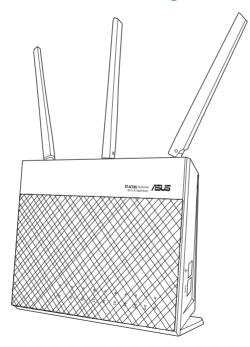
User Guide

RT-AC68U V4 Dual Band

3x3 Wireless-AC 1900 Gigabit Router





E22791 First Edition October 2023

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1 Getting to know your wireless router

1.1 Welcome!

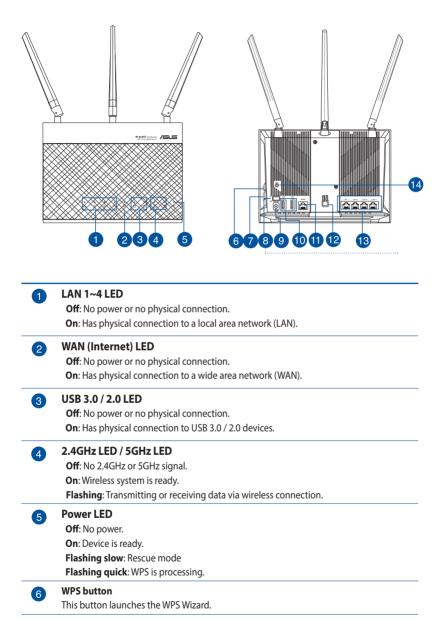
Thank you for purchasing an ASUS RT-AC68U V4 Wireless Router! The ultra-thin and stylish RT-AC68U V4 features a 2.4GHz and 5GHz dual bands for an unmatched concurrent wireless HD streaming; SMB server, UPnP AV server, and FTP server for 24/7 file sharing; a capability to handle 300,000 sessions; and the ASUS Green Network Technology, which provides up to 70% powersaving solution.

1.2 Package contents

☑ RT-AC68U V4 Wireless Router	✓ Network cable (RJ-45)
☑ Power adapter	Quick Start Guide

- 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 would need future warranty services such as repair or replacement.

1.3 Your wireless router



V	Press this button to turn on /off the Wi-Fi connection.
8	Power button Press this button to power on or off the stystem.
9	Power (DCIN) port Insert the bundled AC adapter into this port and connect your router to a power source.
10	USB 3.0 / 2.0 ports Insert USB 3.0 / 2.0 devices such as USB hard disks or USB flash drives into these ports. Insert your iPad's USB cable into one of these ports to charge your iPad.
1	WAN (Internet) port Connect a network cable into this port to establish WAN connection.
12	LED On/Off button Press this button to turn on/off the backlight LED on the panel.
13	LAN 1 ~ 4 ports Connect network cables into these ports to establish LAN connection.
14	Reset button This button resets or restores the system to its factory default settings.

NOTES:

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

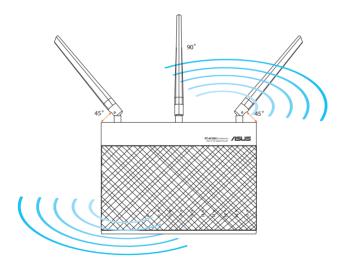
WI-FI On/Off button

DC Power adapter	DC Output: +12V with max 2.5A 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 three 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/ac wireless capability
- An installed TCP/IP service
- Web browser such as Internet Explorer, Firefox, Safari, or Google Chrome

- If your computer does not have built-in wireless capabilities, you may
 install an IEEE 802.11a/b/g/n/ac 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.

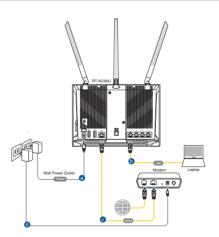
1.6 Router Setup

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:

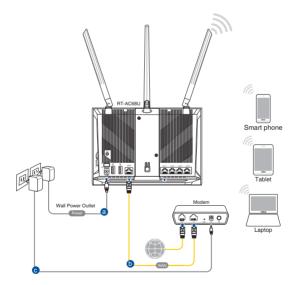
1. Insert your wireless router's AC adapter to the DCIN port and plug it to a power outlet.

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.

1.6.2 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 WLAN adapter on your computer.

- 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: **192.168.1.1** or enter <u>http://www.asusrouter.com</u>.
- 2. On the login page, key in the default user name (**admin**) and password (**admin**).
- 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.

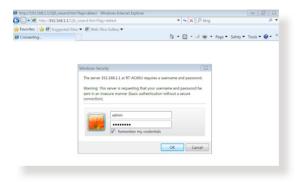
2.2 Quick Internet Setup (QIS) with Autodetection

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.



- By default, the login username and password for your wireless router's Web GUI is admin. For details on changing your wireless router's login username and password, refer to section 4.7.2 System.
- 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. The wireless router automatically detects if your ISP connection type is **Dynamic IP**, **PPPoE**, **PPTP**, **L2TP**, and **Static IP**. Key in the necessary information for your ISP connection type.

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

for Automatic IP (DHCP)

ASUS Router			
Quick Internet Setup	Automatic IP connection setup	3	
(1) Check Connection	Host Name(optional): 3		
Internet Setup	MAC Address(optional) 🦹 MAC Clone		
Router Setup	MAC (Media Access Control) address is a unique identifier that identifies your computer or device in the network. ISP: monitor the MAC addresses of devices that connect to their services, and would disallow Internet connection for new MAC addresses. To fix this issue, you can do either of the following:		
	 Contact your ISP and request to update the MAC address associated with your ISP subscription. Once this is done, you can run the router's setup wirard again. Conce or change the MAC address of the workers to match the MAC address of the original device. If you just replaced an old router, you will ind the old router's MAC address from its label If you previously connected your computer to the modern, your illneed to enter your computer 		
	MAC address or dick "MAC Cone" to done your computer's MAC address. Previous Next		

for PPPoE, PPTP, and L2TP

ASUS Router		
Quick Internet Setup	Account Setting	
Check Connection	Please enter the required information below.	
2 Internet Setup	User Name 🔹	
Router Setup	Password 3	
	Show password	
	Obtain the account name and password from your ISP.	
	Previous Next	

for Static IP

- 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 2.4GHz and 5 GHz wireless connection. Click **Apply** when done.

/ISUS		
Quick Intetnet Setup	Vireless Setting	
(1) Check Connection	Assign a unique name or SSID (Service Set Identifier) to help identify your wireless network.	
Internet Setup	2.40Hz - Security Network Name(SID) 2: 4505	
3 Router Setup	Security Key 2	
	3GHz - Security ■ Copy 2.4GHz to 5GHz settings. Network Name(5SID) 2. #SU5_56	
	Security Key 2	
	Apply	
	Apply	

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

	Completed Network Configuration Sur	nmary
Quick Internet Setup	System Time: Sat, Jan 01	00:02:51 2011 Change the time zone
Check Connection		
	Network Name(SSID)	ASUS-monkey
2) Internet Setup	Wireless Security	Open System
3 Router Setup	Network Name(SSID)	ASUS_5G-monkey
	Wireless Security	Open System
	WAN Connection Type	Automatic IP
	WAN IP	192.168.123.23
	LAN IP	192.168.1.1
	MAC	20:CF:30:B6:C0:C0
		Next
		NEXL

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 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.

- 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, and monitor your USB device.



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.

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

2.4GHz security settings



5GHz security settings



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

4. From the **Security Level** dropdown list, select the encryption method for your wireless network.

IMPORTANT! The IEEE 802.11n/ac 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.

3.1.2 Managing your network clients



To manage your network clients:

- 1. From the navigation panel, go to **General** > **Network Map** tab.
- 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**.

3.1.3 Monitoring your USB device

The ASUS Wireless Router provides two USB ports for connecting USB devices or USB printer to allow you to share files and printer with clients in your network.



- To use this feature, you need to plug a USB storage device, such as a USB hard disk or USB flash drive, to the USB 3.0/2.0 ports on the rear panel of your wireless router. Ensure that the USB storage device is formatted and partitioned properly. Refer to the Plug-n-Share Disk Support List at <u>http://event.asus.com/networks/disksupport</u>
- The USB ports support two USB drives or one printer and one USB drive at the same time.

IMPORTANT! You first need to create a share account and its permission /access rights to allow other network clients to access the USB device via an FTP site/third-party FTP client utility, Servers Center, Samba, or AiCloud. For more details, refer to the section **3.5. Using the USB Application** and **3.6 Using AiCloud** in this user manual.

To monitor your USB device:

- 1. From the navigation panel, go to **General** > **Network Map**.
- 2. On the Network Map screen, select the **USB Disk Status** icon to display your USB device's information.
- 3. On the AiDisk Wizard field, click **GO** to set up an FTP server for Internet file sharing.

- For more details, refer to the section **3.5.2 Using Servers Center** in this user manual.
- The wireless router works with most USB HDDs/Flash disks (up to 2TB size) and supports read-write access for FAT16, FAT32, EXT2, EXT3, and NTFS.

Safely removing the USB disk

IMPORTANT: Incorrect removal of the USB disk may cause data corruption.

To safely remove the USB disk:

- 1. From the navigation panel, go to **General** > **Network Map**.
- In the upper right corner, click > Eject USB disk. When the USB disk is ejected successfully, the USB status shows Unmounted.



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: RT-AC68U V4 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.

The Guest Network provides Intern your Intranet.	net connection for guests but re	estricts access to
Enable	Enable	Enable
Enable	Enable	Enable
Enable	Enable	Enable
Enable	Enable	Enable

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

Guess Network			
The gue:			hout accessing your
Network name:	ASUS_Guest1		
Wireless Security:			
Security key:		Create	Create
Access Time:	Limitless		
Access Intranet:			
	Modify		
Network name:	ASUS_5G_Guest1		
Wireless Security:			
Security key:		Create	Create
Access Time:	Limitless		
Access Intranet:			
	Modify		

- 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**.

3.3 Using the Traffic Manager

3.3.1 Managing QoS (Quality of Service) Bandwidth

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

•	Setup	QoS	Traffic Monitor							
	General	Tr	affic Manager - (202				Automatic mo	de 👻	
品	Network Map				Quality of Service (QoS)	nourse the naturalite	eneed nerforman	e The default rule		
*	Guest Network			sets P2F	The Quality of Service (QSS) ensures the network's speed performance. The default rule sets online gaming and web suring as the highest priority and are not influenced by P2P applications (peer to peer applications such as BifTorrent). To enable QoS					
M	Traffic Manager			field If yo	function, Click the QoS alide avritch, and fill in the upload and download bandwidth fields. Get the bandwith information from your ISP. If you want to prioritize appecific network applications and network devices, select your					
D	Parental control				preferred priority from the Uzer-defined QoS rulez. <u>QoS FAQ</u>					
×	USB application		QoS			DFF				
â	AiCloud					Save				
•	dvanced Settings									
(î)	Wireless		User Specify Rule	List	_			_		
~			Service Name		Source IP or MAC	Destination Port	Protocol	Transferred	Priority	
ស	LAN		Web Surf						Highest	
٢	WAN		HTTP S			443	tcp	0~512	Highest	
	IPv6		File Transfe						Low	
	VPN Server		File Transfe						Low	

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 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.

- 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.

3.3.2 Monitoring Traffic

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.

acruh	QoS Traffic Monitor							
General	Traffic Manage	Traffic Manager - Traffic Monitor						
Network Map	Traffic Monitor allows you	Traffic Monitor allows you to monitor the Incoming or outgoing packets of the following:						
😹 Guest Network		Internet	Wired	Wireless				
🚧 Traffic Manager	Reception				s from wireless			
Parental control	Transmission			network Outgoing packet	utgoing packets from wireless etwork			
usb application		internet are evenly transmitted to the	wired and wireless devices.					
AiCloud	Traffic Monitor FAQ	d Wireless (2.4GHz) 1	Wireless (SGHz)					
Advanced Settings	36.62 KB/s			Tue	04:52 am / 12.24 KB/s			
🛜 Wireless								
	25.63 KB/s							
💮 wan	18.31 KB/s							
IPv6								
VPN Server	9.16 KB/s							
💟 Firew all								
Administration	Network	Current	Average	Maximum	Total			
System Log	Reception	0.10 mm	0.01 kala	0.90 кан	5976			
	Transmission	0.00 xera	0.00 kata	0.31 icani	1920			
	Help & Support	<u>Manual Utility</u>		FAQ	<i>P</i>			

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

3.4 Setting up Parental Control

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

Quick Internet	Operation Mode: <u>wireless router</u> Firmware Version SSID: <u>ASUS ASUS SC</u>	: <u>3.0.0.4.260</u> & © ← B
General	Parental control	
Hetwork Map	Parental control allows y parental control:	ou to set the time limit for a client's network usage. To use
🚨 Guest Network		me] column, select the client whose network usage you want by also key in the clients MAC address in the [Clients MAC
Traffic Manager		te] column, click the Edit icon. e limits in the [Time Management] map. Drag and drop to
Parental control	OFF desired day/time.	e imits in the [Ime Management] map. Drag and drop to the settings made.
USB application	5. <u>Click to open tu</u>	<u>torial video.</u>
aiCloud	Cilents Name	Cilents MAC Address Time Management Add / Delete
Advanced Settings		■ - ⊕
🛜 Wireless		lo data in table.
	•	Αρρίγ

To use the parental control function:

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

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

- 4. Click 🙆 or 🖾 to add or delete the client's profile.
- 5. Set up the allowed time limit in **Time Management** map. Drag and drop a desired time zone to allow client's network usage.
- 6. Click **OK**.
- 7. Click **Apply** to save the settings.

3.5 Using the USB Application

The USB Applications function provides AiDisk, Servers Center, Network Printer Server and Download Master submenus.

IMPORTANT! To use the server functions, you need to insert a USB storage device, such as a USB hard disk or USB flash drive, in the USB 2.0 port on the rear panel of your wireless router. Ensure that the USB storage device is formatted and partitioned properly. Refer to the ASUS website at <u>http://event.asus.com/2009/networks/disksupport/</u> for the file system support table.

3.5.1 Using AiDisk

AiDisk allows you to share files stored on a connected USB device through the Internet. AiDisk also assists you with setting up ASUS DDNS and an FTP server.

To use AiDisk:

- 1. From the navigation panel, go to **General** > **USB application**, then click the **AiDisk** icon.
- 2. From the Welcome to AiDisk wizard screen, click Go.



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

Setup					
General		\bigcirc	۱.		
品 Network Map		(2) (3))		
🞊 Guest Network My i	FTP server is share	ed.: Decide how to share your folders.			
Manager Traffic Manager					
Parental control	mitless access rights mited access rights				
	dmin rights				
AiCloud	Account	Paseword	Read	Write	
Advanced Settings	admin				
🛜 Wireless	Family				
💮 wan		Previous Next			
A					

 Create your domain name via the ASUS DDNS services, read the Terms of Service and then select I will use the service and accept the Terms of service and key in your domain name. When done, click Next.

🖉 Setup	
General	
Retwork Map	
🐣 Guest Network	Create your domain name via the ASUS DDNS services.
Manager Traffic Manager	O I will use the service and accept Terms of service
Parental control	test suscomm.com
K USB application	Disable DDNS.
A i Cloud	
Advanced Settings	Previous Next
🗇 Wineless	

You can also select **Skip ASUS DDNS settings** then click **Next** to skip the DDNS setting.

- 5. Click **Finish** to complete the setting.
- To access the FTP site that you created, launch a web browser or a third-party FTP client utility and key in the ftp link (ftp://<domain name>.asuscomm.com) you have previously created.

3.5.2 Using Servers Center

Servers Center allows you to share the media files from the USB disk via a Media Server directory, Samba share service, or FTP share service. You can also configure other settings for the USB disk in the Servers Center.

Using Media Server

Your wireless router allows DLNA-supported devices to access multimedia files from the USB disk connected to your wireless router.

NOTE: Before using the DLNA Media Server function, connect your device to the RT-AC68U V4's network.

semp	Media Server Network Place(Samba) Share / Cloud Disk FTP Share Miscellaneous setting
General	Media Server
Retwork Map	Set up the DLNA, iTunes, FTP and Network Place (Samba) server.
Suest Network	Enable DLNA Media Server ON
Manager	Enable iTunes Server?
Parental control	Kedia server directory //mp/mt Apply
USB application	Media Server Status Idle
AiCloud	
Advanced Settings	
🛜 Wireless	
🟠 LAN	
🜐 wan	Digital Media Player
🚳 ІРV6	
VPN Server	
Firewall	Digital Media Server
Administration	
System Log	Digital Media Player

To launch the Media Server setting page, go to **General** > **USB application** > **Servers Center** > **Media Servers** tab. Refer to the following for the descriptions of the fields:

- Enable DLNA Media Server: Select ON/OFF to enable/ disable the DLNA Media Server.
- Enable iTunes Server?: Select ON/OFF to enable/disable the iTunes Server.
- **Media server directory**: Select your media server directory and click **Apply** to share files from the USB disk to media devices in the network.
- Media Server Status: Displays the status of the media server.

Using Network Place (Samba) Share service

Network Place (Samba) Share allows you to set up the accounts and permissions for the Samba service.

/5	ius	Logout Reboot	English
	Quick Internet	Operation Mode: <u>Wireless router</u> Firmware Version: SSID: <u>ASUS ASUS 5G</u>	8 6 🔶 a
<u> </u>	Setup	Media Server Network Place(Samba) Share / Cloud Disk FTP Share Miscellaneous	setting
	General		
品	Network Map	USB Application - Network Place(Samba) Share / Cloud Disk	
		Set the account and permission of network place(samba) service.	
** •	Guest Network	Disable Share Share with account Refresh page	
*	Traffic Manager	$\oplus \odot \oslash$	A C 🕅
	Parental control	Router R/W	R No
*	USB application	Kingston DT 101 G2	
â /	AiCloud	Apply	

To use Samba share:

1. From the navigation panel, go to **General** > **USB application** > **Servers Center**.

NOTE: Network Place (Samba) Share is enabled by default.

2. Follow the steps below to add, delete, or modify an account.

To create a new account:

- a) Click 🕑 to add new account.
- b) In the **Account** and **Password** fields, key in the name and password of your network client. Retype the password to confirm. Click **Add** to add the account to the list.

a	Add new account lace/Samba) Share / Clour.*O
L	New account has no read/write access rights.
	Account:
ľ	Password:
	Retype password:
ł	Add
	RT-AC66U

To delete an existing account:

- a) Select the account that you want to delete.
- b) Click \varTheta.
- c) When prompted, click **Delete** to confirm the account deletion.

To add a folder:

- a) Click 🖳
- b) Enter the folder name, and click **Add**. The folder that you created will be added to the folder list.

The default access rights for a new folder is read/write. Ble Share Share with account Folder Name: Add	Add new folder in: sda.ce(Samba) Share / Cloud D&I
Folder Name:	
Add	
	Add

- 3. From the list of folders, select the type of access permission that you want to assign for specific folders:
 - R/W: Select this option to assign read/write access.
 - R: Select this option to assign read-only access.
 - No: Select this option if you do not want to share a specific file folder.
- 4. Click **Apply** to apply the changes.

Using the FTP Share service

FTP share enables an FTP server to share files from USB disk to other devices via your local area network or via the Internet.

IMPORTANT:

- Ensure that you safely remove the USB disk. Incorrect removal of the USB disk may cause data corruption.
- To safely remove the USB disk, refer to the section **Safely removing** the USB disk under 3.1.3 Monitoring your USB device.

/6	SUS	Logout	Reboot		English 🔻
+**	Quick Internet Setup	Operation Mode: Mire	less router Firmware Version:	SSID: ASUS ASUS_SG	& G 🔶 🖻
	Setup	Media Server Netwo	ork Place(Samba) Share / Cloud Disk	FTP Share Miscellaneous setting	
	General				
品	Network Map	USB Application - Set the account and per			
*	Guest Network	Enable FTP		ish page	
₩	Traffic Manager	⊕ ⊕	0		4 2 🕅
٥	Parental control	admin	Router	R/W W R	No
ŧ	USB application	•			
<u></u>	AiCloud			Apply.	
Ad	dvanced Settings				

To use FTP Share service:

NOTE: Ensure that you have set up your FTP server through AiDisk. For more details, refer to the section **3.5.1 Using AiDisk**.

- 1. From the navigation panel, click **General** > **USB application** > **Servers Center** > **FTP Share** tab.
- 2. From the list of folders, select the type of access rights that you want to assign for specific folders:
 - R/W: Select to assign read/write access for a specific folder.
 - W: Select to assign write only access for a specific folder.
 - **R**: Select to assign read only access for a specific folder.
 - No: Select this option if you do not want to share a specific folder.
- 3. Click **Apply** to confirm the changes.
- 4. To access the FTP server, key in the ftp link **ftp://<hostname>.asuscomm.com** and your user name and password on a web browser or a third-party FTP utility.

Miscellaneous setting

Miscellaneous setting allows you to configure other settings for the USB disk, including the maximum number of user logins, the device name, work group, and character set used on the FTP server.

To configure Miscellaneous settings:

1. From the navigation panel, click **General** > **USB application** > **Servers Center** > **Miscellaneous setting** tab.

+**	Quick Internet Setup	Operation Mod	e: <mark>Wireless router</mark>	Firmware Version:	SSID: ASUS	ASUS_5G	8 ⊕ ♦ 8
-		Media Server	Network Place(Samba) Share / Cloud Disk	FTP Share	Miscellaneous setting	
	General						
品	Network Map	USB Applic	ation - Miscellaneou	is setting			
		More detailed s	ttings for the USB Disk.				
*	Guest Network	Maximum Log	n User	5			
1	Traffic Manager	Device Name					
	Parental control	Work Group		WORKGROUP			
-		Character set	on FTP Server		•		
1.1	USB application						
<u></u>	Apply AkCloud						

2. Configure the following settings:

Maximum Login User

Set the maximum number of concurrent connections of the Network Neighborhood or FTP Server.

NOTE: Some FTP clients may establish more than one connection. Setting this number too low will lead to login failures.

Device Name

Assigns the name of the device as shown on the network. For example, for a device with the name ABC, enter //ABC on the Internet Explorer address bar to access the Network Place service.

Work Group

Assigns the name of the local RT-AC68U V4 network as seen in Network Neighborhood.

NOTE: For **Device Name** and **Work Group**, the standard input characters include letters (a-z, A-Z), digits (0-9), space, underscores(_), and hyphens(-). The first and last character should not contain any spaces. An invalid workgroup name makes it harder for other devices to find your device in the network.

Character set on FTP Server

Select the appropriate encoding used during data exchange on the FTP server.

3.5.3 3G/4G

3G/4G USB modems can be connected to RT-AC68U V4 to allow Internet access.

NOTE: For a list of verified USB modems, please visit: http://event.asus.com/2009/networks/3gsupport/

*/**	Quick Internet Setup	Operation Mode: <u>Wireless router</u> F SSID: ASUS ASUS_SG	rmware Version: <u>3.0.0.4.260</u> 💍 🔶 🖪
	General	USB Modem	S
品	Network Map	The current 3G/4G setting is set to 3G/4G B turn to 3G/4G mode.	ackup mode. If WAN port was disconnected, the network mode will automatically
*	Guest Network	Basic Config	
<u> </u>	Traffic Manager	Enable USB Modem	© Yes ● No
•	-	Location	Manual 🗸
ß	Parental control	USB Modem	WCDMA (UMTS)
ŧ.	USB application	APN service(optional)	
â	AiCloud	Dial Number	
		PIN code	
A	dvanced Settings	Usemame	
,	Wireless	Password	
ഹ്	LAN	USB Adapter	auto
٢	WAN		Арріу
~			

To set up 3G/4G internet access:

- 1. From the navigation panel, click **General** > **USB application** > **3G/4G**.
- 2. In the Enable USB Modem field, select Yes.
- 3. Set up the following:
 - Location: Select your 3G/4G service provider's location from the dropdown list.
 - **ISP**: Select your Internet Service Provider (ISP) from the dropdown list.
 - **APN (Access Point Name) service (optional)**: Contact your 3G/4G service provider for detailed information.
 - **Dial Number and PIN code**: The 3G/4G provider's access number and PIN code for connection.

NOTE: PIN code may vary from different providers.

- Username / Password: The username and password will be provided by the 3G/4G network carrier.
- **USB Adapter**: Choose your USB 3G / 4G adapter from the dropdown list. If you are not sure of your USB adapter's model or the model is not listed in the options, select **Auto**.
- 4. Click Apply.

NOTE: The router will reboot for the settings to take effect.

3.6 Using AiCloud 2.0

AiCloud 2.0 is a cloud service application that allows you to save, sync, share, and access your files.



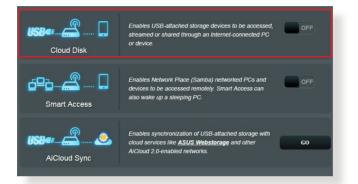
To use AiCloud:

- 1. From Google Play Store or Apple Store, download and install the ASUS AiCloud app to your smart device.
- 2. Connect your smart device to your network. Follow the instructions to complete the AiCloud setup process.

3.6.1 Cloud Disk

To create a cloud disk:

- 1. Insert a USB storage device into the wireless router.
- 2. Turn on Cloud Disk.



3. Go to <u>http://www.asusrouter.com</u> and enter the router login account and password. For better user experience, we recommend that you use **Google Chrome** or **Firefox**.

🚳 ASUS Wireless Router Rou x 📝 🖉 AlCloud x	
← → C	
	AiCloud
	Welcome. Who's coming home?
	Your Name.
	Your Password.
	Θ

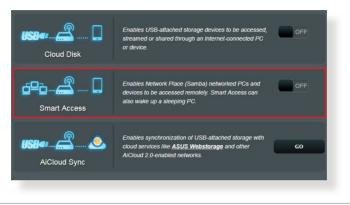
4. You can now start accessing Cloud Disk files on devices connected to the network.

NOTE: When accessing the devices that are connected to the network, you need to enter the device's user name and password manually, which will not be saved by AiCloud for security reason.

ASUS Wireless Router Rou × ▲ AiCloud AiCloud AiCloud Aicloud	× Less
AiCloud	Welcome home, admin
	/ RT-AC66U
• 🖶 RT-AC66U	KINSTON

3.6.2 Smart Access

The Smart Access function allows you to easily access your home network via your router's domain name.



NOTES:

- You can create a domain name for your router with ASUS DDNS. For more details, refer to section 4.3.5 DDNS.
- By default, AiCloud provides a secure HTTPS connection. Key in <u>https://[yourASUSDDNSname].asuscomm.com</u> for a very secure Cloud Disk and Smart Access usage.

3.6.3 AiCloud Sync

/islis	Logout Rebo	ot	English		
Quick Internet Setup	Operation Mode: <u>Wireless router</u> Firm	ware Version: SSID: ASUS ASUS 5G	Арр 🔏 🔁 🛠		
General	AiCloud 2.0 AiCloud Sync Settings	Log			
Network Map	AiCloud 2.0 - AiCloud Sync				
Guest Network					
🔗 Traffic Manager	USB==	Enables AlCloud Sync functionality. For step-by- FAQ	step instructions, go to		
Parental Controls	OFF				
👸 USB Application	Cloud List				
AiCloud 2.0	Provider Username	Rule Folder Name (Connection Status Delete		
Advanced Settings	Advanced Settings No data in table.				
Wireless					
🕎 LAN		Add new account			

To use AiCloud Sync:

- 1. Launch AiCloud, click **AiCloud Sync** > **Go**.
- 2. Select **ON** to enable AiCloud Sync.
- 3. Click Add new account.
- 4. Enter your ASUS WebStorage account password and select the directory that you want to sync with WebStorage.
- 5. Click Apply.

4 Configuring the Advanced Settings

4.1 Wireless

4.1.1 General

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

Quick Internet	Operation Mode: Wireless router Fi	irmware Version: SSID: ASUS ASUS_SG & B 🔁 🔶 🛽
setup	General WPS Bridge Wireless MA	C Filter RADIUS Setting Professional
General	Wireless - General	
Retwork Map		
🞊 Guest Network	Set up the wireless related information below Frequency	2.4GHz 👻
Manager Traffic Manager	SSID	
Parental control	Hide SSID	● Yes © No
USB application	Wireless Mode	Auto 🔽 🗹 b/g Prolection
•	Channel bandwidth	20/40 MHZ 💌
AiCloud	Control Channel	Auto 🗸
Advanced Settings	Authentication Method	Open System
察 Wireless	WEP Encryption	None
습 LAN		Apply

To configure the basic wireless settings:

- From the navigation panel, go to Advanced Settings > Wireless > General tab.
- 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 2.4 GHz 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 802.11AC, 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 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. 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.

- 8. Select any of these authentication methods:
 - Open System: This option provides no security.
 - **Shared Key**: You must use WEP encryption and enter at least one shared key.

- WPA/WPA2 Personal/WPA Auto-Personal: This option provides strong security. You can use either WPA (with TKIP) or WPA2 (with AES). If you select this option, you must use TKIP + AES encryption and enter the WPA passphrase (network key).
- WPA/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.
- Radius with 802.1x

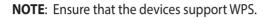
NOTE: Your wireless router supports the maximum transmission rate of 54Mbps when the **Wireless Mode** is set to **Auto** and **encryption method** is **WEP** or **TKIP**.

- 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**.

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.



Quick Inter		r Firmware Version: SSID: ASUS ASUS_SG ASUS_SG Status Professional				
General		easy and secure establishment of a wireless network. You can configure WPS here via				
Guest Netw	ork the PIN code or the WPS button.					
Traffic Man	Current Frequency	2.4GHz				
USB applica	Connection Status tion Configured	lde Yes Reset				
AiCloud	AP PIN Code	72013502				
Advanced Sel	Advanced Settings You can easily connect a WPS client to the network in either of these two ways: Writeless Writeless Writeless Works that on on this interface (or press the physical WPS button on the router), then press the WPS button on the client WPS process might the client PNN code criter the client's PIN code on the Client PNN code					
G LAN	your wireless client does not sup	field and click Start. Please check the user manual of your wheless client to see if it supports the WPS function. If your wireless client does not support the WPS function, you have to configure the wireless client manually and set the same network name(SSD), and security settings as this router.				
🛞 IPv6	WPS Method	Push Button O Client PIN Code Start				
Server						

To enable WPS on your wireless network:

- From the navigation panel, go to Advanced Settings > Wireless > WPS tab.
- 2. In the Enable WPS field, move the slider to ON.
- 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, and WPA2-Personal. WPS does not support a wireless network that uses a Shared Key, WPA-Enterprise, WPA2-Enterprise, and RADIUS encryption method.

- 3. 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.

Quick Internet	Operation Mode: <u>Wireless router</u> F	rmware Version: SSID: <u>ASUS</u> <u>ASUS_56</u>	8 🔶 🤤					
seup	General WPS Bridge Wireless MA	C Filter RADIUS Setting Professional						
General								
Retwork Map	Wireless - Dhuge	Wireless - Bridge Bridge (or named WDS - Wireless Distribution System) function allows your Router to connect to an access point wirelessly. WDS may also be considered a reparater mode. But with this method, the devices connected to the access point will only be able have but of the functions point function tuning to move the access point will only be						
🔏 Guest Network								
Manager	To enable WDS to extend the wireless signal		athod					
Parental control	 Select [WDS Only] or [Hybrid] mode a Ensure that this wireless router and the 	and add MAC address of APs in Remote AP List. e AP you want to connect to use the same channel.						
USB application	 Key in the remote AP mac in the rem router's MAC address: 	ote AP list and open the remote AP's WDS management in	nterface, key in the this					
AiCloud	(2.4GHz MAC) 10.8F:48:D8.49:78 (5GHz MAC) 10.8F:48:D8:49:7C 5. You are currently using the Auto chan	nel Click Here to modify						
Advanced Settings	Basic Config							
🛜 Wireless	Frequency	2.4GHz 💌						
😭 LAN	AP Mode	AP Only 🔽						
	Connect to APs in list	● Yes [©] No						
💮 wan	Remote AP List							
🛞 IРv6	Remote AP List Add / Delete							
VPN Server	No data in table.							
Firewall	Αρρίγ							
Administration								

To set up the wireless bridge:

- From the navigation panel, go to Advanced Settings > Wireless > Bridge 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. 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.

 On the Remote AP List, key in a MAC address and click the Add button () 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.

Quick Internet	Operation Mode: <u>Wireless router</u>	Firmware Version: SSID: ASUS ASUS_5G	8 io 🔶 🗉
semp	General WPS Bridge Wireless M	AC Filter RADIUS Setting Professional	
General	Wireless - Wireless MAC Filter		
Hetwork Map			
Guest Network	Wireless MAC filter allows you to control pa Basic Config	ckets from devices with specified MAC address in your Wire	eless LAN.
A-1	Basic Coning Frequency	2.4GHz 💌	
Traffic Manager	MAC Filter Mode	Disabled 🗸	
Parental control			
USB application	MAC filter list	MAC filler list	Add / Delete
AiCloud			Ð
		No data in table.	
Advanced Settings			
🛜 Wireless		Apply	

To set up the Wireless MAC filter:

- From the navigation panel, go to Advanced Settings > Wireless > Wireless MAC Filter tab.
- 2. In the **Frequency** field, select the frequency band that you want to use for the Wireless MAC filter.
- 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.

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.

+**	Quick Internet Setup	Operation Mode: <u>Wireless router</u> Firmware Version: SSID: <u>ASUS ASUS SG</u> <u>B</u> \leftarrow <u>B</u>					
_		General WPS Bridge Wireless MAC Filter RADIUS Setting Professional					
	General						
品	Network Map	Wireless - RADIUS Setting					
		This section allows you to set up additional parameters for authorizing wireless clients through RADIUS server. It is required while					
*	Guest Network	you select "Authentication Method" in "Wireless - General" as "WPA-Enterprise/ WPA2-Enterprise/ Radius with 802.1x".					
1.1	Traffic Manager	Frequency 2.4GHz 💌					
	Trutte Plundger	Server IP Address					
	Parental control						
_		Server Port 1812					
	USB application	Connection Secret					
a	AiCloud	Apply					
Advanced Settings							
S Wireless							
5	mineress						

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. 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.

4.1.6 Professional

The Professional screen provides advanced configuration options.

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

Quick Internet	Operation Mode: <u>Wireless router</u> Firmware Version: SSID: <u>ASUS</u> <u>ASUS SG</u>
	General WPS Bridge Wireless MAC Filter RADIUS Setting Professional
General	
Network Map	Wireless - Professional
Guest Network	Wireless Professional Setting allows you to set up additional parameters for wireless. But default values are recommended. Frequency 2.4GHz
🞽 🛛 Traffic Manager	Enable Radio O Yes O No
Parental control	Date to Enable Radio (week days)
USB application	
AiCloud	Date to Enable Radio (weekend) 🖸 Sat 🖬 Sun Time of Day to Enable Radio 00 : 00 - 23 : 59
Advanced Setting	set AP Isolated Yes O No
🛜 Wireless	Multicast Rate(Mbps) Disable -
	Preamble Type
	RTS Threshold 2347
🕽 wan	DTIM Interval 3
IPv6	Beacon Interval 100
🚯 VPN Server	Enable TX Bursting Enable
	Wireless Multicast Forwarding Disable -
Firewall	Enable WMM APSD Enable
Administration	Tx power adjustment Set the capability for transmission power. The maximum value is 200mW and the real
📝 System Log	transmission power will be dynamically adjusted to meet regional regulations
	Apply

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

- **Frequency**: 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.
- Date to Enable Radio (weekdays): You can specify which days of the week wireless networking is enabled.
- **Time of Day to Enable Radio**: You can specify a time range when wireless networking is enabled during the week.

- Date to Enable Radio (weekend): You can specify which days of the weekend wireless networking is enabled.
- **Time of Day to Enable Radio**: You can specify a time range when wireless networking is enabled during the weekend.
- 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.

- Wireless multicast forwarding: Select Enable to allow the wireless router to forward multicast traffic to other wireless devices that support multicast. Select **Disable** to prevent the router from forwarding multicast transmissions.
- **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.
- **TX Power adjustment**: TX Power adjustment refers to the milliWatts (mW) needed to power the radio signal output of the wireless router. Enter a value between 0 to 100.

NOTE: Increasing the TX Power adjustment values may affect the stability of the wireless network.

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.

/1545	Logout Reboo	t	English 🔻		
Quick Internet	Operation Mode: <u>Wireless router</u> Fi	rmware Version: SSID: ASUS ASUS_5G	8 G 🗢 I		
setup	LAN IP DHCP Server Route IPTV	Switch Control			
General					
品 Network Map	LAN - LAN IP				
	Configure the LAN setting of Router.				
Guest Network	IP Address	192.168.1.1			
.A.1	in Address				
Traffic Manager	Subnet Mask				
Parental control		Apply			

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.

+**	Quick Internet Setup	Operation Mode: Wireless router	Firmware Version:	SSID: ASUS ASUS_SG	8 9 4 8					
·	setup	LAN IP DHCP Server Route IPTV	Switch Control							
	General	LAN - DHCP Server								
品	Network Map									
*	Guest Network	DHCP (Dynamic Host Configuration Protocol) is a protocol for the automatic configuration used on IP networks. The DHCP server can assign each client an IP address and informs the client of the of DNS server IP and default gateway IP. Manually Assigned TP around the DHCP list(Tist Timit;32) EAQ								
₩.	Traffic Manager	Basic Config	_	_						
A	Parental control	Enable the DHCP Server	🛛 Yes 🔍 No							
-		Router's Domain Name								
•••	USB application	IP Pool Starting Address								
<u>a</u>	AiCloud	IP Pool Ending Address								
~	lvanced Settings	Lease Time	86400							
()o	Wireless	Default Gateway								
		DNS and WINS Server Setting	_							
សៅ	LAN	DNS Server								
۲	WAN	WINS Server								
8	IPv6	Enable Manual Assignment								
<u>_</u>	VPN Server	Enable Manual Assignment	• Yes • No							
10	VPN Server	Manually Assigned IP around the DHCP list(list limit:32)								
Q	Firewall	MAC address		IP Address	Add / Delete					
&	Administration				Ð					
	System Log									
	System Log		Арр	ly						

To configure the DHCP server:

- 1. From the navigation panel, go to **Advanced Settings** > **LAN** > **DHCP Server** tab.
- 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 192.168.1.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.

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.

Quick Internet	Operation Mode: <u>Wireless router</u> Fi	rmware Version: SSID: <u>ASUS</u> <u>ASUS</u>	<u>se</u> 😤 🔁 e 🖻						
General									
Hetwork Map	LAN - Route This function allows you to add routing rules into Router. It is useful if you connect several routers behind Router to share the								
🖧 Guest Network	same connection to the Internet.								
Manager Traffic Manager	Basic Config Enable static routes	● Yes O No							
Parental control	Static Route List	Static Route List							
📩 USB application	Network/Host IP	Netmask Gateway	Metric Interface Add / Delete						
AiCloud	No data in table.								
Advanced Settings Apply									
察 Wireless									

To configure the LAN Routing table:

- 1. 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. Click the **Add** or **Delete** button to add or remove 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.

Quick Internet	Operation Mode: <u>Wireless router</u> Firmware Version: SSID: <u>ASUS ASUS SG</u> <u>ASUS SG</u>
seup	LAN IP DHCP Server Route IPTV Switch Control
General	LAN - IPTV
品 Network Map	
🖧 Guest Network	Configure the IPTV setting of Router. Part
	Select ISP Profile
Traffic Manager	Choose IPTV STB Port None
Parental control	
duse application	Special Applications
USB application	Use DHCP routes Microsoft
AiCloud	Enable multicast routing Disable -
Advanced Settings	Enable efficient multicast forwarding Disable 💌
察 Wireless	UDP Proxy(Udpxy) 0
o meress	Apply
G LAN	

4.3 WAN

4.3.1 Internet Connection

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

+**	Quick Internet Setup	Operation Mode: <u>Wireless router</u> Fi	irmware Version: SSID: <u>ASUS ASUS SG</u> & C + E							
_		Internet Connection Port Trigger Vir	tual Server / Port Forwarding DMZ DDNS NAT Passthrough							
品	General Network Map	WAN - Internet Connection Router supports several connection types to WAN (wide area network). These types are selected from the dropdown menu beside								
*	Guest Network	WAN Connection Type: The setting fields differ depending on the connection type you selected.								
·A-4		Basic Config								
<u> </u>	Traffic Manager	WAN Connection Type	Automatic IP 🔽							
D	Parental control	Enable WAN	© Yes ● No							
*	USB application	Enable NAT	© Yes ● No							
<u></u>	AiCloud	Enable UPnP UPnP FAQ	O Yes INO							
		WAN DNS Setting								
A	dvanced Settings	Connect to DNS Server automatically	© Yes ● No							
(100	Wireless	Account Setting								
ជ	LAN	Authentication	None							
	WAN	Password								
		Special Requirement from ISP								
A	IPv6									
		Host Name								
×\$	VPN Server	MAC Address	MAC Clone							
Q	Firewall		Арріу							

To configure the WAN connection settings:

- 1. 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, 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.

4.3.2 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.

+	Quick Internet Setup	Operation Mode: Wire	eless router	Firmware V	ersion: SS	ID: ASUS ASUS	<u>56</u>		<u>8</u> 6 4 8		
·	setup	Internet Connection	Port Trigger	Virtual Serv	er / Port Forwa	arding DMZ	DDNS	NAT Pass	hrough		
	General										
品	Network Map	WAN - Port Trigger									
*	Guest Network	Port Trigger allows you to temporarily open data ports when LAW 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 ports the incoming down twhen a LAW device requests									
<u> </u>	2 Traffic Manager 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										
ß	Parental control	port. Port. Trigger_FAQ									
	USB application	Basic Config									
-		Enable Port Trigger		• Yes	© No						
â	AiCloud	Well-Known Applications				•					
٨	lvanced Settings	Trigger Port List	_			_					
6	Wireless	Description	Trigg	er Port	Protocol	Incoming Po	rt	Protocol	Add / Delete		
•					тср 💌			тср 👻	Ð		
ដ	LAN			N	No data in table.						
	🔁 WAN Apply										
8	IPv6										

To set up Port Trigger:

- 1. From the navigation panel, go to **Advanced Settings** > **WAN** > **Port Trigger** tab.
- 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.

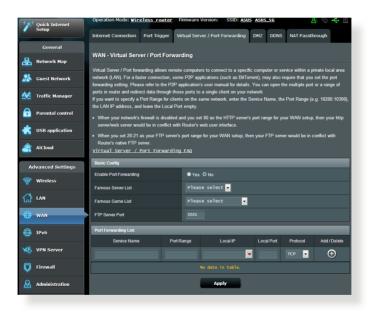
NOTES:

- 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.

4.3.3 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.



To set up Port Forwarding:

 From the navigation panel, go to Advanced Settings > WAN > Virtual Server / Port Forwarding tab.

- 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 **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.

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.

4.3.4 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:

- 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**.

4.3.5 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.

75	545	Logout Reboot English V
+**	Quick Internet Setup	Operation Mode: <u>Wireless router</u> Firmware Version: SSID: <u>ASUS ASUS 5G</u>
<u> </u>	Setup	Internet Connection Port Trigger Virtual Server / Port Forwarding DMZ DDNS NAT Passthrough
	General	
品	Network Map	WAN - DDNS
*	Guest Network	DDNS (Dynamic Domain Name System) is a service that allows network clients to connect to the wireless router, even with a dynamic public IP address, through its registered domain name. The wireless router is embedded with the ASUS DDNS service and other DDNS services.
<u>**</u>	Traffic Manager	The wireless router currently uses a private WAN IP address (192.168 x.x, 10,x,x,x, or 172.16 x.x). This router may be in the multiple-IAT environment and DDNS service cannot work in this environment.
ß	Parental control	Enable the DDNS Client Yes No
٠	USB application	Αρρίγ
<u></u>	AiCloud	

To set up DDNS:

- 1. 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.

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

+ Quick Internet	Operation Mode: <u>Wireless</u> router	Firmware Version: SSID: ASUS ASUS SG	8 🖻 🔶 🛙
Setup	Internet Connection Port Trigger	Virtual Server / Port Forwarding DMZ DDNS NAT	Passthrough
General			
Network Map	WAN - NAT Passthrough		
	Enable NAT Passthrough to allow a Virt	ual Private Network (VPN) connection to pass through the route	r to the network clients.
Guest Network	PPTP Passthrough	Enable 💌	
Traffic Manager	L2TP Passthrough	Enable 💌	
Parental control	IPSec Passthrough	Enable 🗸	
USB application	RTSP Passthrough	Enable 💽	
USB apprication	Enable PPPoE Relay	Disable -	
AiCloud		Apply	
Advanced Settings			

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.

Operation Mode: Wireless router Firmware Version: SSID: ASUS ASUS AS S	/1545	Logout Reboo	t	English 🔻
General IPv6 Retwork Map IPv6 Configure the IPv6 Internet setting of Router. Configure the IPv6 Internet setting of Router. Configure the IPv6 Internet setting of Router. IPv6 EAQ Configure the IPv6 Internet setting of Router. Configure the IPv6 Internet setting of Router. IPv6 EAQ Configure the IPv6 Internet setting of Router. IPv6 EAQ Configure the IPv6 Internet setting of Router. IPv6 EAQ Configure the IPv6 Internet setting of Router. IPv6 EAQ Configure the IPv6 Internet setting of Router. IPv6 EAQ Configure the IPv6 Internet setting of Router. IPv6 EAQ Disable IPv6 EAQ Disable IPv6 EAQ IPv6 EAQ IPv6 EAQ Disable IPv6 EAQ IPv6 EAQ IPv6 E	Quick Internet	Operation Mode: <u>Wireless router</u> Fi	rmware Version: SSID: ASUS ASUS_SG	8 G 🔶 I
Network Map IPv6 & Cuest Network Configure the IPv6 Internet setting of Router. Internet Configure the IPv6 Internet setting of Router. Internet Configure the IPv6 Internet setting of Router. Internet Configure the IPv6 Internet setting of Router. Internet Configure the IPv6 Internet setting of Router. Internet Configure the IPv6 Internet setting of Router. Internet Configure the IPv6 Internet setting of Router. Internet Configure the Internet Setting Internet Setting Internet Configure the Internet Setting Internet Setting		IPv6		
Image: Network Map Configure the IP-V6 Internet setting of Router. Image: Cuest Network Image: Cuest Network Image: Cuest Network Image: Cuest Network Image: Traffic Manager Connection type Image: Cuest Network Image: Cuest Network Image: Parental control Anto Configuration Setting	General			
	品 Network Map			
Image: Traffic Manager Connection type Df SabTe Parental control Auto Configuration Setting	🞎 Guest Network			
Connection type Disable Disable Auto Configuration Setting Auto Configuration Setting	A.4	Basic Config		
Auto Comiguration Setting	Traffic Manager	Connection type	Disable 🔹	
ISB application Enable Router Advertisement Enable E	Parental control	Auto Configuration Setting		
	disb application	Enable Router Advertisement	Enable 🔽	
Apply Apply	AiCloud		Αρρίγ	

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.

7	545	Logout Reboo	t	English 🔻
****	Quick Internet Setup	Operation Mode: <u>Wireless router</u> Fi VPN Server VPN Details	rmware Version: SSID: <u>ASUS ASUS SG</u>	8 🔁 🗲 🖻
	General			
品	Network Map	VPN Server - Basic Config		
*	Guest Network	The VPN server allows you to access your he To use the VPN server. Please follow these s (1) Enable the PPTP VPN server		
₩.	Traffic Manager	 Enable the PPTP VPN server Set the IP pool for client IP. (Maximum 10) Set up the username and password for VF 		
ß	Parental control	(4) Open the VPN connection program on you (5) Add a new PPTP VPN connection and the	ur computer or smartphone. • VPN server address is 0.0.0.0	
*	USB application	(6) If your WAN IP address is dynamic, p] (7) <u>VPN_Server_FAQ</u>	ease click here to set the DDNS.	
	AiCloud	Basic Config		
-		Enable PPTP Server	● Yes ◎ No	
A	dvanced Settings	Network Place (Samba) Support	• Yes O No	
00	Wireless	Username and Password		
្ឋ	LAN	User Name	Password	Add / Delete
				Ð
	WAN		No data in table.	
6	IPv6		Apply	
×\$	VPN Server			

To set up access to a VPN server:

- 1. From the navigation panel, go to **Advanced Settings** > **VPN Server**.
- 2. On the Enable PPTP Server field, select Yes.
- 3. On the Network Place (Samba) Support field, select Yes.
- 4. Enter the user name and password for accessing the VPN server. Click the 💮 button.
- 5. Click Apply.

NOTE: For advanced VPN server settings, click the **VPN Server** tab to configure broadcast support, authentication, MPPE Encryption, and Client IP address range.

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:

- 1. 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.

78	کناد	Logout Reboot	English 🔻
+	Quick Internet Setup	Operation Mode: <u>Wireless router</u> Firmware Version: SSID: <u>ASUS ASUS SG</u>	8 ⊕ ♦ ₫
<u></u>	Setup	General URL Filter Keyword Filter Network Services Filter	
	General		
品	Network Map	Firewall - Keyword Filter	
*	Guest Network	Keyword Filter allows you to block the clients' access to webpages containing the specified keywords. Limitations of the keyword filtering function :	
<u>*</u>	Traffic Manager	 Compressed webpages that use HTTP compression technology cannot be filtered. <u>See here f</u> Https webpages cannot be filtered. 	or more details.
D	Parental control	Basic Config	
R	USB application	Enable Keyword Filter Enabled Disabled	
~		Keyword Filter List	
	AiCloud	Keyword Filter List	Add / Delete
A	dvanced Settings		Ð
00	Wireless	No data in table.	
ដ	LAN	Αρρίγ	

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.



To set up a Network Service filter:

- 1. 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.
 - **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.
 - Access Point mode: In this mode, the router creates a new wireless network on an existing network.
- 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.
 - **WPS button behavior**: The physical WPS button on the wireless router can be used to activate WPS.
 - **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.
 - **Only allow specific IP**: 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:

- 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**.

IMPORTANT! 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

12	SUS	Logout	pot	English
4	Quick Internet Setup	Operation Mode: <u>Wireless router</u>	Firmware Version: SSID: <u>ASUS</u> <u>ASUS_SG</u>	8 6 🔶
		General Log DHCP leases Wireles	s Log Port Forwarding Routing Table	
	General			
L	Network Map	System Log - General Log		
\$	Guest Network	- This page shows the detailed system's act	vities. Sat, Jan 01 00:49:51 2011	
Ł	Traffic Manager	Uptime	0 days 0 hours 49 minutes 50 seconds	
ì	Parental control		com BCM4331 802.11 Wireless Controller 6.30.102. com BCM4360 802.11 Wireless Controller 6.30.102. entered promiscuous mode	
•	USB application	Jan 1 00:31:27 kernel: br0: port 2 Jan 1 00:31:27 kernel: wLc_phy_cal Jan 1 00:31:27 kernel: br0: port 2 Jan 1 00:31:27 kernel: br0: topolog	init_acphy: NOT Implemented eth1) entering learning state	
2	AiCloud	Jan 1 00:31:27 kernel: br0: port 2 Jan 1 00:31:27 kernel: device eth2 Jan 1 00:31:27 kernel: br0: port 3	<pre>(eth1) entering forwarding state entered promiscuous mode (eth2) entering listening state</pre>	
A	lvanced Settings	Jan 1 00:31:27 kernel: br0: port 3 Jan 1 00:31:27 kernel: device v10.3 Jan 1 00:31:27 kernel: br0: port 4 Jan 1 00:31:27 kernel: br0: topolog	Lentered promiscuous mode (w10.1) entering listening state	
lho	Wireless	Jan 1 00:31:27 kernel: br0: port 3 Jan 1 00:31:27 kernel: br0: port 4	(eth2) entering forwarding state (w10.1) entering learning state	
3	LAN	Jan 1 00:31:27 kernel: br0: port 4 Jan 1 00:31:39 dnsmasg-dhcp[510]: I Jan 1 00:31:39 dnsmasg-dhcp[510]: I	<pre>w10.1) entering forwarding state HCPREQUEST(br0) 192.168.1.60 c4:6a:b7:89:8f:97 HCPACK(br0) 192.168.1.60 c4:6a:b7:89:8f:97 andr</pre>	oid-b9d80832df634239
€	WAN	Jan 1 00:32:12 dnsmasg-dhcp(510): I Jan 1 00:33:08 dnsmasg-dhcp(510): I	<pre>HCPINFORM(br0) 192.168.1.197 10:bf:48:4c:b9:f0 HCPACK(br0) 192.168.1.197 10:bf:48:4c:b9:f0 LOO HCPREQUEST(br0) 192.168.1.189 b0:ec:71:ac:f7:96 HCPACK(br0) 192.168.1.189 b0:ec:71:ac:f7:96</pre>	
3	IPv6	Jan 1 00:33:34 dnsmasq-dhcp[510]: I	HCPREQUEST(br0) 192.168.1.3 3c:d0:f8:be:11:7d HCPACK(br0) 192.168.1.3 3c:d0:f8:be:11:7d iPhon	
\$	VPN Server	Clear	III Save Refresh	,
כ	Firewall		Save Reliesi	

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>
 - Windows Printer Utility v1.0.5.5 at <u>http://dlcdnet.asus.com/pub/</u> <u>ASUS/LiveUpdate/Release/Wireless/Printer.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.

To launch the Device Discovery utility:

From your computer's desktop, click
 Start > All Programs > ASUS Utility > RT-AC68U V4 Wireless
 Router > Device Discovery.

	RT-AC68	BU		-×
Device	SSID	IP Address	Subnet Mask	Printer
RT-AC68U	ASUS	192.168.1.1	255.255.255.0	ļ
	<u>C</u> ont	figure	<u>S</u> earch	<u>E</u> xit
Number of devic	ces found: 1			

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.

Eilename: Browse
Status
After locating the firmware file, click Upload.
<u>Upload</u> <u>Close</u>

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 RT-AC68U V4 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 4: Configuring the Advanced Settings** for more details.

5.3 Setting up your printer server

5.3.1 ASUS EZ Printer Sharing

ASUS EZ Printing Sharing utility allows you to connect a USB printer to your wireless router's USB port and set up the print server. This allows your network clients to print and scan files wirelessly.



NOTE: The print server function is supported on Windows® XP, Windows® Vista, Windows® 7 and Windows® 10.

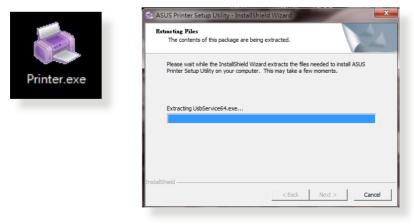
To set up the EZ Printer sharing mode:

- 1. From the navigation panel, go to **General** > **USB Application** > **Network Printer Server**.
- 2. Click Download Now! to download the network printer utility.



NOTE: Network printer utility is supported on Windows[®] XP, Windows[®] Vista, Windows[®] 7 and Windows[®] 10 only. To install the utility on Mac OS, select **Use LPR protocol for sharing printer**.

3. Unzip the downloaded file and click the Printer icon to run the network printer setup program.



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



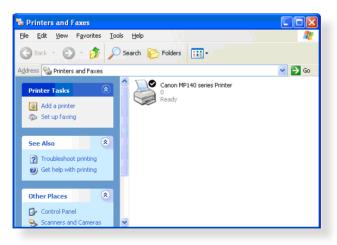
- 5. Wait a few minutes for the initial setup to finish. Click **Next**.
- 6. Click **Finish** to complete the installation.

Printer Setup Utility
You have connected to the following wireless router. Please follow Windows direction to install printer driver now.
IP Address: 192.168.1.1
Wireless Router: RT-AC68U
Please follow the Windows OS's directions to install printer driver.
Einish

7. Follow the Windows[®] OS instructions to install the printer driver.



8. After the printer's driver installation is complete, network clients can now use the printer.

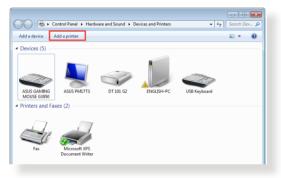


5.3.2 Using LPR to Share Printer

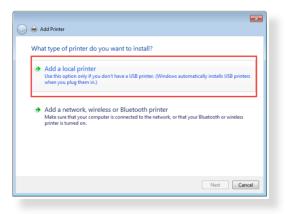
You can share your printer with computers running on Windows[®] and MAC operating system using LPR/LPD (Line Printer Remote/ Line Printer Daemon).

Sharing your LPR printer To share your LPR printer:

1. From the Windows[®] desktop, click **Start** > **Devices and Printers** > **Add a printer** to run the **Add Printer Wizard**.



2. Select Add a local printer and then click Next.



3. Select Create a new port then set Type of Port to Standard TCP/IP Port. Click New Port.

连 🖶 Add Printer	_ <u>×</u> _
Choose a printer port	
A printer port is a type of cor	nnection that allows your computer to exchange information with a printer.
Use an existing port:	LPT1: (Printer Port)
Oreate a new port:	
Type of port:	Standard TCP/IP Port
	·
	Next Cancel

4. In the **Hostname or IP address** field, key in the IP address of the wireless router then click **Next**.

🚱 🖶 Add Printer		•••
Type a printer hostnan	ne or IP address	
Device type:	TCP/IP Device	
Hostname or IP address:	192.168.1.1	
Port name:	192.168.1.1	
Query the printer and auto	matically select the driver to use	
		Next Cancel

- 5. Select **Custom** then click **Settings**.
 - Add Printer

 Additional port information required

 The device is not found on the network. Be sure that:

 The device is not found on the network. Be sure that:

 The device is not found on the network. Be sure that:

 The device is properly configured:
 The device is properly configured:
 The device is not contect, click Back to return to the previous page. Then correct the address is correct, select the device type below.

 Device Type
 Standard
 entric Network Card
 Custom
 Settings.

 Net
 Cancel
- 6. Set **Protocol** to **LPR**. In the **Queue Name** field, key in **LPRServer** then click **OK** to continue.

Port Name:	192.168.1.1
Printer Name or IP Addres	55: 192.168.1.1
Protocol	
Raw	LPR
Raw Settings	
Port Number:	9100
LPR Settings	
Queue Name:	LPRServer
LPR Byte Counting E	inabled
SNMP Status Enable	d
	public
Community Name:	
Community Name: SNMP Device Index:	1

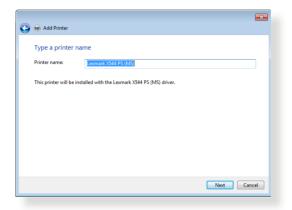
7. Click **Next** to finish setting up the standard TCP/IP port.

🕒 🌧 Add Printer	×
Additional port	information required
 The device is 1 The network i The device is The address o If you think the a 	s connected, orgophy configured. In the previous page is correct. Iddress in not correct, click Back to return to the previous page. Then correct the mm another sareh: on the network. If you are sure the address is correct, select the
Device Type Standard	Generic Network Card 👻
Custom	Settings
	Next Cancel

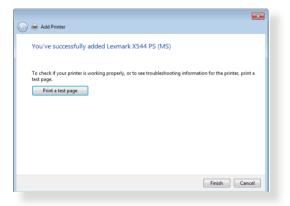
8. Install the printer driver from the vendor-model list. If your printer is not in the list, click **Have Disk** to manually install the printer drivers from a CD-ROM or file.

🌖 🖶 Add Pi	rinter		×
-		r from the list. Click Windows Update to see more models. from an installation CD, click Have Disk.	
		Pintes Pintes	•
		Next Cance	•

9. Click **Next** to accept the default name for the printer.



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



5.4 Download Master

Download Master is a utility that helps you download files even while your laptops or other devices are switched off.

NOTE: You need a USB device connected to the wireless router to use Download Master.

To use Download Master:

1. Click **General** > **USB application** > **Download Master** to download and install the utility automatically.

NOTE: If you have more than one USB drive, select the USB device you want to download the files to.

- 2. After the download process is finished, click the Download Master icon to start using the utility.
- 3. Click Add to add a download task.



4. Select a download type such as BitTorrent, HTTP, or FTP. Provide a torrent file or a URL to begin downloading.

NOTE: For details on Bit Torrent, refer to section **5.4.1 Configuring the Bit Torrent download settings**.

5. Use the navigation panel to configure the advanced settings.



5.4.1 Configuring Bit Torrent download settings

/ISUS		
Task	Bit Torrent Setting	
Task	Port	
Settings	Use the default port Suse the following port	
a >	Incoming port	
Seneral	Speed Limits:	
	Maximum download speed:	KB/S
Bit Torrent	Maximum upload speed:	KB/S
	BitTorrent Network setting	
Х NZB	BitTorrent protocol encryption	Encryption disabled
	Max peers allowed per torrent	100
	DHT network	Enable DHT to activate trackless torrent download.
		Apply

To configure BitTorrent download settings:

- 1. From Download Master's navigation panel, click **Bit Torrent** to launch the **Bit Torrent Setting** page.
- 2. Select a specific port for your download task.
- 3. To prevent network congestion, you can limit the maximum upload and download speeds under **Speed Limits**.
- 4. You can limit the maximum number of allowed peers and enable or disable file encryption during downloads.

5.4.2 NZB settings

You can set up a USENET server to download NZB files. After entering USENET settings, **Apply**.

/i5Li5			
Task	NZB Setting		
	Setup USENET server to download NZB files:		
Settings	USENET Server		
N.S	USENET Server Port	119	
General	Maximum download speed	KB/S	
Bit Torrent	SSL/TLS connection only		
2.2	User name		
NZB	Password		
	Confirm Password		
	Number of connections per NZB tasks	2	
		Apply	
			2011 ASUSTeK Computer Inc. All rights reserved.

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>https://www.asus.com/support/</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.

Quick Internet	Operation Mode: wireless router Firmware Version: 3.0.0.4.260 SSID: Asus Asus 🖉 🖗 🥌 🗉
setup	Operation Mode System Firmware Upgrade Restore/Save/Upload Setting
General	
品 Network Map	Administration - Firmware Upgrade
💦 Guest Network	Please visit the ASUS support site (http://support.asus.com) to get the latest firmware.
	Product ID RT-AC66U
Manager Traffic Manager	Firmware Version 3.0.0.4.260 Check
Parental control	New Firmware File
dis use application	Upload Note:
aiCloud	1. For a configuration parameter existing both in the old and new firmware, its setting will be kept during the upgrade process.
Advanced Settings	 In case the upgrade process fails, RT-AC68U enters the emergency mode automatically. The LED signals at the front of RT- AC66U will indicate such situation. Use the Firmware Restoration utility on the CD to do system recovery.
察 Wireless	
🚮 LAN	
💮 WAN	
🚳 IPv6	
VPN Server	
Firewall	
Administration	

- 2. If the latest firmware is available, visit the ASUS global website at <u>http://www.asus.com/Networks/Wireless_Routers/</u><u>RTAC68UV4/#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 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 mehtod, and password are correct.

Check if your network settings are correct.

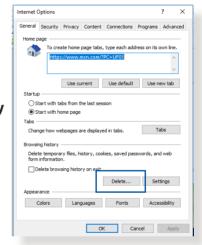
 Each client on the network should have a valid IP address. ASUS recommends that you use the wireless router's DHCP server to assign IP addresses to computers on your network. Some cable modem service providers require you to use the MAC address of the computer initially registered on the account. You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

/islis	Logout Rebo	ot	English 🔻
tyt Quick Internet	Operation Mode: <u>Wireless router</u> F	irmware Version: SSID: ASUS ASUS SG	8 6 4 8
Setup	LAN IP DHCP Server Route IPTV	Switch Control	
General	LAN - DHCP Server		
Hetwork Map		I) is a protocol for the automatic configuration used on IP ne	tworks The DHCD senar
Guest Network		forms the client of the of DNS server IP and default gateway	
Manager Traffic Manager	Basic Config		
Parental control	Enable the DHCP Server	⊙ Yes ● No	
USB application	Router's Domain Name		
USB application	IP Pool Starting Address		
AiCloud	IP Pool Ending Address	192.168.1.254	
Advanced Settings	Lease Time	86400	
🛜 Wireless	Default Gateway		
	DNS and WINS Server Setting		
uu	DNS Server		
💮 wan	WINS Server		
IPv6	Enable Manual Assignment		
VPN Server	Enable Manual Assignment	● Yes O No	
	Manually Assigned IP around the DHCP list(li	st limit:32) IP Address	Add / Delete
Firewall	NOVC address	IP Address	Abd / Delete
Administration		No data in table.	
System Log			
		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.

/ISUS	Logout Reboo	st English 💌
Quick Internet	Operation Mode: <u>Wireless router</u> F	irmware Version: SSID: ASUS ASUS_SG 🛛 🛔 🔁 🔶 🖻
	General WPS Bridge Wireless MA	C Filter RADIUS Setting Professional
General	Wireless - General	
Retwork Map	Set up the wireless related information below	<u>.</u>
Guest Network	Frequency	2.4GHz 💌
Yraffic Manager	SSID	ASUS
Parental control	Hide SSID	● Yes © No
discrete USB application	Wireless Mode	Auto 🗾 🖬 hig Protection
AiCloud	Channel bandwidth	20/40 мнz 🗸 Алто 🗸
	Authentication Method	Open System
Advanced Settings	WEP Encryption	None
~		Apply
💮 wan		
1Pv6		
VPN Server		
V Firewall		

- 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.

/15115	Logout Reboo	R. Contraction of the second se	English
Quick Internet	Operation Mode: Wireless router F	irmware Version: SSID: ASUS ASUS_SG	8 6 🔶
Setup	Operation Mode System Firmware L	Ipgrade Restore/Save/Upload Setting	
General	Administration - Restore/Save/Upl		
Retwork Map			
Suest Network	This function allows you to save current setti	ngs of Router to a file, or load settings from a file.	
	Factory default	Restore	
Traffic Manager	Save setting	Save	
Parental control	Restore setting	Upload Choose File No file chosen	
USB application			
osb application			
AiCloud			

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.

/1545	Logout	Reboot		En	glish 🔻
Quick Internet Setup	Operation Mode: Wir	eless router Firmware Ve	rsion: SSID: ASUS ASUS	<u>se</u> 8 (<u>n</u> 🔶 🖻
General	Parental control				
Hetwork Map		Parental control allows you to parental control:	set the time limit for a client's	network usage. 1	o use
🞎 Guest Network			lumn, select the client whose key in the clients MAC addre		
💒 Traffic Manager		Address] column. 2. In the [Add / Delete] col			
Parental control	OFF		ts in the [Time Management]	map. Drag and dr	op to
disb application		 Click [OK] to save the s <u>Click to open the tutor</u> 			
AiCloud		Clients Name	Clients MAC Address	Time	Add /
Advanced Settings			Clients MAC Address	Management	Delete
🛜 Wireless			ta in table.		
🔂 LAN		-	oply		
🕀 WAN		_			
IPv6					
VPN Server					
Firewall					
Administration					
System Log					
	Help & Support Man	nal I I fility	FAQ		Q

- 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
SSID (5GHz):	ASUS_5G

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®

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



- 3. 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 m se of manual settings, dis			
Automatically detect se	ettings		
Use automatic configur	ation script		
Address			
oxy server			
Use a proxy server for dial-up or VPN connecti		e settings	will not apply to
		e settings	will not apply to
dial-up or VPN connecti Address:	ions). Port:	80	7
dial-up or VPN connecti	ions). Port:	80	7
dial-up or VPN connecti Address:	ions). Port:	80	7

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.

		Loca	tion:	Automatic		;		
		s	how: E	uilt–in Ether	net	;		
		TCP/IP	PPPol	E AppleTa	lk Proxie	s Etherr	tet	
	_					-		
	- 63	server t	o confic	iure:	FTP Proxy	Server		_
	P Proxy b Proxy	(HTTP)		- 1			:	
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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®

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

Control Panel Home	View your basic network information and set up connections					
Change adapter settings	View your active networks					
Change advanced sharing settings	corpnet.asus Domain network	Access type: Internet Connections: Ethernet				
	Change your networking settings					
	Set up a new connection or r Set up a broadband, dial-up,	etwork or VPN connection; or set up a router or access point.				
	Troubleshoot problems Diagnose and repair network	problems, or get troubleshooting information.				

2. Click **Properties** to display the Ethernet Properties window.

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.

Ethernet Status		×							
		~							
General									
Connection									
IPv4 Connectivity:		Internet							
IPv6 Connectivity:	No networ	k access							
Media State:		Enabled							
Duration:		03:29:31							
Speed:		1.0 Gbps							
Details									
Details									
Activity									
Sent	Ду — ғ	Received							
Bytes: 71,424,646	70,	,727,241							
Properties Disable	Diagnose								
Ethernet Properties		×							
Mahmadatan kutu u									
Networking Authentication									
Connect using:									
Intel(R) Ethemet Connection (2) I219-V								
-									
	Config	gure							
This connection uses the following it	ems:								
QoS Packet Scheduler		^							
	Internet Protocol Version 4 (TCP/IPv4)								
Microsoft Network Adapter Multiplexor Protocol									
Microsoft LLDP Protocol Dr	iver								
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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.

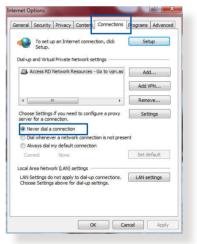
L	ocation: Automatic	•	
	Show: Built-in Ethernet	:	
TCP/	IP PPPoE AppleTalk Proxie	s Ethernet	
Configure IPv4:	Using DHCP	Ð	
IP Address:	192.168.182.103	Renew DHCF	Lease
Subnet Mask:	255.255.255.0 DHCP Clier		
Router:	192.168.182.250	(If required)	
DNS Servers:	192.168.128.10		(Optional)
Search Domains:			(Optional)
IPv6 Address:	fe80:0000:0000:0000:0211:24ff:fe	e32: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 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

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 http://csr.asus.com/english/ REACH.htm.

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.

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.

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 and your body.

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; Ch1~14 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.

Canada, Industry Canada (IC) Notices

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

This device is for indoor use only when operated in the frequency band 5150 ${\sim}5250$ MHz.

Radio Frequency (RF) Exposure Information

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This device has been certi ed for use in Canada. Status of the listing in the Industry Canada's REL (Radio Equipment List) can be found at the following web address:

http://www.ic.gc.ca/app/sitt/reltel/srch/nwRdSrch.do?lang=eng Additional Canadian information on RF exposure also can be found at the following web

http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08792.html

Canada, avis d'Industry Canada (IC)

CLe présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Ce dispositif est limité à une utilisation en intérieur seulement dans la bande 5150-5250 MHz.

Informations concernant l'exposition aux fréquences radio (RF)

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.

Ce périphérique a été évalué et démontré conforme aux limites SAR (Speci c Absorption Rate – Taux d'absorption spéci que) d'IC lorsqu'il est installé dans des produits hôtes particuliers qui fonctionnent dans des conditions d'exposition à des appareils portables (les antennes se situent à moins de 20 centimètres du corps d'une personne).

Ce périphérique est homologué pour l'utilisation au Canada. Pour consulter l'entrée correspondant à l'appareil dans la liste d'équipement radio (REL - Radio Equipment List) d'Industry Canada rendez-vous sur:

http://www.ic.gc.ca/app/sitt/reltel/srch/nwRdSrch.do?lang=eng

Pour des informations supplémentaires concernant l'exposition aux RF au Canada rendezvous sur : http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08792.html

This radio transmitter IC: 3568A-RTACIB00 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Cet émetteur radio IC: 3568A-RTACIB00 a été approuvé par Industrie Canada pour fonctionner avec les types d'antennes énumérés ci-dessous avec le gain maximal admissible et impédance d'antenne requise pour chaque type d'antenne indiqué. Types d'antennes n'est pas inclus dans cette liste, ayant un gain supérieur au gain maximal indiqué pour ce type, sont strictement interdits pour une utilisation avec cet appareil.

Antenna List:

No.	Manufacturer	Model No.	Antenna Type	Peak Gain
1	PSA	RFDPA141000SBLB827	Dipole	2GHz:1.33dBi / 5GHz:1.85dBi
2	PSA	RFDPA161300SBLB804	Dipole	2GHz:1.32dBi / 5GHz:1.73dBi
3	WHA YU	C660-510509-A	Dipole	2GHz:1.22dBi / 5GHz:1.49dBi
4	WHA YU	C660-510389-A	Dipole	2GHz:1.33dBi / 5GHz:1.85dBi

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain (1.33dBi for 2412 to 2462MHz, 1.57dBi for 5180 to 5240MHz, and 1.85dBi for 5745 to 5825MHz) approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

En vertu de la réglementation de l'industrie du Canada, cet émetteur de radio ne peuvent fonctionner en utilisant une antenne d'un type et maximum (ou moins) Gain (1.33dBi for 2412 to 2462MHz, 1.57dBi for 5180 to 5240MHz, and 1.85dBi for 5745 to 5825MHz) approuvé pour l'émetteur par Industrie Canada. pour réduire risque d'interférence aux autres utilisateurs, le type d'antenne et son gain doivent être choisis de sorte que la puissance isotrope rayonnée équivalente (PIRE) ne dépasse pas ce qui est nécessaire pour la réussite de communication.

User should also be advised that:

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to cochannel mobile satellite systems;

(ii) the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate. High-power radars are allocated as primary users (i.e. priority users) of the band 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Les utilisateurs devraient aussi être avisés que

(i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux; (ii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

De plus, les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bande 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

Para maiores informações, consulte o site da ANATEL: <u>www.anatel.</u> <u>gov.br</u>

Условия эксплуатации:

- Температура эксплуатации устройства: 0-40 °С. Не используйте устройство в условиях экстремально высоких или низких температур.
- Не размещайте устройство вблизи источников тепла, например, рядом с микроволновой печью, духовым шкафом или радиатором.
- Использование несовместимого или несертифицированного адаптера питания может привести к возгоранию, взрыву и прочим опасным последствиям.
- При подключении к сети электропитания устройство следует располагать близко к розетке, к ней должен осуществляться беспрепятственный доступ.
- Утилизация устройства осуществляется в соответствии с местными законами и положениями. Устройство по окончании срока службы должны быть переданы в сертифицированный пункт сбора для вторичной переработки или правильной утилизации.
- Данное устройство не предназначено для детей. Дети могут пользоваться устройством только в присутствии взрослых.
- Не выбрасывайте устройство и его комплектующие вместе с обычными бытовыми отходами.

Перелік режимів роботи для України:

- 2,4ГГц: 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40), 802.11ax(VHT20), 802.11ac (VHT40), 802.11ax (HE20), 802.11ax (HE40)
- 5ГГц: 802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80), 802.11ac(VHT160), 802.11ax(HE20), 802.11ax(HE40), 802.11ax(HE80), 802.11ax(HE160)

Частота, режим і максимальна випромінювана потужність для України:

2402–2480 МГц (BR/EDR): 5,82 дБм;

2402-2480 МГц (LE): 5,59 дБм;

2412–2472 МГц: 19,98 дБм;

5180-5240 МГц: 19,98 дБм,

5260-5320 МГц: 19,98 дБм;

5500-5670 МГц: 19,98 дБм,

Пристрій призначено для використання тільки у приміщенні.

https://certificates.asus.website/wl/



הוראות בטיחות לשימוש במוצר

יש לפעול ע"פ כללי הבטיחות הבאים בעת שימוש במוצר:

- ודא שלמות ותקינות התקע ו/או כבל החשמל.
- . אין להכניס או להוציא את התקע מרשת החשמל בידיים רטובות.

באם המוצר מופעל ע"י מטען חיצוני, אין לפתוח את המטען, במקרה של בעיה כלשהי, יש לפנות למעבדת השירות הקרובה. • יש להרחיק את המוצר והמטעו מנוזלים.

במקרה של ריח מוזר, רעשים שמקורם במוצר ו/או במטען/ספק כוח, יש לנתקו מיידית מרשת החשמל ולפנות למעבדת שירות.

המוצר והמטען/ספק כוח מיועד לשימוש בתוך המבנה בלבד, לא לשימוש חיצוני ולא לשימוש בסביבה לחה. • אין לחתוך, לשבור, ולעקם את כבל החשמל.

אין לחונון , לשבור, ולעקם את כבל החשמל.

אין להניח חפצים על כבל החשמל או להניח לו להתחמם יתר על המידה, שכן הדבר עלול לגרום לנזק, דליקה או התחשמלות. • לפני ניקוי המוצר ו/או המטען יש לנתקו מרשת החשמל.

- , לפני ניקוי המוצר ו/או המטען יש לנונקו מרשת החשמל
- יש לאפשר גישה נוחה לחיבור וניתוק פתיל הזינה מרשת החשמל •
- יש להקפיד ולתחזק את התקן הניתוק במצב תפעולי מוכן לשימוש אזהרה: -
- אין להחליף את כבל הזינה בתחליפים לא מקוריים, חיבור לקוי עלול לגרום להתחשמלות המשתמש.

בשימוש על כבל מאריך יש לוודא תקינות מוליך הארקה שבכבל.

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 https://www.asus.com/Networking/RTAC68U/HelpDesk_Declaration/.

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), 802.11ac (VHT20), 802.11ac (VHT40)

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5GHz: 802.11a, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20), 802.11ac (VHT40), 802.11ac (VHT80)
```

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

2400-2483.5MHz(1-13): OFDM: 19.91dBm(97.9mW); CCK:

18.16dBm(65.4mW)

5150-5250MHz (36-48): 22.88dBm(194mW)

5250-5350MHz (52-64): 22.82dBm(191mW)

5470-5725MHz (100-140): 29.90dBm(977mW)

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

The adapter shall be installed near the equipment and shall be easily accessible.

	AT	BE	BG	CZ	DK	EE	FR
	DE	IS	IE	IT	EL	ES	CY
	LV	LI	LT	LU	HU	MT	NL
	NO	PL	PT	RO	SI	SK	TR
	FI	SE	CH	UK	HR	UA	

Safety Notices

- Use this product in environments with ambient temperatures between 0°C(32°F) and 40°C(104°F).
- Refer to the rating label on the bottom of your product and ensure your power adapter complies with this rating.
- DO NOT place on uneven or unstable work surfaces. Seek servicing if the casing has been damaged.
- DO NOT place or drop objects on top and do not shove any foreign objects into the product.
- DO NOT expose to or use near liquids, rain, or moisture. DO NOT use the modem during electrical storms.
- DO NOT cover the vents on the product to prevent the system from getting overheated.
- DO NOT use damaged power cords, accessories, or other peripherals.
- If the Adapter is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.
- To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.

NCC 警語

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Version 2, June 1991

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