mask: Default gateway:	o ask your netw			
You can get IP settings assigned auto this capability. Otherwise, you need for the appropriate IP settings. (a) Obtain an IP address automatic O Use the following IP address: - IIP address: Submet mask: Default gateway: (a) Obtain DNS server address auto	o ask your netw			
You can get IP settings assigned auto this capability. Otherwise, you need for the appropriate IP setting.	o ask your netw			
You can get IP settings assigned auto this capability. Otherwise, you need for the appropriate IP settings. (a) Obtain an IP address automatic O Use the following IP address: - IIP address: Submet mask: Default gateway: (a) Obtain DNS server address auto	o ask your netw			
You can get IP settings assigned auti this capability. Otherwise, you need for the appropriate IP settings. (a) Other her following IP address: IP address: Subnet mask: Default gateway: (a) Other the following DKS server address auto (b) Use the following DKS server address auto	o ask your netw			
You can get IP settings assigned auti this capability. Otherwise, you need for the approximate IP settings. (C) Use the following IP address: IP address: Subnet mask: Default getwingy: (C) Use the following DNS server address auto	o ask your netw			
You can get IP settings assigned auti this capability. Otherwise, you need for the appropriate IP settings. (a) Other her following IP address: IP address: Subnet mask: Default gateway: (a) Other the following DKS server address auto (b) Use the following DKS server address auto	o ask your netw			
You can get IP settings assigned auti this capability. Otherwise, you need for the appropriate IP settings. (a) Other her following IP address: IP address: Subnet mask: Default gateway: (a) Other the following DKS server address auto (b) Use the following DKS server address auto	o ask your netw	· · · · · · · · · · · · · · · · · · ·		
You can get IP settings assigned auto this capability. Otherwise, you need for the appropriate IP settings. (o ask your netw	· · · · · · · · · · · · · · · · · · ·		
You can get IP settings assigned auto this capability. Otherwise, you need for the appropriate IP settings. (o ask your netw	· · · · · · · · · · · · · · · · · · ·		

MAC OS

- Click the Apple icon located on the top left of your screen.
- Click System
 Preferences > Network
 > Configure...
- 3. From the **TCP/IP** tab, select **Using DHCP** in the **Configure IPv4** dropdown list.
- 4. Click **Apply Now** when done.

	Location: Automatic	;	
	Show: Built-in Ethernet	\$	
ТС	P/IP PPPoE AppleTalk Prox	ies Ethernet	
Configure IPv4	4: Using DHCP	•	
IP Addres	s: 192.168.182.103	Renew D	HCP Lease
Subnet Masl	k: 255.255.255.0 DHCP Cli		
Route	r: 192.168.182.250	(If require	:d)
DNS Server	s: 192.168.128.10		(Optional)
Search Domain	s:		(Optional)
IPv6 Addres	s: fe80:0000:0000:0000:0211:24f	f:fe32:b18e	
	Configure IPv6		(?

NOTE: Refer to your operating system's help and support feature for details on configuring your computer's TCP/IP settings.

C. Disable the dial-up connection, if enabled.

Windows®

- 1. Click **Start** > **Internet Explorer** to launch the browser.
- 2. Click Tools > Internet options > Connections .
- 3. Tick Never dial a connection.
- 4. Click OK when done.

Nial-up	Setup.	up an Interne Jal Private Ne				Setup	
31	Access RD	Network Res	sources	- Go to vpn.a:		Add	
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-		a connection		tion is not ora	cont		
OD	al whenev	Address Martha		tion is not pre	sent		
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© Di © Al Cur Local A	al whenev ways dial rent wea Netw Settings d	ver a network my default o None	onnectio ttings — o dial-up	n connections.		Set default	

NOTE: Refer to your browser's help feature for details on disabling the dial-up connection.

Appendices

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Version 2, June 1991

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When using this product, always follow the fundamental safety precautions, including, but not limited to the following:



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- The power supply cord(s) must be plugged into socket-outlet(s) that is /are provided with a suitable earth ground. Connect the equipment only to a nearby socket outlet that is easily accessible.
- If the Adapter is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.
- DO NOT use damaged power cords, accessories, or other peripherals.
- DO NOT mount this equipment higher than 2 meters.
- Use this product in environments with ambient temperatures between 0°C (32°F) and 40°C (104°F).
- Read the operational guidelines and the temperature range provided before using the product.
- Pay particular attention to the personal safety when using this device in airports, hospitals, gas stations and professional garages.
- Medical device interference: Maintain a minimum distance of at least 15 cm (6 inches) between implanted medical devices and ASUS products to reduce the risk of interference.
- Kindly use ASUS products in good reception conditions to minimize the radiation's level.
- Keep the device away from pregnant women and the lower abdomen of the teenager.
- DO NOT use this product if visible defects can be observed or it has been wet or damaged or modified. Seek servicing for assistance.



WARNING!

- DO NOT place on uneven or unstable work surfaces.
- DO NOT place or drop objects on the top of the product. Avoid exposing the product to mechanical shock such as crushing, bending, puncturing or shredding.
- DO NOT disassemble, open, microwave, incinerate, paint, or shove any foreign objects into this product.
- Refer to the rating label on the bottom of your product and ensure your power adapter complies with this rating.
- Keep the product away from fire and heat sources.
- DO NOT expose to or use near liquids, rain, or moisture. DO NOT use the product during electrical storms.
- Connect the PoE output circuits of this product exclusively to PoE networks, without routing to external facilities.
- To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.
- Only use accessories that have been approved by the device manufacturer to work with this model. The use of other types of accessories may invalidate the warranty or violate local regulations and laws, and may pose safety risks. Contact your local retailer for the availablity of authorized accessories.
- Use of this product in a way not recommended in the provided instructions may result in a risk of fire or personal injury.

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