User Guide

RT-AC66U

Dual Band 3x3 802.11AC Gigabit Router





E7891 Second Edition January 2013

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1 Getting to know your wireless router

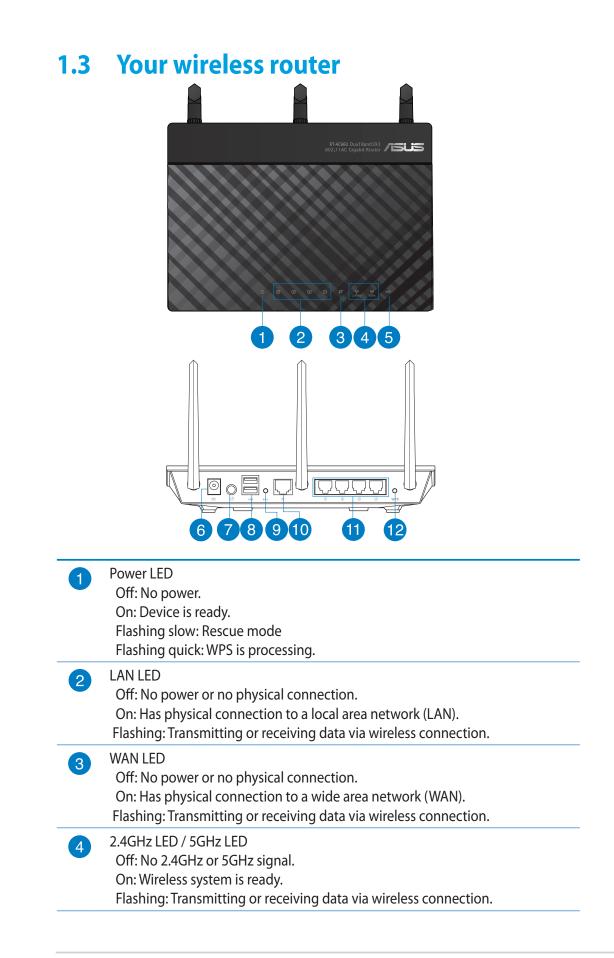
1.1 Welcome!

Thank you for purchasing an ASUS RT-AC66U Wireless Router! The ultra-thin and stylish RT-AC66U 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% power-saving solution.

1.2 Package contents

☑ RT-AC66U Wireless Router
 ☑ Power adapter
 ☑ Support CD (Manual, utility software)
 ☑ Stand
 ☑ Stand
 ☑ Network cable (RJ-45)
 ☑ Quick Start Guide
 ☑ Warranty card

- 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.



5	USB LED Off: No power or no physical connection. On: Has physical connection to USB devices.
6	Power (DC-IN) port Insert the bundled AC adapter into this port and connect your router to a power source.
7	Power button Press this button to power on or off the system.
8	USB 2.0 ports Insert USB 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.
9	Reset button This button resets or restores the system to its factory default settings.
10	WAN (Internet) port Connect a network cable into this port to establish WAN connection.
1	LAN 1 ~ 4 ports Connect network cables into these ports to establish LAN connection.
12	WPS button This button launches the WPS Wizard.

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

DC Power adapter	DC Output: +19V with max 1.58A current;				
Operating Temperature	0~40oC	Storage	0~70oC		
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:

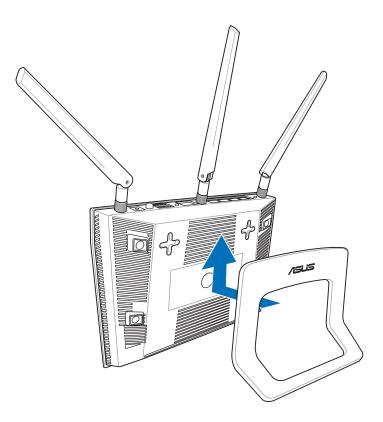
- Place the wireless router in a centralized area for a maximum wireless coverage for the network devices.
- Keep the device away from metal obstructions and away from direct sunlight.
- To prevent signal interference or loss, keep the device away from 802.11g or 20MHz only Wi-Fi devices, 2.4GHz computer peripherals, Bluetooth devices, cordless phones, transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators, and other industrial equipment.
- To ensure the best wireless signal, orient the three detachable antennas as shown in the drawing below.



Mounting to the stand

To mount to the stand:

• Align and insert the stand's mounting hooks to the wireless router's mounting holes.



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.

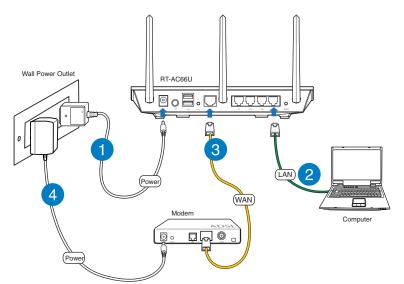
1.6 Router Setup

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:

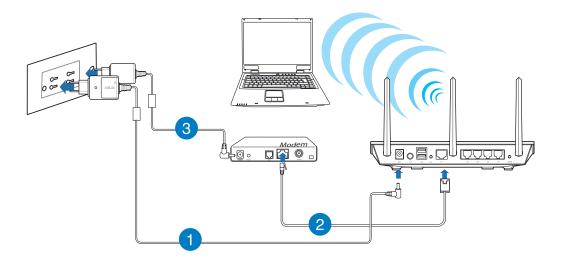
1. Insert your wireless router's AC adapter to the DC-IN port and plug it to a power outlet.

2. Using the bundled network cable, connect your computer to your wireless router's LAN port.

IMPORTANT! Ensure that the LAN LED is blinking.

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

1.6.2 Wireless connection



To set up your wireless router via wireless connection:

- 1. Insert your wireless router's AC adapter to the DC-IN port and plug it to a power outlet.
- 2 Using the bundled network cable, connect your modem to your wireless router's WAN port.

- 3. Insert your modem's AC adapter to the DC-IN port and plug it to a power outlet.
- 4. Install an IEEE 802.11a/b/g/n/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**
- 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.



Top command buttons

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.

	flag=detect - Windows Internet Explorer		- ē X
🕖 🗣 🙋 http://192.168.1.1/QIS_	wizard.htm?flag=detect	👻 😽 🗙 🔎 Bing	+ م
Favorites 🛛 🙀 🕖 Suggested Sites	s 🔻 🕖 Web Slice Gallery 🔫		
Connecting		🟠 💌 🔝 👻 📾 🖶 Pa	age 🔻 Safety 🔻 Tools 👻 🔞 👻 🎽
	Windows Security The server 192168.1.1 at RT-AC66U requires test in an insecure manner (basic authenticati connection). admin Remember my credentia	sername and password be on without a secure	
			12:29 AM
🤊 🏉 🤗 📀			

- 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.

NOTES:

- The auto-detection of your ISP connection type takes place when you configure the wireless router for the first time or when your wireless router is reset to its default settings.
- If QIS failed to detect your Internet connection type, click Skip to manual setting and manually configure your connection settings.

for Automatic IP (DHCP)

Quick Internet Setup	Automatic IP connection sets	ip		
Check Connection	Host Name(optional): MAC Address(optional)	* 1	MAC Clone	
Router Setup	device in the net services, and wo you can do eithe Contact your EP subscription. On Clone or change original device. It from its label. If	work: SPS monitor the MAC add uid dicallow internet connection of the following: and request to update the MAG ce this is done, you can run the the MAC address of the new di Ho MAC address of the new di you just replaced an old route you previously connected your uter's MAC address or click "M	Edentifier that identifies your contresses of devices that connect to for new MAC addresses. To fix the "address associated with your ESF router's setup wizard again. were to match the MAC address of your will find the old router's MAC clone" to clone your computer to the modem, you will AC Clone to clone your computer to the dest of the dest o	their is issue, of the IC address need to

for PPPoE

	No. CONTRACTOR				
Quick Internet Setup	Account Setting				
Check Connection	Please enter the re	quired i	infor	mation below.	
Internet Setup	User Name				
3 Router Setup	Password				
				Chow password	
	Obtain the account r	name an	nd pa	saword from your ISP.	
_			C	Previous Next	

for Static IP

Quick Internet Setup	Please refer to your ISP setting	, and	d input the related	information.		
	-Use the following IP address					
Check Connection	IP Address		0.0.0.0			
2 Internet Setup	Subnet Mask	7	0.0.0.0			
anternet semp	Default Gateway	2	0.0.0.0			
Router Setup	DNS Servers					
	DNS Server1	2				
	DNS Salver2	2				
	MAC Address(optional)	4			MAC Clone	

for PPTP and L2TP

Juick Internet Setup	Account Setting					
Check Connection	Please enter the re	quired i	nformation b	slow.		
Dinternet Setup	User Name					
Router Setup	Password		x			
			Show	assword		
	Obtain the account r	name an	d password fr	om your ISF		
			Previou		Next	

3. Assign the wireless network name (SSID) and security key for your 2.4GHz and 5 GHz wireless connection. Click **Apply** when done.

/SUS	1000		
Quick Intetnet Setup	Wireless Setting		٢
Check Connection	Assign a unique name o	or SSID (Service Set Identifier) to help identify your wireles	s network.
Internet Setup	2.4GHz - Security		
Router Setup	Network Name(SSID) Security Key	2 ASUS	
	5GHz - Security	Copy 2.4GHz to 5GHz settings.	_
	Network Name(SSID)		
	Security Key		
		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 Sun	netrary		
Quick Internet Setup	System Time: Sat, Jan 01 0	00:02:51 2011 Change the time zong		
Check Connection	Wireless (240Hz)			
	Network Name(SSID)	ASUS-mankey		
🕐 Internet Setup	Wireless Security	Open System		
~				
3) Router Setup	Network Name(SSD)	ASUS_5C-monikey		
	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		

2.3 Connecting to your wireless network

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

To connect to your network:

- 1. On your computer, click the network icon in the notification area to display the available wireless networks.
- 2. Select the wireless network that you want to connect to, then click **Connect**.
- 3. You may need to key in the network security key for a secured wireless network, then click **OK**.
- 4. Wait while your computer establishes connection to the wireless network successfully. The connection status is displayed and the network icon displays the connected and 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 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 2.0 ports for connecting USB devices or USB printer, to allow you to share files and printer with clients in your network.

NOTES:

 To use this feature, you need to plug a USB storage device, such as a USB hard disk or USB flash drive, to the USB 2.0 port on the rear panel of your wireless router. Ensure that the USB storage device is formatted and partitioned properly. Refer to the Plug-n-Share Disk Support List at

http://event.asus.com/networks/disksupport

• 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.
- On USB External HDD/Flash disk:
- 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**.
- 2. In the upper right corner, click \leq > Eject USB disk. When the USB disk is ejected successfully, the USB status shows Unmounted.



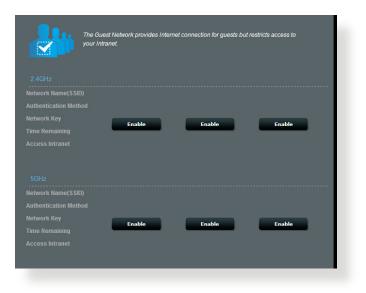
3.2 Creating a Guest Network

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-AC66U 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.



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

Guess Network			
	est network can provide interne I network.	connectivity for temporary visitor	s without accessing your
	ASUS_Guesr1		
	Open System		
	None	Create	Create
	Lindess		
	att		
	Modify		
	ASUS_50_Ouest1		
	Open System		
	None	Create	Create
	Lundess		
	Medify		

- 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**.

Using the Traffic Manager 3.3

3.3.1 Managing QoS (Quality of Service) Bandwidth

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

NOTES:

- The default rule sets online gaming and web surfing as the highest priority and are not influenced by P2P applications (peer-to-peer applications such as Bit Torrent).
- If QoS is turned off, the P2P (peer-to-peer) applications will be given the top priority to use the upload and download bandwidths. If a P2P application is used, you may encounter some lag during web surfing.

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 table on the screen below 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 dropdown list on the upper-right corner.

Downloaded from www.Manualslib.com manuals search engine

Setup						
	QoS Traffic Monitor					
General	Traffic Manager - (205			Automatic mo	de
Network Map	Traine Manager - (The Quality of Service (QoS)				
Guest Network	ANNUL A	sets online gaming and web P2P applications (peer-to-pe	surfing as the highest p er applications such as	priority and are n BitTorrent). To e	ot influenced by nable QoS	
🖉 Traffic Manager		function, Click the QoS slide fields. Get the bandwith info If you want to prioritize speci	mation from your ISP. fic network application:			
Parental control		preferred priority from the Use <u>QoS FAQ</u>	r-defined QoS rules.			
USB application	QoS		OFF			
A iCloud			Save			
Advanced Settings						
Wireless	User Specify Rule I	List	_	_		_
•	Service Name	Source IP or MAC	Destination Port	Protocol	Transferred	Priority
	Web Surf		80	tcp	0~512	Highest
🔁 WAN	нттр 5		443	tcp	0~512	Highest
	File Transfer		80	tcp	512~	Low
DV6						

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

• 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 low-priority 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.

Secup	QoS Traffic Monito	ar .							
General	Traffic Manag	er - Traffic Monitor			Real-time 🚽				
Network Nap	Traffic Monitor allows you to monitor the incoming or outgoing packets of the following.								
Guest Network		Internet	Wired	Wireless					
Manager	Reception		liscoming packets from wired network	incoming packets network	from wireless				
Parental control	Transmission	Outgoing Internet packets	Outgoing packets from wired network	oulgoing packets from wireless network					
USB application		e internet are evenly transmitted to	the wired and wireless devices.						
â AiCloud	Traffic Monitor FAQ	ed Wireless (2.4GHz)	Wireless (5GHz)						
Advanced Settings	36.62 KB/s			Tue O	4:52 am / 12.24 KB/s				
察 Wireless	25.63 KB/s								
	25.63 Kb/5								
0 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 кал	5976				
	Transmission	0.00 кан	0.00 kala	0.31 kale	1920				
	Help & Support	<u>Manual</u> <u>Utility</u>	FAQ	(A				

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 Setup	Operation Mode: <u>Wi</u> SSID: <u>ASUS</u> <u>ASUS</u>	i <mark>reless router</mark> Firmware Version: <u>SC</u>	<u>3.0.0.4.260</u>	8	9 4 B		
General	Parental contro	J					
Retwork Map			u to set the time limit for a client's	network usage.	To use		
		parental control:					
🕵 Guest Network		1. In the [Olients Name	e] column, select the client whose	network usage	you want		
			also key in the clients MAC addr	ess in the [Client	s MAC		
🌿 Traffic Manager		Address] column. 2 In the [Arid / Delate	column, click the Edit icon.				
			limits in the [Time Management] m	ap. Drag and dro	p to		
Parental control		desired day/time.					
USB application		 Click [OK] to save Click to open tuto 					
AiCloud				Time			
		Cilents Name	Clients MAC Address	Management	Add / Delete		
Advanced Settings	2			-	Ð		
🛜 Wireless	No data in table.						
м ^{- ти}			Apply				

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 🕑 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.

distribution				to open tutoria		.		
AiCloud	Active sche	dule	_		_	_	_	
	System Time	e		Sat, Jai	n 1 03:22:42	2011		
Advanced Settings	Client			192.168.1	1.61			
察 Wireless		Sun	Mon	Tue	Wed	Thu	Fri	Sat
	12 am							
	1 am							
CD .	2 am							
🜐 WAN	3 am							
-	4 am							
🚳 IP v6	5 am							
-	6 am							
VPN Server	7 am							
~	8 am							
Tirewall	9 am							8
×	10 am							
A dministration	11 am							
-	12 pm							
System Log	1 pm							
	2 pm							
	3 pm							
	4 pm							
	5 pm							
	6 pm							
	7 pm							
	8 pm		=					
	9 pm							
	10 pm							
	11 pm							
				Cancel	ок			

- 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 SB 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.

General		2	3)		
😹 Guest Network	My FTP server is sh	nared.: Decide how to share your folders	s.		
Parental control	limitless access rights	5			
usb application	 Iimited access rights admin rights 				
AiCloud	Account	Password	Read	Write	
Advanced Settings	admin		M	M	
🛜 Wireless	Family	Family			
💮 wan		Previous Next			

 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	$\bigcirc \bigcirc $
Retwork Map	
Guest Network	Create your domain name via the ASUS DDNS services.
🚧 Traffic Manager	O I will use the service and accept Terms of service
Parental control	tëstesuscomm.com
USB application	Disable DDNS.
AiCloud	
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

The 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-AC66U's network.

Setup	Media Server Network Place(Samba) Shar	e / Cloud Disk FTP Share Miscella	neous setting
General Network Map	Media Server Set up the DLNA, iTunes, FTP and Network Place (S	amba) server.	•
K Guest Network	Enable DLNA Media Server	ON	
Yraffic Manager	Enable iTunes Server?	OFF	
Parental control	Media server directory	/tmp/mnt	Apply
USB application	Media Server Status	Idle	
AiCloud	1 House		
Advanced Settings	1/5		
🖒 LAN		U L L L L L L L L L L L L L L L L L L L	
💮 wan	Ψ		
🚳 IPv6		Digital f	/ledia Player
VPN Server			
V Firewall	Digital Media Server		
A dministration	LAN LON		
📝 System Log	No State	Digital I	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.

/ISUS RT-AC66U	Logout	Reboot		English
Quick Internet	Operation Mode: Wireless ro SSID: ASUS ASUS_5G	uter Firmware Version: 3.0	.0.4.260	8 6 🔶 🛙
- Scrup	Media Server Network Place(Samba) Share / Cloud Disk F	-TP Share Miscellaneous se	tting
General				
品 Network Map	USB Application - Networl		oud Disk	
Guest Network	Set the account and permission of	network place(samba) service.		
Guest Network	Enable Share	Share with ac	count Re	fresh page
Manager Traffic Manager	$\Theta \cap \Theta$			
Parental control				
	admin R	T-AC66U	R/W R	No
USB application				
AiCloud				
			ViqqA	
Advanced Settings				
🤿 Wireless				

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.

New account has no read/w	rite access rights.
Account:	
Password:	
Retype password:	
	Add

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.

Add new folder in sda	an Sharaan waa ka
The default access rights read/writ	
Folder Name:	Shine with a second
	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.



To use FTP Share service:

NOTES: 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	Operation Mode: <u>Wireless router</u> Firmware Version: <u>3.0.0.4.260</u> SSID: <u>ASUS ASUS 56</u>				8 6 4 8
Setup	Media Server Network Place(Saml	edia Server Network Place(Samba) Share / Cloud Disk FTP Share Miscellaneous setting			
General					
Hetwork Map	USB Application - Miscellaneo				
😹 Guest Network	Maximum Login User	5			0
🚧 Traffic Manager	Device Name				
Parental control	Work Group	WORKGROUP			
USB application	Character set on FTP Server	UTF-8	-		
AiCloud		Арр	bly		

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-AC66U 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-AC66U to allow Internet access.

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

Quick Internet	Operation Mode: <u>Wireless router</u> Fi SSID: <u>ASUS ASUS_5G</u>	imware Version: <u>3.0.0.4.260</u> 용 두 요
General	USB Modem	$\overline{\mathbf{S}}$
Retwork Map	The current 3G/4G setting is set to 3G/4G Ba turn to 3G/4G mode.	ackup mode. If WAN port was disconnected, the network mode will automatically
🖧 Guest Network	Basic Config	
Manager Traffic Manager	Enable USB Modem	© Yes ● No
A	Location	Manual 🗸
Parental control	USB Modem	WCDMA (UMTS)
USB application	APN service(optional)	internet
AiCloud	Dial Number	*99#
	PIN code	
Advanced Settings	Username	
🛜 Wireless	Password	
😭 LAN	USB Adapter	auto
💮 WAN		Apply

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 settings to take effect.

3.6 Using AiCloud

AiCloud 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 aspp 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>https://www.asusnetwork.net</u> and enter the router login account and password. For better user experience, we recommend that you use **Google Chrome** or **Firefox**.

AiCloud × ←	32	<u>- • ×</u>
	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.

AiCloud × ← ⇒ C n Schanner-n66u.asus	comm.com:8082	_	_	_		- • ×
AiCloud		lcome home, a	dmin			()
	/ RT-N66U / 1234 /	/ movie			\odot \oplus	(7)
↔ RT-N66U 및 CHANNER-AIR-2(Of	۲					
🖵 NAS-M25	Back	20120209	20120214	20120215		
	20120222		20120207			
00						
					Language: Eng	glish 💌

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.

	rstem) is a service that allows network clients to connect h its registered domain name. The wireless router is emb	
	a private WAN IP address (192.168.x.x, 10,x,x,x, or 172 NAT environment and DDNS service cannot work in this e	
Enable the DDNS Client	© Yes ● No	
Enable the DDNS Client	© Yes ● No	asuscomm

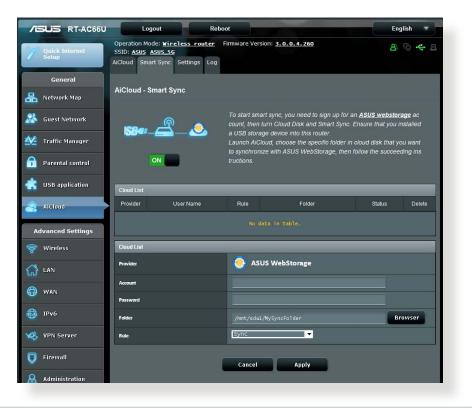
3.6.3 Smart Sync

To use Smart Sync:

- 1. Launch AiCloud, click **Smart Sync** > **Go**.
- 2. Select **ON** to enable Smary Sync.

TSUS RT-AC66U	Logout	Reboo	e 📄		Enç	jlish 🔻
Quick Internet Setup	Operation Mode: <u>Wirel</u> SSID: <u>ASUS ASUS_SG</u> AiCloud Smart Sync S	<u>ess router</u> Fi iettings Log	rmware Version:	<u>3.0.0.4.260</u>	ප	i 🕂 🖪
General						
品 Network Map	AiCloud - Smart Syn	IC				
😹 Guest Network	\$3 @		count, then turn	nc, you need to sign up fo Cloud Disk and Smart Syn		Contraction of the local diversion of the local diversion of the local diversion of the local diversion of the
Manager Traffic Manager	••••••••••••••••••••••••••••••••••••••		Launch AiCloud	levice into this router. choose the specific folder ith ASUS WebStorage, the		
Parental control	ON		tructions.	na Abbo Webbiologe, inc		ang no
usb application	Cloud List		_	_	-	
AiCloud	Provider Us	er Name	Rule	Folder	Status	Delete
Advanced Settings			No data	in table.		
察 Wireless			Add nev	v account		

- 3. Click Add new account.
- 4. Enter your ASUS WebStorage account password and select the directory that you want to sync with WebStorage.



4 Configuring the Advanced Settings

4.1 Wireless

4.1.1 General

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

Setup General	General WPS Bridge Wireless M	AC Filter RADIUS Setting Professional	
占 Network Map	Wireless - General		
	Set up the wireless related information belo	w.	
Guest Network	Frequency	2.4GHz 🔻	
🚈 🛛 Traffic Manager	SSID		
Parental control	Hide SSID	● Yes © No	
USB application	Wireless Mode	auto 🔽 b/g Protection	
	Channel bandwidth	20/40 MHz -	
AiCloud	Control Channel	Auto 🔻	
Advanced Settings	Authentication Method	Open System 🔻	
Wireless	WEP Encryption	None	
S LAN		Apply	

To configure the basic wireless settings:

- 1. 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.
 - **Nonly** Select **Nonly** 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.

NOTE: Ensure that the devices support WPS.

++++	Quick Internet Setup	Operation Mode: <u>Wireless router</u> SSID: <u>ASUS</u> <u>ASUS_56</u>	Filliware version: <u>3.U.U.4.200</u>	<u>8</u> ⊡ < ≞
-	Setup	General WPS Bridge Wireless N	AC Filter RADIUS Setting Professional	
	General			
品	Network Map	Wireless - WPS		
*	Guest Network	the PIN code or the WPS buttton.	y and secure establishment of a wireless network. You can	conngure WPS here via
₩.	Traffic Manager	Enable WPS	ON	
ß	Parental control	Current Frequency Connection Status	2.4GHz	
*	USB application	Configured	Yes	
<u>a</u>	AiCloud	AP PIN Code	72013502	
Ac	dvanced Settings	You can easily connect a WPS client to th	e network in either of these two ways:	
(00	Wireless	WPS button on the client's WLAN a		
	LAN	code field and click Start. Please ch	ess and get the client PIN code. Enter the client's PIN code eck the user manual of your wireless client to see if it support not support the WPS function, you have to configure the wir	orts the WPS
٢	WAN		D), and security settings as this router.	cross chert mandany
	IPv6		Push Button O Client PIN Code	
×\$	VPN Server	WPS Method	Start	

To enable WPS on your wireless network:

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

Note: WPS supports authentication using Open System, WPA-Personal, 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 P**ush 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 setup 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.

wick Internet		n Mode: <u>Wirele</u> s <u>US_ASUS_SG</u>	<u>ss router</u> Firmware	Version: <u>3.0.0.4</u> .	.260	
Setup	General	WPS Bridge	Wireless MAC Filter	RADIUS Setting	Professional	
General						
品 Network Map	Wireless	s - Bridge				
Guest Network	WDS may	also be considere		ith this method, the e	Ir RT-AC66U to connect to a devices connected to the ac	
🚧 Traffic Manager	To enable	WDS to extend th	e wireless signal, please	follow these steps:		
Parental control	2. Sel	ect [WDS Only] o	port [Open System/NONE r [Hybrid] mode and add M ess router and the AP you	MAC address of APs		ethod.
dis USB application		y in the remote AP ter's MAC address		st and open the remo	te AP's WDS management	nterface, key in the this
AiCloud		i are currently usin IAC) 10.BF 48 D8 4	ig the Auto channel. Click 9.78			
Advanced Settings	(5GHz MA	C) 10:BF:48:D8:49:	7C	_	_	
🛜 Wireless	Frequenc		2.4GF	iz 🔻		
🚮 LAN	AP Mode		AP Or	ily 🔻		
💮 wan	Connect t	o APs in list	• Yes	O No		
	Remote A	AP List		_		
🤯 IPv6			Remote AF	^o List		Add / Delete
VPN Server				•		Ð
🗍 Firewall						
Administration				Apply		

To set up the wireless bridge:

- 1. 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 (1) to enter the MAC address of other available Access Points.

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

7. Click **Apply**.

4.1.4 Wireless MAC Filter

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

+**	Quick Internet Setup	Operation Mode: <u>Wireless router</u> Firmware Version: <u>3.0.0.4.260</u> SSID: <u>ASUS ASUS 56</u> General WPS Bridge Wireless MAC Filter RADIUS Setting Professional	& ⊡ ← ₫
品	General Network Map	Wireless - Wireless MAC Filter	
*	Guest Network	Wireless MAC filter allows you to control packets from devices with specified MAC address in your Wire Basic Config	eless LAN.
*	Traffic Manager	Frequency 2.4GHZ MAC Filter Mode Disabled	
	Parental control	MAC filter list	
	USB application	MAC filter list	Add / Delete
<u></u>	AiCloud		Ð
		No data in table.	
Ac	dvanced Settings Wireless	Apply	

To set up the Wireless MAC filter:

- 1. From the navigation panel, go to **Advanced Settings** > **Wireless** > **Wireless MAC Filter** tab.
- 2. Select the frequency band that will be used 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	Operation Mode: <u>Wireless router</u> Firmware Version: <u>3.0.0.4.260</u> SSID: <u>ASUS ASUS 5G</u>	& ⊡ + ⊑
Setup	General WPS Bridge Wireless MAC Filter RADIUS Setting Professional	
General		
品 Network Map	Wireless - RADIUS Setting	
Guest Network	This section allows you to set up additional parameters for authorizing wireless clients through RADIU you select "Authentication Method" in "Wireless - General" as "WPA-Enterprise/ WPA2-Enterprise/	
Manager Traffic Manager	Frequency	
A	Server IP Address	
Parental control	Server Port 1812	
usb application	Connection Secret	
AiCloud	Apply	
Advanced Settings		
🛜 Wireless		

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.

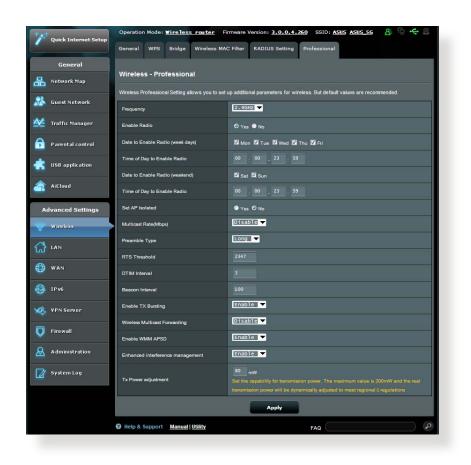
NOTE: Please refer to the **Wireless - General** section for configuring your wireless router's Authentication Mode.

- 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.



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

- **Frequency**: Select which frequency band 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 3 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.

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	Operation Mode: Wireless router F SSID: ASUS ASUS 5G	irmware Version: <u>3.0.0.4.260</u>	© ↔ ₫
Jecup	LAN IP DHCP Server Route IPTV	Switch Control	
General			
🔒 Network Map	LAN - DHCP Server		
Guest Network) is a protocol for the automatic configuration used on IP networks. Th orms the client of the of DNS server IP and default gateway IP. DHCP list(list limit:32) FAQ	e DHCP server
🌌 Traffic Manager	Basic Config		
🔒 Parental control	Enable the DHCP Server	© Yes ● No	
	RT-AC66U's Domain Name		
USB application	IP Pool Starting Address	192.168.1.2	
AiCloud	IP Pool Ending Address		
Advanced Settings	Lease Time		
察 Wireless	Default Gateway		
	DNS and WINS Server Setting		
	DNS Server		
💮 wan	WINS Server		
👧 IPv6	Enable Manual Assignment		
	Enable Manual Assignment	● Yes O No	
VPN Server	Manually Assigned IP around the DHCP list(li	st limit:32)	
💭 Firewall	MAC address	IP Address Add	/ Delete
& Administration			€
1776			
📝 System Log		Apply	

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 item, tick Yes.
- 3. In the **Domain Name** text box, enter a domain name for the wireless router.
- 4. In the I**P Pool Starting Address** item, key in the starting IP address.
- 5. In the **IP Pool Ending Address** item, key in the ending IP address.
- 6. In the **Lease Time** item, 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 unless you have advanced knowledge of routing tables.

Quick Internet	Operation Mode: <u>Wireless router</u> F SSID: <u>ASUS ASUS_SG</u>	irmware Version: <u>3.0.0.</u>	4.260	8 ⊡ + ⊡
Setup	LAN IP DHCP Server Route IPTV	Switch Control		
General				
品 Network Map	LAN - Route			
Guest Network	This function allows you to add routing rules the same connection to the Internet.	into RT-AC66U. It is useful i	f you connect several routers	s behind RT-AC66U to share
W Traffic Manager	Basic Config			
	Enable static routes	💿 Yes 💿 No		
Parental control	Static Route List			
🚓 USB application	Network/Host IP	Netmask	Gateway Metric	Interface Add / Delete
				
AiCloud		No data in tabl	e.,	
Advanced Settings		Apply		

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** O 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: <u>3.0.0.4.260</u> SSID: <u>ASUS 5G</u>	& ÷ 4
Setup	LAN IP DHCP Server Route IPTV Switch Control	
General	LAN - IPTV	
品 Network Map		
🐣 Guest Network	Configure the IPTV setting of RT-AC66U. Port Port	
🚧 Traffic Manager	Select ISP Profile	
🔒 Parental control	Choose IPTV STB Port	
-	Special Applications	
USB application	Use DHCP routes Microsoft	
aiCloud	Enable multicast routing	
Advanced Settings	Enable efficient multicast forwarding	
察 Wireless	UDP Proxy(Udpxy) 0	
G LAN	Apply	

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	Operation Mode: <u>Wireless router</u> Fi SSID: <u>ASUS</u> <u>ASUS_SG</u>	mware Version: <u>3.0.0.4.260</u> & 🔁 🔶 🖾
-	Setup	Internet Connection Port Trigger Vin	tual Server / Port Forwarding DMZ DDNS NAT Passthrough
	General		
品	Network Map	WAN - Internet Connection	
*	Guest Network		to WAN (wide area network). These types are selected from the dropdown menu elds differ depending on the connection type you selected.
AV.	Traffic Manager	Basic Config	
	in an e han ager	WAN Connection Type	Automatic IP -
	Parental control	Enable WAN	© Yes ● No
*	USB application	Enable NAT	⊙ Yes ● No
<u></u>	AiCloud	Enable UPnP <u>UPnP FAQ</u>	© Yes ● No
		WAN DNS Setting	
Ac	lvanced Settings	Connect to DNS Server automatically	● Yes ● No
00)	Wireless	Account Setting	
ដ	LAN	Authentication	None
	WAN	Special Requirement from ISP	
		Host Name	
	IPv6	MAC Address	MAC Clone
×	VPN Server		Арріу

To configure the WAN connection settings:

- 1. From the navigation panel, go to **Advanced Settings** > **WAN** > **Internet Connection** tab.
- 2. From the **WAN Connection Type** dropdown list, select any of these Internet connection types: **Automatic IP**, **PPPOE**, **PPTP**, **L2TP**, and **Fixed IP**.

NOTE: For details about your Internet connection type, refer to the information on next pages.

- 3. Follow the default settings in **Basic Config** and **WAN DNS Setting**.
- 4. ISPs may require additional log-in information to connect to the Internet. Contact your ISP if you require this information.
- 5. The host name identifies your router to the ISP. Input the host name provided by your ISP.

- 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	Operation Mode: <u>Wire1</u> SSID: <u>ASUS</u> <u>ASUS_SG</u>	ess router	Firmware	Version: <u>3.0.0</u>	.4.260		ł	8 🔁 🔶 🗉
Setup	Internet Connection	Port Trigger	Virtual Ser	ver / Port Forwa	arding DMZ	DDNS	NAT Passt	hrough
General	WAN - Port Triager				-			
Hanse Network Map								
🕵 Guest Network	Port Trigger allows you to two methods for opening in the time and devices must	ncoming data p	orts: port forv	varding and port	trigger. Port forw	arding ope	ens the specifi	ied data ports all
⊻ Traffic Manager	access to the trigger port. forwarding allows multiple							
Parental control	port. <u>Port Trigger FAQ</u>							
USB application	Basic Config							
	Enable Port Trigger		🔿 Ye	s 🗿 No				
AiCloud	Well-Known Applications		Plea	se select	•			
Advanced Settings	Trigger Port List				_	_	_	
🛜 Wireless	Description	Trigge	er Port	Protocol	Incoming Po	rt	Protocol	Add / Delete
				TCP 🔻			TCP 🔫	Ð
🔓 LAN			3	No data in tab	ile.			

To set up Port Trigger:

- 1. From the navigation panel, go to **Advanced Settings** > **WAN** > **Port Trigger** tab.
- 2. On Enable Port Trigger, choose Yes.
- 3. If the online task or application is on the **Well-Known Applications List**, select it from the list.
- 4. On the Trigger Port List section, enter a description, the trigger ports, and protocol. Click the **Add** button.
- 5. 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.

📌 Quick Internet	SSID: ASUS ASUS_5G	<u>eless router</u> i	Firmware ve	ersion: 3.0.0.4.	260		8	3 6 4 9
Setup	Internet Connection	Port Trigger	Virtual Serve	r / Port Forwardin	g DMZ	DDNS	NAT Passth	nrough
General								
Network Map	WAN - Virtual Serv	/er / Port For	warding					
Guest Network	 Virtual Server / Port forw network (LAN). For a fast forwarding setting. Pleast 	ster connection,	some P2P appli	cations (such as Bi	tTorrent), m	ay also re	quire that you	set the port
🛃 Traffic Manager	ports in router and redire If you want to specify a	Port Range for c	lients on the sar			lame, the	Port Range (e	e.g. 10200:10300),
Parental control	 the LAN IP address, and When your network's it) as the HTTP servi	er's port ran	ae for vou	r WAN setup.	then your http
USB application	server/web server wou • When you set 20:21 a	ld be in conflict v	vith RT-AC66U's	web user interface.				
AiCloud	AC66U's native FTP s	erver.		r your waaw setup,	then your r	TF Server	would be in ci	onnict with KI-
	Basic Config			_	_		_	
Advanced Settings								
	Enable Port Forwarding		• Yes G) No				
Wireless	Enable Port Forwarding Famous Server List			No				
Advanced Settings Wireless				select 👻	•			
Wireless	Famous Server List		Please	select 👻	-			
Wireless	Famous Server List Famous Game List	ļ	Please Please	select 👻	*			
Wireless	Famous Server List Famous Game List FTP Server Port		Please Please	select 👻		I Port	Protocol	Add / Delete
Wireless LAN WAN IPv6 VPN Server	Famous Server List Famous Game List FTP Server Port Port Forwarding List		Please Please 2021	select ▼ select			Protocol TCP V	Add / Delete
Wireless LAN WAN	Famous Server List Famous Game List FTP Server Port Port Forwarding List		Please 2021 ort Range	select ▼ select	Loca			

To set up Port Forwarding:

- 1. From the navigation panel, go to **Advanced Settings** > **WAN** > **Virtual Server / Port Forwarding** tab.
- 2. On the Enable Port Forwarding item, select Yes.
- Select either a server or game from the Famous Server List or Famous Game List. The Port Forwarding information will be automatically filled out on the Forwarding List. Click the Add button.

- 4. If the server or game is not on the **Famous Server** or **Famous Game List**, input the **Port Forwarding** information manually and click the **Add** button.
- 5. 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.

 Setting up a port trigger is applicable if you use similar applications in two PCs during different times of the day. However, it is not suitable for servers behind a router because it relies on specific applications to make an outgoing connection before it can receive incoming ones. Port forwarding can be configured for a server located behind a router.

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. On the **IP Address of Exposed Station** text box, enter the IP address of the computer which you want to assign to DMZ.

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.

To set up DDNS:

- 1. From the navigation panel, go to **Advanced Settings** > **WAN** > **DDNS** tab.
- 2. Click the following settings below. Click **Apply** when done.
 - **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.

	stem) is a service that allows network clients to cor n its registered domain name. The wireless router is	
The wireless router currently uses a	a private WAN IP address (192.168.x.x, 10,x,x,x, or	r 172.16.x.x).
This router may be in the multiple-N	NAT environment and DDNS service cannot work in	this environment.
Enable the DDNS Client	© Yes ● No	
Enable the DDNS Client	O Yes ● No WWW.ASUS.COM	
Server	WWW. ASUS. COM	.asuscomm.com

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	SSID: ASUS ASUS_5G	Firmware Version: <u>3.0.0.4.260</u> Virtual Server / Port Forwarding DMZ DDNS	ക 💿 🔶 트 NAT Passthrough
General	WAN - NAT Passthrough Enable NAT Passthrough to allow a Virtual	Private Network (VPN) connection to pass through t	ne router to the network clients.
🕂 Guest Network	PPTP Passthrough	Enable 🗸	
Manager	L2TP Passthrough	Enable 🔻	
Parental control	IPSec Passthrough RTSP Passthrough	Enable -	
USB application	Enable PPPoE Relay	Disable -	
AiCloud		Apply	
Advanced Settings			
🛜 Wireless			
WaN .			

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.

Quick Internet Setup	Operation Mode: <u>Wireless router</u> f SSID: <u>ASUS ASUS_SG</u> IPv6	irmware Version: <u>3.0.0.4.260</u>	& ⊡ ∻ ⊑
General			
品 Network Map	IPv6		
Guest Network	Configure the IPv6 Internet setting of RT-ACI IPv6 FAQ	56U.	
🚧 Traffic Manager	Basic Config		
mane manager	Connection type	Disable 🔽	
Parental control	Auto Configuration Setting		
dist use application	Enable Router Advertisement	Enable 🔻	
AiCloud		Apply	
Advanced Settings			
察 Wireless			
🟠 LAN			
💮 wan			
IPv6			

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.

Quick Internet Setup	Operation Mode: <u>Wireless router</u> SSID: <u>ASUS</u> <u>ASUS_SG</u> VPN Server VPN Details	Firmware Version: <u>3.0.0.4.260</u>	8048
General	VPN Server - Basic Config The VPN server allows you to access you	r home natural anutime anuthore	
🔉 Guest Network	To use the VPN server. Please follow thes (1) Enable the PPTP VPN server		
Manager Traffic Manager	 (2) Set the IP pool for client IP. (Maximum (3) Set up the username and password for 		
Parental control	(4) Open the VPN connection program on (5) Add a new PPTP VPN connection and	the VPN server address is 0.0.0.0	
discrimination	(6) If your WAN IP address is dynamic, (7) <u>VPN_Server_FAQ</u>	please click here to set the DDNS.	
AiCloud	Basic Config		
-	Enable PPTP Server	● Yes O No	
Advanced Settings	Network Place (Samba) Support	● Yes O No	
🛜 Wireless	Username and Password		
🔂 LAN	User Name	Password	Add / Delete
💮 wan		No data in table.	(
🛞 IPv6			
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:

- 1. 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.

Quick Internet	Operation Mode: <u>Wireless router</u> Firmware Version: <u>3.0.0.4.260</u> SSID: ASUS ASUS SG	\$ 6 ↔ 5
General	General URL Filter Keyword Filter Network Services Filter	
General	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 :	
🔆 Traffic Manager	 Compressed webpages that use HTTP compression technology cannot be filtered. <u>See here f</u> Https webpages cannot be filtered. 	<u>for more details.</u>
🔒 Parental control	Basic Config	
usb application	Enable Keyword Filter Enabled O Disabled	
AiCloud	Keyword Filter List	
	Keyword Filter List	Add / Delete
Advanced Settings		Ð
🛜 Wireless	No data in table.	
	Арріу	
💮 wan		
🔯 IPv6		
VPN Server		
V Firewall		

To set up a keyword filter:

- 1. 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.

Quick Internet	SSID: AS	US ASUS_5	G	
Setup	General	URL Filter	Keyword Filter	Network Services Filter
General	F inance 11	Manuali	Services Filter	
🔠 Network Map	Firewali	- Network	Services Filter	
용 Guest Network		ole, if you do n		to WAN packet exchanges and restricts devices from using specific network services. to use the internet service, key in 80 in the destination port. The traffic that uses port 80
Manager				s rule to all LAN devices.
Parental control	specified	duration, all th	e clients in LAN ca	f duration, clients in the Black List cannot use the specified network services. After the n access the specified network services. d duration, clients in the White List can ONLY use the specified network services. After
usb application	the specifi service.	ed duration, c	lients in the White I	List and other network clients will not be able to access the Internet or any Internet
aiCloud	NOTE : If y Internet se			ist, IP addresses outside the subnet will not be able to access the internet or any
Advanced Settings	Network	Services Filte	r	
察 Wireless	Enable Net	twork Services	Filter	• Yes • No
• • • • • • • • • • • • • • • • • • • •	Filter table	type		Black List 🔻
	Well-Knov	vn Applications		User Defined 🔽
💮 WAN	Date to En	able LAN to WA	N Filter	🐱 Mon 🗹 Tue 🖾 Wed 🖾 Thu 🐱 Fri
😥 IPv6	Time of Da	ay to Enable LA!	N to WAN Filter	00 : 00 - 23 : 59
	Date to En	able LAN to WA	N Filter	🖬 Sat 🖬 Sun
VPN Server	Time of Da	ay to Enable LAN	N to WAN Filter	00 : 00 23 : 59
Firewall	Filtered ICI	MP packet types	3	
& Administration	Network	Services Filte	r Table	
System Log	Sc	ource IP	Port Range	Destination IP Port Range Protocol Add / Delete
				No data in table.
				Apply

To set up a Network Service filter:

- 1. From the navigation panel, go to **Advanced Settings** > **Firewall** > **Network Service Filter** 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 exising 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 or switch off wireless networking.
 - 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:

- 1. From the navigation panel, go to **Advanced Settings** > **Administration** > **Restore/Save/Upload Setting** tab.
- 2. Select the tasks that you want to do:
 - To restore to the default factory settings, click **Restore**, and click **OK** in the confirmation message.
 - To save the current system settings, click **Save**, navigate to the folder where you intend to save the file and click **Save**.
 - To restore from a saved system settings file, click **Browse** to locate your file, then click **Upload**.

If issues occur, upload the latest firmware version and start with new 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

+	Quick Internet	Operation Mode: <u>Wireless router</u> Fi SSID: <u>ASUS</u> <u>ASUS_5G</u>	rmware Version: <u>3.0.0.4.260</u> & তি ج ه
	Setup	General Log DHCP leases Wireless I	og Port Forwarding Routing Table
	General		
品	Network Map	System Log - General Log	ies
*	Guest Network	System Time	Sat, Jan 1 00:42:23 2011
	Traffic Manager	Uptime	0days 0hours 42minutes 23seconds
	Parental control	Jan 1 00:00:07 syslogd started: Busy Jan 1 00:00:07 syslog: module ledtri Jan 1 00:00:07 syslog: module leds-u	g-usbdev not found in modules.dep
٠	USB application	Jan 1 00:00:07 kernel: Linux version Jan 1 00:00:07 kernel: CPU revision :	BurgBox v1.17.4 (2012-11-06 22:54:45 CST) 2.6.22.19 (noro9genus) (gcc version 4.2.4) #1 Tue Nov 6 23:19:25 CS 1s: 00019749 monthib escrial flash with 32 64K8 blocks; total size 2MB
	AiCloud	Jan 1 00:00:07 Kernel: Found an Ji C Jan 1 00:00:07 Kernel: memory: 07ff Jan 1 00:00:07 Kernel: memory: 0800 Jan 1 00:00:07 Kernel: memory: 0800 Jan 1 00:00:07 Kernel: memory: 0800	/sical RAM map: 5000 0 0000000 (usable) 5000 0 875f200 (usable)
A	dvanced Settings	Jan 1 00:00:07 kernel: Kernel command	d line: root=/dev/mtdblock3 console=ttyS0,115200 init=/sbin/preinit action cache 32kB, physically tagged, 4-way, linesize 32 bytes.
00	Wireless	Jan 1 00:00:07 kernel: Synthesized T	B load handler fastpath (32 instructions). B store handler fastpath (32 instructions).
ដ	LAN		
	WAN	Jan 1 00:00:07 kernel: console [ttyS Jan 1 00:00:07 kernel: Dentry cache]	
(B)	IPv6	Jan 1 00:00:07 kernel: Memory: 23860 Jan 1 00:00:07 kernel: Mount-cache h Jan 1 00:00:07 kernel: NET: Register	
Ø	VPN Server	Clear	Save Refresh
Q	Firewall		
&	Administration		
	System Log		

5 Utilities

NOTES:

- Install the wireless router's utilities from the bundled support CD.
- If Autorun is disabled, run **setup.exe** from the root directory of the support CD.
- 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-AC66U Wireless
 Router > Device Discovery.



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

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.

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-AC66U Wireless
 Router > Firmware Restoration.

jilename:	E	<u>}</u> rowse
tatus After locating the firmware file, c	lick Upload.	

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: Advanced Settings** for more details.

5.3 Setting up your printer server

5.3.1 ASUS EZ Printer Sharing

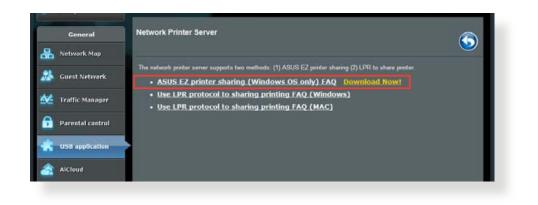
ASUS EZ Printing Sharing utility allows you to connect a USB printer to your wireless router's USB port and set up the print server. This allows your network clients to print and scan files wirelessly.



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

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.

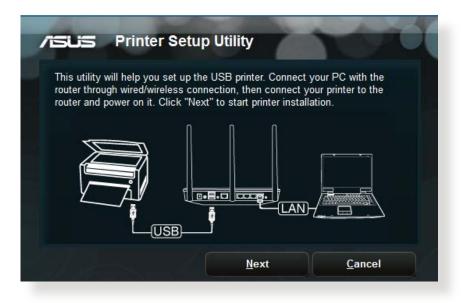


NOTE: Network printer utility is supported on Windows[®] XP, Windows[®] Vista, and Windows[®] 7 only. To install the utility on Mac OS, select **Use LPR protocol for sharing printer**.

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

	😞 ASUS Printer Setup Utility - InstallShield Wizard 📃 🎫
	Extracting Files The contents of this package are being extracted.
Printer.exe	Please wait while the InstallShield Wizard extracts the files needed to install ASUS Printer Setup Utility on your computer. This may take a few moments.
	Extracting UsbService64.exe
	InstallShield < Back Next > Cancel

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



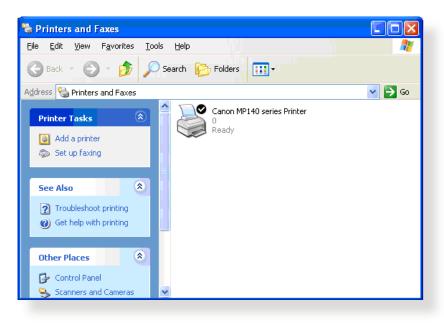
- 5. Wait a few minutes for the initial setup to finish. Click **Next**.
- 6. Click **Finish** to complete the installation.

/ISUS Printer S	Setup Utility	100
You have connected to the direction to install printer d	following wireless router. P river now.	lease follow Windows
IP Address:	192.168.1.1	
Wireless Router:	RT-AC66U	
Please follow the Windows	OS's directions to install p	rinter 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.

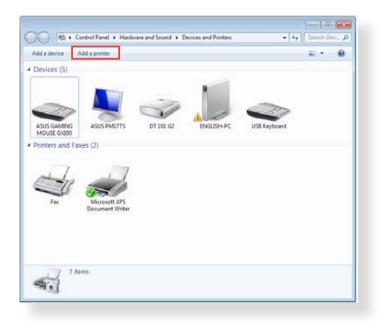


5.3.2 Using LPR to Share Printer

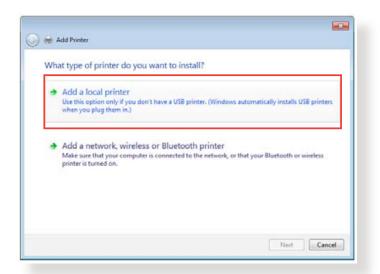
You can share your printer with computers running on Windows[®] and MAC operating system using LPR/LPD (Line Printer Remote/ Line Printer Daemon).

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.

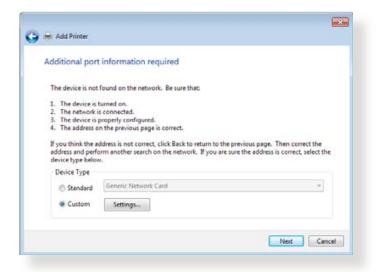
Choose a printer port	
A printer port is a type of con	nection that allows your computer to exchange information with a printer.
Use an existing port:	LPT1: (Printer Port)
Create a new port:	37
Type of port:	Standard TCP/IP Port

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

	ne or IP address	
Device type:	TCP/IP Device	
Hostname or IP address:	192.168.1.1	
Port name:	192.168.1.1	
V Query the printer and auto	matically select the driver to use	

94

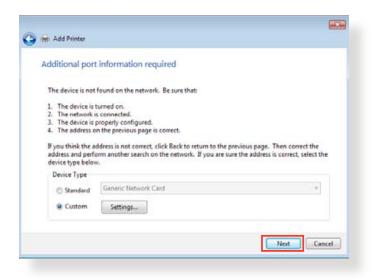
5. Select **Custom** then click **Settings**.



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

t Settings	
Port Name:	192.168.1.1
Printer Name or IP Addres	ss: 192.168.1.1
Protocol	
Raw	LPR
Raw Settings	
Port Number:	9100
LPR Settings	
Queue Name:	LPRServer
LPR Byte Counting E	nabled
SNMP Status Enable	d
Community Name:	public
SNMP Device Index:	1
	<u>k</u>

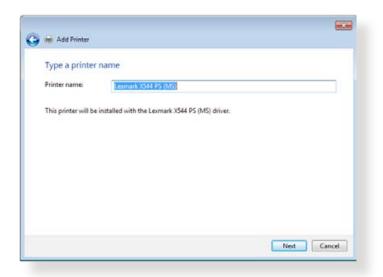
7. Click **Next** to finish setting up the standard TCP/IP port.



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.

Lanier Cexmark X543 PS (MS) Learnark Microsoft Cexmark X542 et (M5)	install the printer drive	er		
Manufacturer Printers Kyocera Lexmark X422 (MS) Lexmark X432 PS (MS) Lexmark Microsoft Lexmark X542 PS (MS) Lexmar	Choose your printe	er from the list. Click	Windows Update to see more m	odels.
Kyocera Central Control Contro	To install the drive	r from an installation	n CD, click Have Disk.	
Kyocera Central Control Contro				
Kyocera Central Control Contro	24.43 - 34 - 14			
Lanier Cexmark X543 PS (MS) Learnark Microsoft Cexmark X542 et (M5)	Manufacturer	* Printers		
Learnark Microsoft	Kyocera			
Microsoft				
une E Channel Wells, aler	and the second se	The second se		
				-
White data and the basis of sound the basis of the basis			Windows Update	Have Disk
This driver is digitally signed. Windows Update Heve Disk Tell me why driver signing is important			windows opdate	Have Disk

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



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

)	Add Printer
	You've successfully added Lexmark X544 PS (MS)
	To check if your printer is working properly, or to see troubleshooting information for the printer, print a test page.
	Print a test page
	Finish Cancel

5.4 Download Master

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

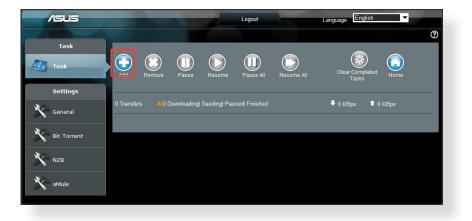
NOTE: You need a USB device connected to the wireless router to use Download Master.

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

1.020		
Task	Bit Torrent Setting	
nk	Port	
settings	Use the default port Use the following port	
	Incoming part	
eneral	Speed Limits.	
	Maximum download speed	kilus
Torrent	Maximum upload speed	NEWS
	ENTronant Network setting	
10	Difforrent protocol encryption	Encryption disabled
	Max peers allowed per torrent	100
	DHT network	Enable DEIT to adivate tracidess toment download

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**.



6 Troubleshooting

This chapter provides solutions for issues you may encounter with your router. If you encounter problems that are not mentioned in this chapter, visit the ASUS support site at: <u>http://support.asus.com/</u> for more product information and contact details of ASUS Technical Support.

6.1 Basic Troubleshooting

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

Upgrade Firmware to the latest version.

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

Seeing Queuzion Mode Tystem Temmane Lipping ExterneySeein, Abbaid Secting Conserval Administration - Firmware Upgrade Administration - Firmware Upgrade Active K. Noip Preserval text Me ASUS support vie (text). Properties Administration - Firmware Upgrade Active K. Noip Preserval text Me ASUS support vie (text). Properties Concel Active K. Noip Preserval text Me ASUS support vie (text). Properties Concel Active K. Noip Preserval texture Concel Ref. Active Active K. Noiper Advanced Sectings Concel Ref. Active Active Conservation Societ Active K. Noiper Concel Concel Concel Active Conservation Societ Active K. Noiper Concel Concel Concel Concel Active Conservation Societ Active K. Noiper Externey Second Sectings Concel	W Quick Inte	operation Hode: wireles	a router Fernivaria Version: 3.0.0.4.240 SSID ASUS ASUS B D + D		
Image: Second	Settap	Operation Hode System	Operation Mode System Feminare Upgrade Restore/Save/Upload Setting		
Image: Nutroop Press and the ASUS support site (Mtp.//support.sites.cum.) is get the latest fineware. Image: Nutroop Press and the ASUS support site (Mtp.//support.sites.cum.) is get the latest fineware. Image: Nutroop Press and the ASUS support site (Mtp.//support.sites.cum.) is get the latest fineware. Image: Nutroop Press and the ASUS support site (Mtp.//support.sites.cum.) is get the latest fineware. Image: Nutroop Press and the ASUS support site (Mtp.//support.sites.cum.) is get the latest fineware. Image: Nutroop Press and the ASUS support site (Mtp.//support.sites.cum.) is get the latest fineware. Image: Nutroop Press and the ASUS support site (Mtp.//support.sites.cum.) is get the latest fineware. Image: Nutroop Press and the ASUS support site (Mtp.//support.sites.site.support site (Mtp.//support.site.site.support site site support site support site support site support site site support site site support site su	Genera				
Image: Const NetWork Product D RCFACEGO Image: Traffic Manager Product D RCFACEGO Image: Traffic Manager Product D RCFACEGO Image: Traffic Manager RCFACEGO RCFACEGO Image: Traffic Mana	🐣 Network 1	Hap	Administration - Firmware Upgrade		
Presental central Presental central Premeary lurgion Premeary lurgion Pr	S Guest Net		rt site (Mtp://isopport.asos.com) to get the latest firmeare.		
Image: Section of the section of t	Sector Contraction	Product (D	REACON		
Lista application Lipload Alclood International parameter assing both in the sid and none formware, the safting will be long abor parameter assing both in the sid and none formware, the safting will be long abor parameter assing both in the sid and none formware, the safting will be long abor parameter assing both in the sid and none formware, the safting will be long abor parameter assing both in the sid and none formware, the safting will be long abor parameter assing both in the sid and none formware, the safting will be long abor parameter assing both in the sid and none formware. It is affing will be long abor parameter assing both in the sid and none formware. It is affing will be long abor parameter at the sid affing the sidge abor parameter assing both in the sid and none formware. It is affing will be long abor parameter at the sidge abor parameter assing both in the sid and none formware. It is affing will be long abor parameter assing both in the sid and none formware. It is affing will be long abor parameter at the sidge abor parameter assing both in the sid and none formware. It is affing will be long abor parameter assing both in the sid and none formware. It is affing will be long abort at the sid affing the sidge abort at the sid affing the sid and none formware. It is affing the sid and none formware. It is affing the sid	Mattic Ma	Famalare Version	1.9.8.4.200 Check		
Clobel application AiClosed AiClosed AiClosed Settings AiClosed Settings Airvaeced Settings Wireless Clobel LAY Clobel Anti-Coll Units and such situation. Usin the Formauly Restoration adding on the CO to do appliant recovery Wireless Even Even Even Server	💼 Perental e	nestral New Ferman File	Breat		
AlCloud Alcloud Alvaeced Settings Wireless Wrai	🚓 LISB appli	cation	tyled		
		and the second sec			
Advanced Settings Activity will indicate such situation. Use the Permanen Restoration utility on the CD to do applient recovery Image: Wireless Image: Wireless Image: Wireless Image:	Arcloyd				
C LAN WAN BP46 VPN Server	Advanced S				
WYAN WYAN BYYA VIN Server	😪 Wireless				
WYAN WYAN BYYA VIN Server	(un				
BPr6 VPN Server	-				
VPN Server	www.				
	S IPv6				
😈 Firmali	VPN Serv	er			
	💟 Firmali				
Atariaitzatia	a thereas	ation			

- 2. If the latest firmware is available, visit the ASUS global website at <u>http://www.asus.com/Networks/Wireless_Routers/RTAC66U/</u><u>#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 computer.

• 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.

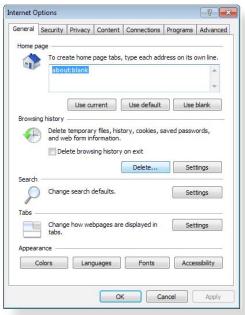
 Some cable modem service providers require you to use the MAC address of the computer initially registered on the account. You can view the MAC address in the web GUI, Network Map > Clients page, and hover the mouse pointer over your device in Client Status.



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 8, follow these steps:
 - Launch Internet Explorer 8, then click Tools > Internet Options.
 - 2. In the **General** tab, under **Browsing history**, click **Delete...**, select **Temporary Internet Files** and **Cookies** then click **Delete**.



NOTES:

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

The client cannot establish a wireless connection with the router.

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.

RT-AC66	J Logost	Reboot	English ¥
Quick Internet	Operation Mode: Wireless rout	Firmware Version: 3.0.0.4.260 55	ID: ASUS ASUS 8 6 4 0
Setup	LAN IP DHCP Server Route IPTV Switch Control		
General			
Network Map	LAN - DHCP Server		
Guest Network	DHCP (Dynamic Hast Configuration Fratocol) 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 DKS server IP and default gateway IP. Hansality vas Signed JP. an control the Default J Institution Frag		
Traffic Manager	Besic Config		
Parental control	Enable the DHCP Server	O Yes 🗢 No	
	RT-AC65U's Domain Name		
USB application	IP Pool Starting Address		
AlCloud	IP Pool Ending Address		
Advanced Settings	Lease Time		
Wireless	Default Galeway		
	DHS and WINS Server Setting		
LAN	DNS Server		
WAN	WINS Server		
IP+6	Enable Manual Assignment		
	Enable Manual Assignment	O Yes • No	
VPN Server	Hanually Assigned IP around the DRC	P Kst(but kendt.)2)	
Firewall	MAC address	IP Address	Add / Delete

 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.

ASUS RT-AC66	Logout	Reboot	English 🔻
Quick Internet Setup	and the second second second second	outer: Firmware Version: 3.0.0.4.260 SSID: ASUS ASU Versiese MAC Filter RADIUS Setting Professional	8 3045
General	Wireless - General Set up the waviese related information below		
Guest Network	Frequency	- E20223 -	
Manager	550 Hex 550	4565 • Yes O No	
Parental control	Weless Node	e yes O No Recto	
t/SR application	Channel bandwidth	201802000 •	
Aicloud	Control Channel	Egen System	
Advanced Settings	MEP Encryption	hote -	
😭 LAN		Apply :	
🔁 WAN			
🔕 1Pv6			
🤹 VPN Server			
😈 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.

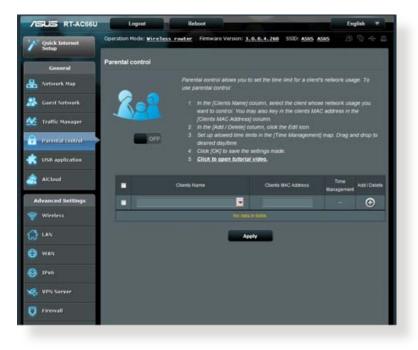


Internet is not accessible.

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



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



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

You forgot the SSID (network name) or network password

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

How to restore the system to its default settings?

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

The following are the factory default settings:

User Name:	admin
Password:	admin
Enable DHCP:	Yes (if WAN cable is plugged in)
IP address:	192.168.1.1
Domain Name:	(Blank)
Subnet Mask:	255.255.255.0
DNS Server 1:	192.168.1.1
DNS Server 2:	(Blank)
SSID (2.4GHz):	ASUS
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[°] 7

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

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Choos						

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

Automatic configuration use of manual settings, Automatically detect	disable automatic (
Use automatic config			
Address			
roxy server			
Use a proxy server f		e settings	will not apply to
dial-up or VPN conne			
Address:	Port:	80	Advanced
Address:	Port:	157.5	Advanced

MAC OS

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

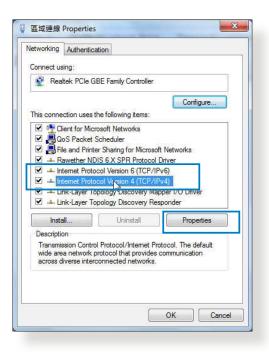
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NOTE: Refer to your browser's help feature for details on disabling the proxy server.

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

Windows[°] 7

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



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

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

4. Click **OK** when done.

	Alternate Configuration				
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	appropriate IP settings.	K YOUR I	letwo	Kadmin	Istrator
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0	btain DNS server address automat	ically			
OU	se the following DNS server addres	ses:			
Pref	erred DNS server:				
Alte	rnate DNS server:	6	34		
	alidate settings upon exit			Advi	anced

MAC OS

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

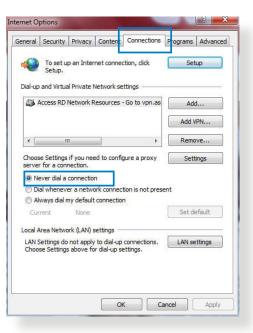
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	L	ocation:	Automatic		•	
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	IP Address:	192.168.	182.103		Renew DHC	P Lease
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NOTE: Refer to your operating system's help and support feature for details on configuring your computer's TCP/IP settings.

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

Windows[°] 7

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



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

Appendices

Notices

ASUS Recycling/Takeback Services

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

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.

IMPORTANT! This device within the 5.15 ~ 5.25 GHz is restricted to indoor operations to reduce any potential for harmful interference to co-channel MSS operations.

CAUTION: 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

Safety Information

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use on the supplied antenna.

Declaration of Conformity for R&TTE directive 1999/5/EC

Essential requirements – Article 3

Protection requirements for health and safety – Article 3.1a

Testing for electric safety according to EN 60950-1 has been conducted. These are considered relevant and sufficient.

Protection requirements for electromagnetic compatibility – Article 3.1b

Testing for electromagnetic compatibility according to EN 301 489-1 and EN 301 489-17 has been conducted. These are considered relevant and sufficient.

Effective use of the radio spectrum – Article 3.2

Testing for radio test suites according to EN 300 328 & EN 301 893 have been conducted. These are considered relevant and sufficient.

Operate the device in 5150-5250 MHz frequency band for indoor use only.

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.

Canada, Industry Canada (IC) Notices

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210.

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.

Radio Frequency (RF) Exposure Information

The radiated output power of the Dell Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Dell Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has been evaluated for and shown compliant with the IC Specific Absorption Rate ("SAR") limits when installed in specific host products operated in portable exposure conditions (antennas are less than 20 centimeters of a person's body).

This device has been certified 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)

Cet appareil numérique de classe B est conforme aux normes

canadiennes ICES-003 et RSS-210.

Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent a ecter son fonctionnement.

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Fax		+492102959911
Online support		support.asus.com

* EUR 0.14/minute from a German fixed landline; EUR 0.42/minute from a mobile phone.

Networks Global Hotline Information

Area	Hotline Number	Support Languages	Working Hour	Working Day
Australia	1300-2787-88	English	8:00-20:00	Mon. to Fri.
Austria	0043-820240513	German	9:00-18:00	Mon. to Fri.
Belgium	0032-78150231	Dutch /French	9:00-17:00	Mon. to Fri.
China	400-620-6655	Simplified Chinese	9:00-18:00	Mon. to Sun.
Denmark	0045-3832-2943	Denish/English	9:00-17:00	Mon. to Fri.
Finland	00358-9693-7969	Finnish/English/ Swedish	10:00-18:00	Mon. to Fri.
France	0033-170949400	France	9:00-17:45	Mon. to Fri.
Greece	00800-44-14-20-44	Greek	9:00-13:00; 14:00-18:00	Mon. to Fri.
Hong Kong	3582-4770	Cantonese/ Chinese/	10:00-20:00	Mon. to Fri.
		English	10:00-17:00	Sat.
Ireland	0035-31890719918	English	9:00-17:00	Mon. to Fri.
lanan	0800-123-2787	lananoso	9:00-18:00	Mon. to Fri.
Japan	0000-125-2767	Japanese	9:00-17:00	Sat. to Sun.
Malaysia	+603 2148 0827 (Check Repair Detail Status Only) +603-6279-5077	Bahasa Melayu/ English	10:00-19:00	Mon. to Fri.
Netherlands / Luxembourg	0031-591-570290	Dutch / English	9:00-17:00	Mon. to Fri.
New Zealand	0800-278-788 / 0800-278-778	English	9:00-17:00	Mon. to Fri.
Norway	0047-2316-2682	Norwegian /English	9:00-17:00	Mon. to Fri.
Philippine	+632-636 8504; 180014410573	English	9:00-18:00	Mon. to Fri.
Poland	00225-718-033 00225-718-040	Polish	9:00-17:00 8:30-17:30	Mon. to Fri.
Portugal	707-500-310	Portuguese	9:00-17:00	Mon. to Fri.

Networks Global Hotline Information

			Working	Working
Area	Hotline Number	Support Languages	Working Hour	Day
Russia	+8-800-100-ASUS; +7- 495-231-1999	Russian/ English	9:00-18:00	Mon. to Fri.
Singapore	+65-6720-3835 (Check Repair Detail Status Only) -66221701	English	11:00-19:00	Mon. to Fri.
Slovak	00421-232-162-621	Czech	8:00-17:00	Mon. to Fri.
Spain	902-88-96-88	Spanish	9:00-18:00	Mon. to Fri.
Sweden	0046-8587-6940	Swedish/ English	9:00-17:00	Mon. to Fri.
	0041-848111010	German/French	9:00-18:00	Mon. to Fri.
Switzerland	0041-848111014	French	9:00-17:45	Mon. to Fri.
	0041-848111012	Italian	9:00-17:00	Mon. to Fri.
Taiwan	0800-093-456; 02-81439000	Traditional Chinese	9:00-12:00; 13:30-18:00	Mon. to Fri.
Thailand	+662-679-8367 -70; 001 800 852 5201	Thai/English	9:00-18:00	Mon. to Fri.
Turkey	+90-216-524-3000	Turkish	09:00-18:00	Mon. to Fri
United Kingdom	0044-870-1208340; 0035-31890719918	English	9:00-17:00	Mon. to Fri.
USA/Canada	1-812-282-2787	English	8:30-12:00am EST (5:30am- 9:00pm PST) 9:00am- 6:00pm EST (6:00am- 3:00pm PST)	Mon. to Fri. Sat. to Sun.

NOTE: For more information, visit the ASUS support site at: <u>http://support.asus.com</u>

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