User Guide



Wireless-N800 High Power Router





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1 Getting to know your wireless router

1.1 Welcome!

Thank you for purchasing an ASUS RT-N800HP Wireless Router!

1.2 Package contents

- ☑ RT-N800HP Wireless Router ☑ AC 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 the ASUS Support Hotline list at the back of this user manual.
- Keep the original packaging material in case you need future warranty services such as repairs or replacement.

1.3 Your wireless router 0 Power LED A Off: No power. On: Device is ready. 2.4GHz LED 2 Off: No 2.4GHz signal. On: Wireless system is ready. WAN (Internet) LED 3 Off: No power or no physical connection. On: Has physical connection to a wide area network (WAN). LAN 1 ~ 4 LED 4 Off: No power or no physical connection. On: Has physical connection to a local area network (LAN). 5 **Reset button** Restores the system to its factory default settings Power button 6 Press this button to power on or off the system. Power (DC-IN) port 7 Insert the bundled AC adapter into this port and connect your router to a power source. Lan 1 ~ 4 ports 8 Connect a network cable into one of these cables to establish a LAN connection



WAN (Internet) port

Connect a network cable into one of these cables to establish a WAN connection



WPS button

This button launches the WPS wizard

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 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.
- To ensure the best wireless signal, orient the four detachable antennas as shown in the drawing below.



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 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 WLAN adapter to your computer
 to connect to the network.
- The Ethernet RJ-45 cables that will be used to connect the network devices should not exceed 100 meters.

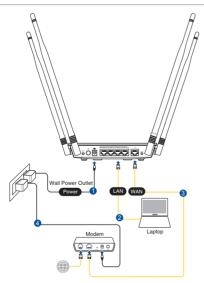
1.6 Router Setup

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 following:
 - 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).

1.6.1 Wired connection

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



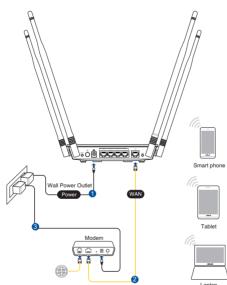
To set up your wireless router via wired connection:

1. Insert your wireless router's AC adapter to the DC-IN 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 DC-IN port and plug it to a power outlet.



1.6.2 Wireless connection

To set up your wireless router via wireless connection:

- 1. Insert your wireless router's AC adapter to the DC-IN 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 DC-IN port and plug it to a power outlet.
- 4. Install an IEEE 802.11a/b/g/n WLAN adapter on your computer.

NOTES:

- For details on connecting to a wireless network, refer to the WLAN adapter's user manual.
- To set up the security settings for your network, refer to the section Setting up the wireless security settings in Chapter 3 of this user manual.

2 Getting started

2.1 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://router.asus.com</u>.
- 2. Set up a password for your router to prevent unauthorized access.



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.

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:

1. Log into the Web GUI. The QIS page launches automatically.



NOTE: The wireless router's login username and password are different from the 2.4GHz 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 network name (SSID) and security key allows Wi-Fi devices to log in and connect to your 2.4GHz network.

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.

🕵 Skip Setup Wizard	Please select the Internet connection type that your IS	P provided.
Quick Internet Setup Check Connection Check Connection Returnet Setup Check Setup	Dons your internet connection require user name and password? • Yes My internet connection type is PPPoE, L2TP or PPTP • No	Connection Somaro 1
	My Internet connection type is Automatic IP (Cable modern, Dynamic IP, DHCP) or Static IP Next	Consector Scalare 2
	* If you do not know the Internet connection type, please co	ntact your ISP.

for Automatic IP (DHCP)

for PPPoE, PPTP and L2TP

/15US		English 🔻
Skip Setup Wizard	Account Settings	
Quick Internet Setup		
Check Connection		Internet Connection Information
2 Internet Setup	Please enter your username and password.	Enter the account name and password or water
Router Setup	Usemame 📀	Account Name ++++++++++++++++++++++++++++++++++++
	Password 🔹	Hanners 2
	Show password	Vsername 2
	Previous Next	
		Enter the user name and password for your Internet connection information These settings were given by your Internet Service Provider (ISP).

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 Skip to manual setting and manually configure your connection settings.
- 3. Assign the wireless network name (SSID) and security key for your wireless connection. Click **Apply** when done.



- 4. Your Internet and wireless settings are displayed. Click **Next** to continue.
- 5. Read the wireless network connection tutorial. When done, click **Finish**.

Internet Setup	System Time: Mon, Dec 25 17: WAN	09:50 2017 (GMT+08:00)
ck Connection	WAN Connection Type	Automatic IP
ck connection	WAN IP	
rnet Setup		
met setup	Network Name (SSID)	cocktailtoday
ter Setup	Network Key	asus2017
ter Setup	Wireless Security	WPA2-Personal - AES
	LAN IP	192.168.1.1
	MAC address	B0:6E:BF:A4:A4:44
		Complete

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:

- 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 settings

3.1 Using the Network Map

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



3.1.1 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.

2.4GHz security settings



- 3. On the **Wireless name (SSID)** field, key in a unique name for your wireless network.
- 4. From the **Authentication Method** dropdown list, select the authentication method for your wireless network.

If you select WPA-Personal or WPA-2 Personal as the authentication method, key in the WPA-PSK key or security passkey.

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

5 Click **Apply** when done.



3.1.2 Managing your network clients

To manage your network clients:

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

3.2 Creating a 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: The router supports up to three SSIDs.

To create a guest network:

- 1. From the navigation panel, go to **General** > **Guest Network**.
- 2. Click Enable.

Guest Network			
	The Guest Network provides your local network.	Internet connection for guests but	restricts access to
Network Name (SS	ID)		
Authentication			
Method			
Network Key	Enable	Enable	Enable
Time Remaining			
Access intranet			

- 4. Assign a wireless name for your temporary network on the Network Name (SSID) field.
- 5. Select an Authentication Method.

Guest Network			
	The Guest Network provides Int Your local network.	ernet connection for guests but n	estricts access to
Network Name (SSIE	l) Guest1		
Authentication Method	WPA2-Personal		
Network Key	00000000	Enable	Enable
Time Remaining	2 hours 0 minute(s)		
	Remove		

- 6. If you select a WPA authentication method, select a WPA Encryption.
- 7. Specify the Access time or choose Limitless.
- 8. Select **Disable** or **Enable** on the Access Intranet item.
- 9. When done, click **Apply**.
- 10. To change a guest's settings, click the guest settings you want to modify. Click **Remove** to delete the guest's settings.

3.3 Traffic Manager

3.3.1 Manage QoS (Quality of Service) Bandwidth

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

Traffic Manager - QoS	
	 Quality of Service (QoS) ensures bandwidth for prioritized tasks and applications. 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 helps you to control download and upload max speed of your client devices. 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** tab.
- 2. Click **ON** to enable QoS. Fill in the upload and download bandwidth fields.

NOTE: Get the bandwidth information from your ISP.

3. Click **Apply**.

3.3.2 Traffic Monitor

The traffic monitor function allows you to access the bandwidth usage and speed of your Internet, wired, and wireless networks. It allows you to monitor network traffic even on a daily basis.

	er - Traffic Monitor				Real-time
raffic Monitor a	Illows you to monitor t	he incoming (or outgoing packets	of the follow	wing:
	Internet	Wired		Wireless	
Reception			g packets from etwork		oackets from etwork
Transmission		Outgoin network			
OTE: Packets	from the Internet are	evenly transm	itted to the wired a	nd wireless	devices.
raffic Monitor	FAQ				
Vired Wi 73.24 KB/s	reless (2.4GHz)			_	
51.27 KB/s					
51.27 KB/s					
51.27 KB/s					
51.27 KB/s 36.62 KB/s			1		
			1		
36.62 KB/s					
36.62 KB/s					
36.62 KB/s				Tue 03:19	1 pm / 54.41 KB/s
36.62 KB/s	t Ave	rage	Maximum	Tue 03:19	1 pm / 54.41 KB/s Total
36.62 KB/s 18.31 KB/s		rage KB/s	Maximum 7.36 KB/s	Tue 03:19	

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

3.4 Set up Parental Controls

Parental Controls allow you to control the Internet access time. Users can set the time limit for a client's network usage.

Parental Controls	
	Parental Controls allow you to set the time limit for a client's network usage. To use Parental Controls:
	 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 [Add / Delete] column, click the plus(+) icon to add the client. In the [Time Management] column, click the edit icon to edit the Active Schedule. Select the desired time slots for allowed access times. Drag and hold to create longer time slots. Click (DK) to save the settings made.
	Note: 1. Clients that are added to Parental Controls will have their internet access restricted by default. 2. Please disable <u>NAT Acceleration</u> for more precise scheduling control.
Enable Parental Controls	OFF

To use the parental control function:

- 1. From the navigation panel, go to **General** > **Parental Controls**.
- 2. Click **ON** to enable Parental Controls.
- 3. Select the client whose network usage you want to control. You may also key in the client's MAC address.

NOTE: Ensure that the client name does not contain special characters or spaces as this may cause the router to function abnormally.

- 4. You can add or delete the client's profile.
- 5. Set up the allowed time limit in **Time Management** map.
- 6. Click **Apply** to save the settings.

4 Configure Advanced Settings

4.1 Wireless

4.1.1 General

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

et up the wireless related information	tion below.
Network Name (SSID)	ASUS_FC_Guest
Hide SSID	• Yes • No
Wireless Mode	Auto 🔻 🖬 b/g Protection
Channel bandwidth	20/40 MHz ▼
Control Channel	
Extension Channel	
Authentication Method	Open System 🔹

To configure basic wireless settings:

- 1. From the navigation panel, go to **Advanced Settings** > **Wireless** > **General** tab.
- 2. 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.

- 3. 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.
- 4. 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 802.11n, 802.11g, and 802.11b devices to connect to the wireless router.
 - **Nonly**: Select **Nonly** to maximize wireless N performance. This setting prevents 802.11g and 802.11b devices from connecting 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.
- 5. Select any of these channel bandwidth to accommodate higher transmission speeds:

20/40MHz (default): Select this bandwidth to automatically select the best bandwidth for your wireless environment.

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

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

- 6. 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.
- 7. If 20/40MHz, 20MHz or 40MHz is selected, you can define an upper or lower adjacent channel in the Extension Channel field to be accommodated.
- 8. Select any of these authentication methods:
 - **Open System**: This option provides no security.

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

4.1.2 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.

NOTE: Ensure that the devices support WPS.

Wireless - WPS	
WPS (Wi-Fi Protected Setup) provides easy a the PIN code or the WPS buttton.	and secure establishment of a wireless network. You can configure WPS here via
Enable WPS	
Connection Status	Ide
Configured	Yes Reset
AP PIN Code	12345670
You can easily connect a WPS client to the n	etwork in either of these two ways:
	s interface (or press the physical WPS button on the router), then press the WPS ind wait for about three minutes to make the connection.
	s and get the client PIN code. Enter the client's PIN code on the Client PIN code
	user manual of your wireless client to see if it supports the WPS function. If your IPS function, you have to configure the wireless client manually and set the same titings as this router.
WPS Method:	Push button Client FIN Code Start

To enable WPS on your wireless network:

- 1. From the navigation panel, go to **Advanced Settings** > **Wireless** > **WPS** tab.
- 2. In the **Enable WPS** field, move the slider to **ON**.

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

- In the WPS Method field, select Push button or Client PIN Code. If you select Push button, go to step 4. If you select Client PIN Code, go to step 5.
- 4. 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.
- 5. 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.

4.1.3 Bridge

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.

/ISUS	Logout	Reboot			English 🔻		
Quick Internet	Operation Mode: Wireless	router Firmware Ve	rsion: SSID: ASUS	2G ASUS_SG	L App 🔏 🚡 🔶		
General	General WPS WDS	Wireless MAC Filter	RADIUS Setting	Professional			
Retwork Map	Wireless - Bridge						
Guest Network	Bridge (or named WDS - Wireless Distribution System) function allows your to connect to an access point wirelessly. WDS may						
	also be considered a repeater mode. But with this method, the devices connected to the access point will only be able to use half of the access point's original wireless speed.						
AiProtection	Note The function only support [Open System/NONE, Open System/WEP] security authentication method.						
Adaptive QoS	To enable WDS to extend the wireless signal, please follow these steps :						
Marchael Traffic Analyzer	Select [WDS Only] or [Hybrid] mode and add MAC address of APs in Remote AP List. Ensure that this wireless router and the AP you want to connect to use the same channel.						
Fight Game Boost	 Key in the rende AP mac in the rende AP list and open the nende APs WDS management interface, key in the this router's MAC address. To get the beap forformance, please go to Advanced Settings > Wireless > General and assign the same channel bandwidth, control channel, and extension channel to every router in the network. 						
USB Application							
AiCloud 2.0	You are currently using the Auto channel bandwidth. Click <u>Henre</u> to modify.						
	Basic Config	You are currently using the Auto channel. Click <u>Here</u> to modify. Basic Config					
Advanced Settings	2.4GHz MAC						
😴 Wireless	5GHz MAC						
	Band						
🜐 wan	AP Mode						
1Pv6	Connect to APs in list	• `	tes [©] No				
VPN	Remote AP List (Max Limit : 4)						
~		Remote	AP List		Add / Delete		
V Firewall			*		Ð		
Administration	No data in table.						
System Log	Apply						
Network Tools							
	Help & Support Manual	Itility Feedback	Product Registration	FAQ	م		
	- Help & support - Manual				uter Inc. All rights reserved.		
				2017 Radatek Comp	rter met wir ngints reserved.		

To set up the wireless bridge:

- From the navigation panel, go to Advanced Settings > Wireless > WDS tab.
- 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. By default, the operating/control channel for the wireless bridge is set to **Auto** to allow the router to automatically select the channel with the least amount of interference.

You can modify the **Control Channel** from **Advanced Settings** > **Wireless** > **General** tab.

NOTE: Channel availability varies per country or region.

 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**.

4.1.4 Wireless MAC Filter

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

ackets from devices with specified MAC address in your Wi	reless LAN.					
O Yes ● No						
Accept •						
Client Name (MAC address)						
No data in table.						
Apply						
	• Yes • No Accept • tName (MAC address) D:BS:B0:FC No data in table.					

To set up the Wireless MAC filter:

- 1. From the navigation panel, go to **Advanced Settings** > **Wireless** > **Wireless MAC Filter** tab.
- 2. 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.
- 3. On the MAC filter list, key in the MAC address of the wireless device to add one.
- 4. Click **Apply**.

4.1.5 RADIUS Setting

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



To set up wireless RADIUS settings:

1. Ensure that the wireless router's authentication mode is set to WPA-Enterprise, WPA2-Enterprise, or Radius with 802.1x.

NOTE: Please refer to section **4.1.1 General** section for configuring your wireless router's Authentication Mode.

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

4.1.6 Professional

The Professional screen provides advanced configuration options.

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

Wireless - Professional				
Wireless Professional Setting allows you to set up additional parameters for wireless. But default values are recommended.				
* Reminder: The system time has not been	synchronized with an NTP server.			
Enable Radio	O Yes ● No			
Enable wireless scheduler	● Yes © No			
Set AP Isolated	● Yes © No			
Roaming assistant	Disable •			
Enable IGMP Snooping	Disable 🔻			
Multicast Rate(Mbps)	Auto v			
Preamble Type	Short •			
RTS Threshold	2347			
DTIM Interval	1			
Beacon Interval	100			
Enable TX Bursting	Enable 🔻			
Enable Packet Aggregation	Enable •			
Enable WMM APSD	Enable 🔹			
Region	Russia (default) •			
	Apply			

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

• Enable Radio: Select Yes to enable wireless networking. Select No to disable wireless networking.

- Set AP Isolated: Prevent 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**: Define the length of time that the router spent for CRC (Cyclic Redundancy Check). CRC is a method of detecting errors during data transmission. Select **Long** if your wireless network is composed of older or legacy wireless devices. Select **Short** for a busy wireless network with high network traffic.
- **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 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**: 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: Improve 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.

4.2 LAN

4.2.1 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.

To modify the LAN IP settings:

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

4.2.2 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.

To configure the DHCP server:

- From the navigation panel, go to Advanced Settings > LAN > DHCP Server tab.
- 2. In the Enable the DHCP Server field, select 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.
- 7. In the **DNC and WINS Server Setting** 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.

4.2.3 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.

To configure the LAN Routing table:

- From the navigation panel, go to Advanced Settings > LAN > Route tab.
- 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. Add a device on the list.
- 4. Click Apply.

4.2.4 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.

4.3 WAN

4.3.1 Internet Connection

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

To configure the WAN connection settings:

- From the navigation panel, go to Advanced Settings > WAN > Internet Connection tab.
- 2. Configure the following settings below. When done, click **Apply**.
 - WAN Connection Type: Choose your Internet Service Provider type. The choices are Automatic IP, Static IP, PPPOE, PPTP or L2TP. 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 automatically: 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.

• **DHCP query frequency**: Changes the DHCP Discovery interval settings to avoid overloading the DHCP server.

4.3.2 Dual WAN

Your ASUS wireless router provides dual WAN support. You can set the dual WAN feature to any of these two modes:

- Failover Mode: Select this mode to use the secondary WAN as the backup network access.
- Load Balance Mode: Select this mode to optimize bandwidth, minimize response time and prevent data overload for both primary and secondary WAN connections.

Internet Connection	Dual WAN	Port Trigger		al Server / Port Forwarding	DMZ	DDNS	NAT Passthrough
WAN - Dual WAN	WAN - Dual WAN						
provides Dual WAN support. Select Failover mode to use a secondary WAN for backup network access. Select Load Balance mode to optimize bandwidth, maximize throughput, minimize response time, and prevent data overload for both WAN connections.							
Basic Config							
Enable Dual WAN		ON					
Primary WAN							
Secondary WAN							
Dual WAN Mode				🚽 🔲 Allow failback			
Auto Network Detec	tion						
Detect Interval			seconds				
Failover Execution Time		Contin	Continous 12 times (= 60 seconds) detect network failed.				
Enable Ping to Internet		• Ye	s O _{No}				
	Αρρίγ						

4.3.3 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.

WAN - Port Trigger Port Trigger allows you to temporarily open data ports when LAN devices require unrestricted access to the Internet. There are two methods for opening incoming data ports: port forwarding and port trigger. Port forwarding opens the specified data ports all the time and devices must use static IP addresses. Port trigger only opens the incoming port when a LAN device requests access to the trigger port. Unlike port forwarding, port trigger does not require static IP addresses for LAN devices. Port forwarding allows multiple devices to share a single open port and port trigger only allows one client at a time to access the open port. <u>Port. Trigger FAQ</u>					
Basic Config					
Enable Port Trigger	• Ye	s • No			
Well-Known Applications		ise select			
Trigger Port List (Max Limit	: 32)	_	_	_	
Description	Trigger Port	Protocol	Incoming Port	Protocol	Add / Delete
тср т 💮					
No data in table.					
Αρρίγ					

To set up Port Trigger:

- From the navigation panel, go to Advanced Settings > WAN > Port Trigger tab.
- 2. On the Enable Port Trigger field, tick Yes.
- 3. On the **Well-Known Applications** field, select the popular games and web services to add to the Port Trigger List.

- 4. On the **Trigger Port List** table, key in the following information:
 - **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.
- 5. Click the **Add** 💮 to enter the port trigger information to the list. Click the **Delete** 🗿 button to remove a port trigger entry from the list.
- 6. When done, click **Apply**.

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.

4.3.4 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 Server / Port Forwarding						
Virtual Server / Port forwarding allows remote computers to connect to a specific computer or service within a private local area network (LAN). For a faster connection, some P2P applications (such as BitTorrent), may also require that you set the port forwarding setting. Please refer to the P2P application's user manual for details. You can open the multiple port or a range of ports in router and redirect data through those ports to a single client on your network. 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.						
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 RT-N10P's web user interface. <u>virtual Server / Port Forwarding FAQ</u>						
Basic Config	_	_	_		_	
Enable Port Forwarding	ı •	res O No				
Famous Server List	Ple	ease select 🔻				
Famous Game List	Ple	ease select 🔹				
Port Forwarding List (Max Li	mit : 32)		_	_	_	
Service Name	Port Range	Local IP	Local Port	Protocol	Add / Delete	
No data in table.						
Apply						

To set up Port Forwarding:

- From the navigation panel, go to Advanced Settings > WAN > Virtual Server / Port Forwarding tab.
- 2. On the Enable Port Forwarding field, tick Yes.

- 3. On the **Famous Server List** field, select the type of service you want to access.
- 4. On the **Famous Game List** field, select the popular game that you want to access. This item lists the port required for your selected popular online game to work properly.
- 5. On the **Port Forwarding List** table, key in the following information:
 - 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 **4.2 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.
- 5. Click the **Add** 💮 to enter the port trigger information to the list. Click the **Delete** 🗿 button to remove a port trigger entry from the list.
- 6. When done, click **Apply**.

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.

4.3.5 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:

- From the navigation panel, go to Advanced Settings > WAN > DMZ tab.
- 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**.

4.3.6 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.

WAN - DDNS					
dynamic public IP address, through its reg and other DDNS services.	s a service that allows network clients to connect to the wireless router, even with a gistered domain name. The wireless router is embedded with the ASUS DDNS service please go to <u>http://iplookup.asus.com/nslookup.php</u> to reach your internet				
The wireless router currently uses a privat This router may be in the multiple-NAT em	te WAN IP address. vironment and DDNS service cannot work in this environment.				
Enable the DDNS Client	• Yes • No				
Apply					

To set up DDNS:

- From the navigation panel, go to Advanced Settings > WAN > DDNS tab.
- 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.

NOTES:

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.

4.3.7 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** tab. When done, click **Apply**.

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

4.4 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.

/ISUS	Logout Rebo	ot		English	Ŧ
Quick Internet	Operation Mode: Wireless router Firmw	are Version: SSID: ASUS_26 ASUS_56	🌲 Арр	8 6	÷
General	IPv6				
Retwork Map	Configure the IPv6 Internet setting of .				
😹 Guest Network	Basic Config				
AiProtection	Connection type	Disable 🔹			
Adaptive QoS		Apply			
Main Traffic Analyzer					
Came Boost					

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.

4.5 VPN Server

VPN (Virtual Private Network) provides a secure communication to a remote computer or remote network using a public network such as the Internet.

NOTE: Before setting up a VPN connection, you would need the IP address or domain name of the VPN server you are trying to access.

VPN Server V	VPN Server VPN Client						
VPN Server - P	PTP						
The wireless rout to <u>FAQ</u> and set p	er currently uses a priv ort forwarding.					ase refer	
Basic Config							
Enable PPTP VI	PN Server	ON					
VPN Details							
Network Place (Samba) Support	• Yes •	No				
The VPN server a	allows you to access y	our home n	etwork anytime, a	anywhere.			
To use the VPN server Please follow these steps. (1) Enable the PPTP VPN server (2) Set the IP pool for client IP, (Maximum 10 clients) (3) Set up the username and password for VPN client. (4) Open the VPN connection program on your computer or smartphone. (5) Add a new PPTP VPN connection and the VPN server address is 1922 168 123.57 (6) IY our VAN IP address is dynamic, <u>please click here to set the DOMS</u> . (7) If you cannot use ASIUS DDNS services, please go to <u>http://iplookup.asus.com/nslookup.php</u> to reach your internet IP address to use this service.							
Username an	Username and Password (Max Limit : 16)						
Connection Status	Username Password Add / Delete Edit						
-					Ð	-	
		No da	ata in table.				
			Apply				

To set up access to a VPN server:

- 1. From the navigation panel, go to **Advanced Settings** > **VPN Server**.
- 2. On the Enable VPN Server field, select Yes.
- 3. On the **VPN Details** dropdown list, select **Advanced Settings** if want to configure advanced VPN settings such as broadcast support, authentication, MPPE Encryption, and Client IP address range.
- 4. On the Network Place (Samba) Support field, select Yes.
- 5. Enter the user name and password for accessing the VPN server. Click the o button.
- 6. Click **Apply**.

4.6 Firewall

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

NOTE: The Firewall feature is enabled by default.

4.6.1 General

To set up basic Firewall settings:

- From the navigation panel, go to Advanced Settings > Firewall > General tab.
- 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.

4.6.2 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:

- From the navigation panel, go to Advanced Settings > Firewall > URL Filter tab.
- 2. On the Enable URL Filter field, select Enabled.
- 3. Enter a URL and click the 💮 button.
- 4. Click Apply.

4.6.3 Keyword filter

Keyword filter blocks access to webpages containing specified keywords.

/isus	Logout Reboot	English 🔻
Quick Internet	Operation Mode: <u>wireless router</u> Firmware Version: SSID: <u>ASIS_25</u> <u>ASIS_55</u>	App 🔏 🔁 🗲
General	General URL Filter Keyword Filter Network Services Filter IPv6 Firewall	
品 Network Map	Firewall - Keyword Filter	
🞎 Guest Network	Keyword Filter allows you to block the clients' access to webpages containing the specified keywords.	
AiProtection	Limitations of the filtering function : 1. Compressed webpages that use HTTP compression technology cannot be filtered. <u>See here :</u>	for more details.
🧑 Adaptive QoS	2. Https webpages cannot be filtered. Basic Config	
Market Traffic Analyzer	Enabled © Disabled	
🙈 Game Boost	Keyword Filter List (Max Limit : 64)	
LSB Application	Keyword Filter List	Add / Delete
AiCloud 2.0	No data in table.	Ð
Advanced Settings	Apply	
🛜 Wireless		

To set up a keyword filter:

- From the navigation panel, go to Advanced Settings > Firewall > Keyword Filter tab.
- 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.

4.6.4 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.

/ISUS	Logout Reboo	English 🔻				
Quick Internet Setup	Operation Mode: Wireless router Firmwa	are Version: SSID: ASIS_26 ASIS_56 🌲 App 🖉 🔂 🔶				
General	General URL Filter Keyword Filter	Network Services Filter IPv6 Firewall				
Retwork Map	Firewall - Network Services Filter					
🞎 Guest Network	The Network Services filter blocks the LAN t services.	o WAN packet exchanges and restricts devices from using specific network				
AiProtection	80 will be blocked.	o use the Internet service, key in 80 in the destination port. The traffic that uses port				
Maptive QoS	Leave the source IP field blank to apply this Black List Duration : During the scheduled	rule to all LAN devices. duration, clients in the Black List cannot use the specified network services. After				
Main Traffic Analyzer		duration, clients in the White List can ONLY use the specified network services.				
🙈 Game Boost	Internet service.	ite List and other network clients will not be able to access the Internet or any				
USB Application	NOTE : If you set the subnet for the White L Internet service.					
AiCloud 2.0	*Reminder: The System time zone is different from your locale setting, Network Services Filter					
Advanced Settings	Enable Network Services Filter	● Yes O No				
💎 Wireless	Filter table type					
🚮 LAN	Well-Known Applications					
(wan	Date to Enable LAN to WAN Fitter	2 Mon D Tue D Wed D Thu D Fri				
-	Time of Day to Enable LAN to WAN Filter					
S IPv6	Date to Enable LAN to WAN Filter	Sat 🖾 Sun				
🤹 VPN	Time of Day to Enable LAN to WAN Filter					
Firewall	Filtered ICMP packet types					
	Network Services Filter Table (Max Lin	nit : 32)				
-	Source IP Port Range	Destination IP Port Range Protocol Add / Delete				
System Log		• • • • •				
Network Tools						
		Apply				
	Help & Support Manual Utility Feedb	ack Product Registration FAQ				
		2017 ASUSTeK Computer Inc. All rights reserve				

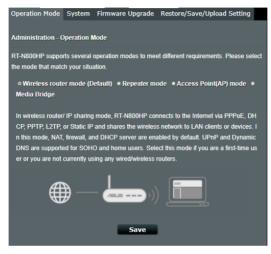
To set up a Network Service filter:

- From the navigation panel, go to Advanced Settings > Firewall > Network Service Filter tab.
- 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**.

4.7 Administration

4.7.1 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** tab.
- 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.
 - Access Point mode: In this mode, the router creates a new wireless network on an exising network.
 - **Media Bridge**: This setup requires two wireless routers. The second router serves as a media bridge where multiple devices such as Smart TVs and gaming consoles can be connected via ethernet.
- 3. Click **Apply**.

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

4.7.2 System

The **System** page allows you to configure your wireless router settings.

To set up the System settings:

- 1. From the navigation panel, go to **Advanced Settings** > **Administration** > **System** tab.
- 2. You can configure the following settings:
 - **Change router login password**: You can change the password and login name for the wireless router by entering a new name and password.
 - Time Zone: Select the time zone for your network.
 - **NTP Server**: The wireless router can access a NTP (Network time Protocol) server in order to synchronize the time.
 - Enable Telnet: Click Yes to enable Telnet services on the network. Click No to disable Telnet.
 - Authentication Method: You can select HTTP, HTTPS, or both protocols to secure router access.
 - Enable Web Access from WAN: Select Yes to allow devices outside the network to access the wireless router GUI settings. Select No to prevent access.
 - Allow only specified IP address: Click Yes if you want to specify the IP addresses of devices that are allowed access to the wireless router GUI settings from WAN.
 - Client List: Enter the WAN IP addresses of networking devices allowed to access the wireless router settings. This list will be used if you clicked Yes in the Only allow specific IP item.
- 3. Click Apply.

4.7.3 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** tab.
- 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 5.2 Firmware Restoration.

4.7.4 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 tab.
- 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**.

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

4.8 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

/ISUS	Logout Rebo	ot		English	
Quick Internet	Operation Mode: <u>Wireless router</u> Firmw	are Version: SSID: <u>ASUS 26</u> ASUS 56	🌲 Арр		÷
General	General Log Wireless Log DHCP lease	es IPv6 Routing Table Port Forwarding	Connections		
品 Network Map	System Log - General Log				
😹 Guest Network	This page shows the detailed system's activ	rities.			
AiProtection	System Time	Wed, Feb 22 10:14:40 2017			
Adaptive QoS	Uptime	0 days 2 hours 55 minute(s) 31 seconds			
Market Traffic Analyzer	Feb 22 09:08:31 kernel: ubi1: mtd9 i: Feb 22 09:08:35 miniupppd[2831]: shu Feb 22 09:08:35 start_nat_rules: app Feb 22 09:08:35 miniupppd[3016]: ver: Feb 22 09:08:35 miniupppd[3016]: HTT	ting down MiniUFnPd by the nat_rules(/tmp/nat_rules_eth0_eth0 sion 1.9 started			Â
Fig Game Boost	Feb 22 09:08:35 miniupnpd[3016]: List Feb 22 09:14:16 rc_service: httpd 17-	<pre>ristening on port 4/356 ening for NAT-PMP/PCP traffic on port 53: l2:notify_rc restart_wrs;restart_firewall soadcom Packet Flow Cache HW acceleration</pre>			
usb Application	Feb 22 09:14:17 kernel: ~[[0:33;43mb] Feb 22 09:14:17 kernel: Disabled Runn Feb 22 09:14:19 kernel: UDB Release ^ Feb 22 09:14:19 kernel: sizeof forwa	er binding to Flow Cache Version: 2.0.1r3116481	arampieg[[0		
AiCloud 2.0	Feb 22 09:14:20 miniupnpd[3016]: shu	ting down MiniUPnPd ty the nat_rules(/tmp/nat_rules_eth0_eth0 sion 1.9 started			
Advanced Settings	Feb 22 09:14:20 miniupnpd[3285]: List Feb 22 09:28:25 rc_service: httpd 17-	ening for NAT-PMP/PCP traffic on port 53 2:notify_rc restart_gos;restart_firewall			
🛜 Wireless	Feb 22 09:28:27 miniupnpd[4417]: ver:	<pre>ty the nat_rules(/tmp/nat_rules_eth0_eth0 sion 1.9 started</pre>			
		P listening on port 58424 cening for NAT-PMP/PCP traffic on port 53 i packet on eth6 with own address as sour-			
💮 WAN	Feb 22 09:44:06 rc_service: httpd 17- Feb 22 09:44:06 Samba Server: amb dar Feb 22 09:44:06 Samba Server: daemon	mon is stoped			ы
1Pv6	4				Ψ •
VPN	Clear	Save Refresh			
Firewall					
Administration					
System Log					

5 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.

5.1 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.

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

5.2 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.

Firmware Restor	ation		×
<u>F</u> ilename:	I		<u>B</u> rowse
Status After locating t	ne firmware file, click Uploa	ıd.	
	<u>U</u> pload	<u>C</u> lose	

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

- 4. Run Firmware Restoration utility.
- 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 4: Configuring the Advanced Settings** for more details.

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

6.1 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 tab. Click Check to verify if the latest firmware is available.
- 2. If the latest firmware is available, visit the ASUS global website at <u>http://www.asus.com/Networks/Wireless_Routers/RT-N800HP/#download</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 powered-on 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 computer.

 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.

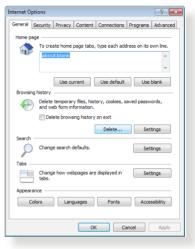
- Each client on the network should have a valid IP address. ASUS recommends that you use the wireless router's DHCP server to assign IP addresses to computers on your network.
- Some cable modem service providers require you to use the MAC address of the computer initially registered on the account. 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.



6.2 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. The default factory login name and password is "admin/admin". 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 8, follow these steps:
 - Launch Internet Explorer 8, then click Tools > Internet Options.
 - In the General tab, under Browsing history, click Delete..., select Temporary Internet Files and Cookies 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.

- 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.

/ISUIS	Logout Reboo	h.	English 🔻
Quick Internet	Operation Mode: <u>Wireless router</u> F	irmware Version: SSID: ASUS ASUS_SG	8 🕞 🔶 B
	LAN IP DHCP Server Route IPTV	Switch Control	
General	LAN - DHCP Server		
Retwork Map	DHCP (Dynamic Host Configuration Protocol) is a protocol for the automatic configuration used on IP networks. The DHCP server		
Guest Network	can assign each client an IP address and informs the client of the of DNS server IP and default gateway IP. <u>Manually_Assigned_IP_around_the_DHCP_list(list_limit:32)_FAQ</u>		
AiProtection	Basic Config		
Adaptive QoS	Enable the DHCP Server	O Yes ○ No	
distance description	Router's Domain Name	192.168.1.2	
AiCloud 2.0	IP Pool Ending Address	192.168.1.254	
Advanced Settings	Lease Time	86400	
S Wireless	Default Gateway		
•	DNS and WINS Server Setting		
LAN LAN	DNS Server		
💮 WAN	WINS Server		
🛞 1РV6	Enable Manual Assignment		
VPN Server	Enable Manual Assignment	● Yes ◎ No	
Firewall	Manually Assigned IP around the DHCP list(list limit:32) MAC address IP Address Add / Delete		
×			(+)
Administration	No data in table.		
System Log	Αρρίγ		

 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.

/505	Logout Reboo	et English 🔻
Quick Internet	Operation Mode: <u>Wireless router</u> F	imware Version: SSID: ASUS ASUS_SG & C + E
General	General WPS Bridge Wireless MA	C Filter RADIUS Setting Professional
	Wireless - General	
Retwork Map	Set up the wireless related information below	
🚨 Guest Network	Frequency	2.4GHz -
AiProtection	SSID	ASUS
Adaptive QoS	Hide SSID	
-	Wireless Mode	Auto V blg Protection
USB Application	Channel bandwidth	20/40 MHz •
AiCloud 2.0	Control Channel	Auto
	Authentication Method	Open System
Advanced Settings	WEP Encryption	None
🛜 Wireless	WEF Encypeon	
🚮 LAN		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.

/isus	Logout Rebor	ot	English 🔻
Quick Internet	Operation Mode: Wireless router Firmw	are Version: SSID: ASUS 2G ASUS 5G	🌲 App 🖧 😰 🗢
General	Operation Mode System Firmware Up	ograde Restore/Save/Upload Setting Feedback	Notification
Retwork Map	Administration - Restore/Save/Up	load Setting	
😹 Guest Network	This function allows you to save current set	ings of to a file, or load settings from a file.	
AiProtection	Factory default	Restore	
Adaptive QoS	Save setting	Save	
Traffic Analyzer	Restore setting	Upload 湖澤磁系 未選擇任何機系	
🙈 Game Boost			
USB Application			
AiCloud 2.0			
Advanced Settings			
察 Wireless			

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 > 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. The default login account and password are both "admin".

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:

User Name:	admin
Password:	admin
Enable DHCP:	Yes (if WAN cable is plugged in)
IP address:	192.168.1.1
Domain Name:	(Blank)
Subnet Mask:	255.255.255.0
DNS Server 1:	192.168.1.1
DNS Server 2:	(Blank)
SSID (2.4GHz):	ASUS_XX_2G

Firmware upgrade failed.

Launch the rescue mode and run the Firmware Restoration utility. Refer to section **5.2 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[°] 7

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



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

utomatic configuration utomatic configuration se of manual setting	on may override n		
 Automatically dete	ect settings		
Use automatic con	figuration script		
Address			
oxy server			
Use a proxy serve dial-up or VPN con		nese setting:	s will not apply to
	neceonay		
Address:	Por	t: 80	Advanced
	Por server for local ad		Advanced

MAC OS

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

		(<u> </u>		
	Locati	ion: Automatic ow: Built-in Ethernet	•	
V FTP Vet Sec	TCP/IP proxy server to Proxy b Proxy (HTTP) ure Web Proxy (HTTP) aming Proxy (RT CKS Proxy oher Proxy	Configure: FTP P	roxies Ethernet roxy Server :: :: :: :: :: :: :: :: :: :: :: :: ::	vord
	proxy settings f psts & Domains			
	assive FTP Mod	e (PASV)		(?)

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[°] 7

- 1. Click Start > Control Panel > Network and Internet > Network and Sharing Center > Manage network connections.
- 2. Select Internet Protocol Version 4 (TCP/IPv4) or Internet Protocol Version 6 (TCP/IPv6), then click Properties.

Networking	Authentication	n	
Connect us	sing:		
👰 Rea	tek PCIe GBE	Family Controller	
			Configure
This conne	ction uses the f	following items:	Configure
🗹 🔮 O	ient for Microso	oft Networks	
🗹 🦲 Q	oS Packet Sch	eduler	
		haring for Microsoft	
		6.X SPR Protocol D	
🗹 🔺 In		Version 6 (TCP/IP)	
	ternet Protocol	Version 4 (TCP/IP	v4)
•	ternet Protocol nk-Layer Topol		v4) per 1/O Driver
	ternet Protocol nk-Layer Topoli nk-Layer Topoli	Ogy Discovery Map	v4) per 170 Driver ponder
Insta	temet Protocol nk-Layer Topoli nk-Layer Topoli all	Version 4 (TCP/IP) ogy Discovery Map	v4) per 1/O Driver
Insta	temet Protocol nk-Layer Topol nk-Layer Topol all	Vesion 4 (TCP/IP ogy Discovery Map logy Discovery Res Uninstall	v4) per 1/O Driver ponder Properties
Insta Descripti Transmi wide are	temet Protocol nk-Layer Topol nk-Layer Topol al on ssion Control Pr a network proto	Vrsion 4 (TCP/IP) ogy Discovery Map logy Discovery Res Uninstall	v4) per 1/0 Driver ponder Properties tocol. The default
Insta Descripti Transmi wide are	temet Protocol nk-Layer Topol nk-Layer Topol al on ssion Control Pr a network proto	Viction 4 (TCP/IP) ogy Discovery Map logy Discovery Res Uninstall	v4) per 1/0 Driver ponder Properties tocol. The default
Insta Descripti Transmi wide are	temet Protocol nk-Layer Topol nk-Layer Topol al on ssion Control Pr a network proto	Vrsion 4 (TCP/IP) ogy Discovery Map logy Discovery Res Uninstall	v4) per 1/0 Driver ponder Properties tocol. The default
Insta Descripti Transmi wide are	temet Protocol nk-Layer Topol nk-Layer Topol al on ssion Control Pr a network proto	Vrsion 4 (TCP/IP) ogy Discovery Map logy Discovery Res Uninstall	v4) per 1/0 Driver ponder Properties tocol. The default
Insta Descripti Transmi wide are	temet Protocol nk-Layer Topol nk-Layer Topol al on ssion Control Pr a network proto	Vrsion 4 (TCP/IP) ogy Discovery Map logy Discovery Res Uninstall	v4) per 1/0 Driver ponder Properties tocol. The default
Insta Descripti Transmi wide are	temet Protocol nk-Layer Topol nk-Layer Topol al on ssion Control Pr a network proto	Vrsion 4 (TCP/IP) ogy Discovery Map logy Discovery Res Uninstall	v4) per 1/0 Driver ponder Properties tocol. The default

3. 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**.

4. Click **OK** when done.

neral	Alternate Configuration				
nis cap	get IP settings assigned autom ability. Otherwise, you need to appropriate IP settings.				
 O 	otain an IP address automatically	6			
0 Us	e the following IP address:				
IP ac	idress:				
Subr	et mask:	÷.		÷.	
Defa	ult gateway:	2	1	а. С	
() O	otain DNS server address autom	atically			
OU	e the following DNS server addr	esses:			
Pref	erred DNS server:				
Alter	nate DNS server:		30		
⊡v	alidate settings upon exit			Adv	anced

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. Cllick **Apply Now** when done.

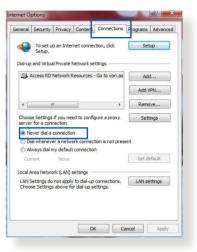
		Network Startup Disk	iow All Displays Sou
	\$	Location: Automatic	L
	;	Show: Built-in Ethernet	
	Proxies Ethernet	P/IP PPPoE AppleTalk Pre	TCP
	•	: Using DHCP	Configure IPv4:
HCP Lease	Renew D	192.168.182.103	IP Address:
	Client ID:	: 255.255.255.0 DHCP 0	Subnet Mask:
ed)	(If require	192.168.182.250	Router:
(Optional)		: 192.168.128.10	DNS Servers:
(Optional)		:	Search Domains:
	24ff:fe32:b18e	: fe80:0000:0000:0000:0211:24	IPv6 Address:
		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[°] 7

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



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

Appendices

Notices

ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components, as well as the packaging materials. Please go to http://csr.asus. com/english/Takeback.htm for the detailed recycling information in different regions.

REACH

Complying with the REACH (Registration, Evaluation, Authorisation, and Restriction of Chemicals) regulatory framework, we published the chemical substances in our products at ASUS REACH website at <u>http://csr.asus.com/english/</u> <u>REACH.htm</u>.

Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.



WARNING!

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Prohibition of Co-location

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

IMPORTANT NOTE:

Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC exposure compliance requirement, please follow operation instruction as documented in this manual. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

CE Statement

Simplified EU Declaration of Conformity

ASUSTek Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. Full text of EU declaration of conformity is available at <u>https://www.asus.com/support/</u>.

Declaration of Conformity for Ecodesign directive 2009/125/EC

Testing for eco-design requirements according to (EC) No 1275/2008 and (EU) No 801/2013 has been conducted. When the device is in Networked Standby Mode, its I/O and network interface are in sleep mode and may not work properly. To wake up the device, press the Wi-Fi on/off, LED on/off, reset, or WPS button.

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

All operational modes:

2.4GHz: 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40)

The frequency, mode and the maximum transmitted power in EU are listed below:

2412-2472MHz (802.11(HT20),MCS16): 19.97 dBm

CE Mark Warning

This is a Class B product, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures. Operation Channels: CH1~11 for N. America; Ch1~13 for Japan; CH1~13 for Europe (ETSI)

This equipment may be operated in AT, BE, CY, CZ, DK, EE, FI, FR, DE, GR, HU, IE, IT, LU, MT, NL, PL, PT, SK, SL, ES, SE, GB, IS, LI, NO, CH, BG, RO, RT.

GNU General Public License

Licensing information

This product includes copyrighted third-party software licensed under the terms of the GNU General Public License. Please see The GNU General Public License for the exact terms and conditions of this license. All future firmware updates will also be accompanied with their respective source code. Please visit our web site for updated information. Note that we do not offer direct support for the distribution.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

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Preamble

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Networks Global Hotline Information

Region	Country	Hotline Number	Service Hours
	Cyprus	800-92491	09:00-13:00 ; 14:00-18:00 Mon-Fri
	France	0033-170949400	09:00-18:00 Mon-Fri
	Germany	0049-1805010920	
		0049-1805010923	09:00-18:00 Mon-Fri
		(component support)	10:00-17:00 Mon-Fri
		0049-2102959911 (Fax)	
	Hungary	0036-15054561	09:00-17:30 Mon-Fri
	Italy	199-400089	09:00-13:00 ; 14:00-18:00 Mon-Fri
	Greece	00800-44142044	09:00-13:00 ; 14:00-18:00 Mon-Fri
	Austria	0043-820240513	09:00-18:00 Mon-Fri
	Netherlands/ Luxembourg	0031-591570290	09:00-17:00 Mon-Fri
	Belgium	0032-78150231	09:00-17:00 Mon-Fri
Europe	Norway	0047-2316-2682	09:00-18:00 Mon-Fri
	Sweden	0046-858769407	09:00-18:00 Mon-Fri
	Finland	00358-969379690	10:00-19:00 Mon-Fri
	Denmark	0045-38322943	09:00-18:00 Mon-Fri
	Poland	0048-225718040	08:30-17:30 Mon-Fri
	Spain	0034-902889688	09:00-18:00 Mon-Fri
	Portugal	00351-707500310	09:00-18:00 Mon-Fri
	Slovak Republic	00421-232162621	08:00-17:00 Mon-Fri
	Czech Republic	00420-596766888	08:00-17:00 Mon-Fri
	Switzerland-German	0041-848111010	09:00-18:00 Mon-Fri
	Switzerland-French	0041-848111014	09:00-18:00 Mon-Fri
	Switzerland-Italian	0041-848111012	09:00-18:00 Mon-Fri
	United Kingdom	0044-1442265548	09:00-17:00 Mon-Fri
	Ireland	0035-31890719918	09:00-17:00 Mon-Fri
	Russia and CIS	008-800-100-ASUS	09:00-18:00 Mon-Fri
	Ukraine	0038-0445457727	09:00-18:00 Mon-Fri

Region	Country	Hotline Numbers	Service Hours
	Australia	1300-278788	09:00-18:00 Mon-Fri
	New Zealand	0800-278788	09:00-18:00 Mon-Fri
	Japan	0800-1232787	09:00-18:00 Mon-Fri
			09:00-17:00 Sat-Sun
		0081-570783886	09:00-18:00 Mon-Fri
		(Non-Toll Free)	09:00-17:00 Sat-Sun
	Korea	0082-215666868	09:30-17:00 Mon-Fri
	Thailand	0066-24011717 09:00-18:00 Mon-Fri	
		1800-8525201	
	Singapore	0065-64157917	11:00-19:00 Mon-Fri
Asia-Pacific		0065-67203835	11:00-19:00 Mon-Fri
		(Repair Status Only)	11:00-13:00 Sat
	Malaysia	1300-88-3495	9:00-18:00 Mon-Fri
	Philippine	1800-18550163	09:00-18:00 Mon-Fri
	India	1800-2090365	09:00-18:00 Mon-Sat
	India(WL/NW)	1800-2090303	09:00-21:00 Mon-Sun
	Indonesia	0062-2129495000	09:30-17:00 Mon-Fri
		500128 (Local Only)	9:30 – 12:00 Sat
	Vietnam	1900-555581	08:00-12:00 13:30-17:30 Mon-Sat
	Hong Kong	00852-35824770	10:00-19:00 Mon-Sat
	USA 1.91	1-812-282-2787	8:30-12:00 EST Mon-Fri
Americas	Canada	1-012-202-2/0/	9:00-18:00 EST Sat-Sun
	Mexico	001-8008367847	08:00-20:00 CST Mon-Fri
			08:00-15:00 CST Sat

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Region	Country	Hotline Numbers	Service Hours	
negion	Egypt	800-2787349	09:00-18:00 Sun-Thu	
	Saudi Arabia	800-1212787	09:00-18:00 Sat-Wed	
	UAE	00971-42958941	09:00-18:00 Sun-Thu	
Middle East +	Turkey	0090-2165243000	09:00-18:00 Mon-Fri	
Africa	South Africa	0861-278772	08:00-17:00 Mon-Fri	
	Israel	*6557/00972-39142800	08:00-17:00 Sun-Thu	
		*9770/00972-35598555	08:30-17:30 Sun-Thu	
	Romania	0040-213301786	09:00-18:30 Mon-Fri	
	Bosnia Herzegovina	00387-33773163	09:00-17:00 Mon-Fri	
	Bulgaria	00359-70014411	09:30-18:30 Mon-Fri	
Balkan		00359-29889170	09:30-18:00 Mon-Fri	
Countries	Croatia	00385-16401111	09:00-17:00 Mon-Fri	
	Montenegro	00382-20608251	09:00-17:00 Mon-Fri	
	Serbia	00381-112070677	09:00-17:00 Mon-Fri	
	Slovenia	00368-59045400	08:00-16:00 Mon-Fri	
		00368-59045401		
	Estonia	00372-6671796	09:00-18:00 Mon-Fri	
Baltic	Latvia	00371-67408838	09:00-18:00 Mon-Fri	
Countries	Lithuania-Kaunas	00370-37329000	09:00-18:00 Mon-Fri	
	Lithuania-Vilnius	00370-522101160	09:00-18:00 Mon-Fri	

Networks Global Hotline Information

NOTES:

- For more information, visit the ASUS support site at: <u>http://support.asus.com</u>
- UK support email: network_support@asus.com

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