tehnotzka

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Uputstvo za upotrebu (EN)

ASUS RT-AX52 AX1800 WiFi ruter



Tehnoteka je online destinacija za upoređivanje cena i karakteristika bele tehnike, potrošačke elektronike i IT uređaja kod trgovinskih lanaca i internet prodavnica u Srbiji. Naša stranica vam omogućava da istražite najnovije informacije, detaljne karakteristike i konkurentne cene proizvoda.

Posetite nas i uživajte u ekskluzivnom iskustvu pametne kupovine klikom na link:

https://tehnoteka.rs/p/asus-rt-ax52-ax1800-wifi-ruter-akcija-cena/

User Guide

RT-AX52

Wireless-AX Dual Band Wi-Fi 6 Router





E23211 First Edition January 2024

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1 Getting to know your wireless router

1.1 Welcome!

Thank you for purchasing an ASUS RT-AX52 Wireless Router! The ultra-thin and stylish RT-AX52 features a 2.4GHz and 5GHz dual bands for an unmatched concurrent wireless HD streaming and the ASUS Green Network Technology, which provides up to 70% power-saving solution.

1.2 Package contents

☑ RT-AX52 Wireless Router☑ Power adapter

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

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

1.3 Your wireless router

1	Power LED
	Off: No power.
	On : Device is ready.
	Flashing slow: Rescue mode
2	WAN (Internet) LED
	Red: No IP or no physical connection.
	On : Has physical connection to a wide area network (WAN).
3	LAN LEDs
	Off : No power or no physical connection.
	On : Has physical connection to a local area network (LAN).
4	2.4GHz LED
	Off : No 2.4GHz signal.
	On : Wireless system is ready.
	Flashing: Transmitting or receiving data via wireless connection.
5	5GHz LED
	Off : No 5GHz signal.
	On : Wireless system is ready.
	Flashing: Transmitting or receiving data via wireless connection.
6	WPS LED
	Off: No WPS connection.
	On: WPS mode.
	Flashing: WPS wizard is running.

1)

LAN 1 ~ 3 ports

Connect network cables into these ports to establish LAN connection.



9

10

WAN (Internet) port

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

Reset button

This button resets or restores the system to its factory default settings.

WPS button

This button launches the WPS Wizard.



Power (DCIN) port

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



Power switch

Press this switch to power on or off the system.

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

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

1.4 Positioning your router

For the best wireless signal transmission between the wireless router and the network devices connected to it, ensure that you:

- Place the wireless router in a centralized area for a maximum wireless coverage for the network devices.
- Keep the device away from metal obstructions and away from direct sunlight.
- Keep the device away from 802.11g or 20MHz only Wi-Fi devices, 2.4GHz computer peripherals, Bluetooth devices, cordless phones, transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators, and other industrial equipment to prevent signal interference or loss.
- Always update to the latest firmware. Visit the ASUS website at <u>http://www.asus.com</u> to get the latest firmware updates.



1.5 Setup Requirements

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

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

- If your computer does not have built-in wireless capabilities, you may
 install an IEEE 802.11a/b/g/n/ac/ax WLAN adapter to your computer
 to connect to the network.
- With its dual band technology, your wireless router supports 2.4GHz and 5GHz wireless signals simultaneously. This allows you to do Internet-related activities such as Internet surfing or reading/writing e-mail messages using the 2.4GHz band while simultaneously streaming high-definition audio/video files such as movies or music using the 5GHz band.
- Some IEEE 802.11n devices that you want to connect to your network may or may not support 5GHz band. Refer to the device's manual for specifications.
- The Ethernet RJ-45 cables that will be used to connect the network devices should not exceed 100 meters.

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 followings:
 - If you are replacing an existing router, disconnect it from your network.
 - Disconnect the cables/wires from your existing modem setup. If your modem has a backup battery, remove it as well.
 - Reboot your cable modem and computer (recommended).

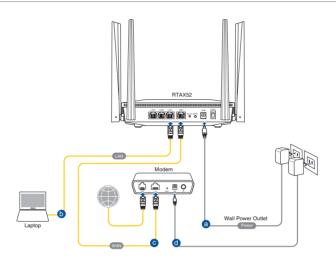


WARNING!

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

1.6.1 Wired connection

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



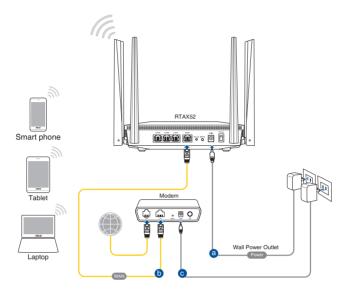
To set up your wireless router via wired connection:

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

IMPORTANT! Ensure that the LAN LED is blinking.

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

1.6.2 Wireless connection



To set up your wireless router via wireless connection:

- 1. Insert your wireless router's AC adapter to the DCIN port and plug it to a power outlet.
- 2 Using the bundled network cable, connect your modem to your wireless router's WAN port.
- 3. Insert your modem's AC adapter to the DCIN port and plug it to a power outlet.
- 4. Install an IEEE 802.11a/b/g/n/ac/ax 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 **3.6.1 Setting up the wireless security settings**.

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, enter http://www.asusrouter.com.
- 2. On the login page, key in the default user name (**admin**) and password (**admin**).
- 3. You can now use the Web GUI to configure various settings of your ASUS Wireless Router.



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

2.2 Quick Internet Setup (QIS) with Autodetection

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

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

To use QIS with auto-detection:

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



- By default, the login username and password for your wireless router's Web GUI is admin. For details on changing your wireless router's login username and password, refer to section 3.1.2 System.
- The wireless router's login username and password is different from the 2.4GHz/5GHz network name (SSID) and security key. The wireless router's login username and password allows you to log into your wireless router's Web GUI to configure your wireless router's settings. The 2.4GHz/5GHz network name (SSID) and security key allows Wi-Fi devices to log in and connect to your 2.4GHz/5GHz network.

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

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

for Automatic IP (DHCP)

Internet	Please select the Internet connection type from the options below. If you do not know the Internet connection type, contact your ISP.	
	DHCP	>
	PPPoE	>
	Static IP	>
	PPTP	>
	L2TP	>
	Special Requirement from ISP	

for PPPoE, PPTP, and L2TP

Internet SP Account Setting	Please enter the required in Username	formation below.
	Password	۵
	Previous	Next

for Static IP

Internet Static IP	Static IP allows your PC to use a fixed IP address provided by your ISP.
	IP Address
	192.168.1.215
	Subnet Mask
	255.255.255.0
	Default Gateway
	192.168.1.1
	DNS Server1
	192.168.1.1
	DNS Server2
	Previous Next

- The auto-detection of your ISP connection type takes place when you configure the wireless router for the first time or when your wireless router is reset to its default settings.
- If QIS failed to detect your Internet connection type, click **Skip to manual setting** and manually configure your connection settings.
- 3. Assign the wireless network name (SSID) and security key for your 2.4GHz and 5GHz wireless connection. Click **Apply** when done.

Assign a unique name or SSID (Service Set Identifies help identify your wireless network.			
Advanced Settings			
Network Name (SSID)			
ASUS			
Wireless Security			

4. Your Internet and wireless settings are displayed. Click **Next** to continue.

Quick Internet Setup	Sectors Time: Set Ten (11 /	0:02:51 2011 Charge the title rone
Check Connection		
	Historic Name(SSID)	ABUS monkey
laternet Setup	Wareless Security	Open System
Router Setup	Network Name(SSID)	ASU9_5G-matikey
	Winters Security	Open System
	WAN Connection Type	Automatic P
	WARD	102 168 123 23
	LAN P	107.168.1.1
	MAC	20 CF 38 80 C0 C0
		Next
		Next

5. Read the wireless network connection tutorial. When done, click **Finish**.

2.3 Connecting to your wireless network

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

To connect to your network:

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

3.1 Administration

3.1.1 Operation Mode

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



To set up the operating mode:

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

3. Click Save.

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

3.1.2 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**.
- 2. You can configure the following settings:
 - **Change router login password**: You can change the password and login name for the wireless router by entering a new name and password.
 - **WPS button behavior**: The physical WPS button on the wireless router can be used to activate WPS.
 - Time Zone: Select the time zone for your network.
 - **NTP Server**: The wireless router can access a NTP (Network time Protocol) server in order to synchronize the time.
 - Enable Telnet: Click Yes to enable Telnet services on the network. Click No to disable Telnet.
 - Authentication Method: You can select HTTP, HTTPS, or both protocols to secure router access.
 - Enable Web Access from WAN: Select Yes to allow devices outside the network to access the wireless router GUI settings. Select No to prevent access.
- 3. Click **Apply**.

3.1.3 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.
- 2. In the **New Firmware File** field, click **Browse** to locate the downloaded file.
- 3. Click Upload.

NOTES:

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

3.1.4 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.
- 2. Select the tasks that you want to do:
 - To restore to the default factory settings, click **Restore**, and click **OK** in the confirmation message.
 - To save the current system settings, click **Save**, navigate to the folder where you intend to save the file and click **Save**.
 - To restore from a saved system settings file, click **Browse** to locate your file, then click **Upload**.

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

3.2 Firewall

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

NOTE: The Firewall feature is enabled by default.

3.2.1 General

To set up basic Firewall settings:

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

3.2.2 URL Filter

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

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

To set up a URL filter:

- 1. From the navigation panel, go to **Advanced Settings** > **Firewall** > **URL Filter**.
- 2. On the Enable URL Filter field, select **Enabled**.

- 3. Enter a URL and click the 🕑 button.
- 4. Click Apply.

3.2.3 Keyword filter

Keyword filter blocks access to webpages containing specified keywords.

Limitations of the filtering function :	
 Compressed webpages that use HTTP compression technology cannot be filtered. Https webpages cannot be filtered. 	See here for more detail
Basic Config	
Enable Keyword Filter Enables Disabled	
Keyword Filter List (Max Limit : 64)	_
Keyword Filter List	Add / Delete
	Ð
No data in table.	

To set up a keyword filter:

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

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

3.2.4 Network Services Filter

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

Firewall - Network	Services Filter				
	t want the device k tps can not be block				
specified duration, all the White List Duration : De	clients in LAN can ring the scheduled	duration, clients in the Bib access the specified netw duration, clients in the Wi st and other network clien	ork services. ille List can ONLY u	se the specified net	work services. After
Internet service. • Fleminder: The System for	e none is different in	st, IP addresses outside t m vour locale setting	ha subnot will not be	able to access the	Internet or any
Notwork Services Fil Enable Network Services	V53	• Yes • • No			
Filter table type		Black List +			
Well-Known Applications		user befined •			
Date to Enable LAN to W	W Filter	Di Mon Di Tue Di Med Di Thu Cli Fri			
Time of Day to Enable LA	N to WAN Filter	00 00 - 23 55			
Date to Enable LAN to WAN Filter 22 Sat 22 San					
Time of Day to Enable LA	Time of Day to Enable LAN to WAN Filter 00 00 - 23 59				
Filtered ICMP packet type	Fillend ICMP packat types				
Natwork Sarvicas Fil	ter Toble (Msx Li	mit : 32)			
Source IP	Port Range	Destination IP	Fort Range	Protocal	Add / Delete
					۲
		No data in La	bles	**	
		Apply			

To set up a Network Service filter:

- 1. From the navigation panel, go to **Advanced Settings** > **Firewall** > **Network Service Filter**.
- 2. On the Enable Network Services Filter field, select Yes.
- 3. Select the Filter table type. **Black List** blocks the specified network services. **White List** limits access to only the specified network services.
- 4. Specify the day and time when the filters will be active.

- 5. To specify a Network Service to filter, enter the Source IP, Destination IP, Port Range, and Protocol. Click the 💮 button.
- 6. Click **Apply**.

3.3 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-AX52 supports up to six SSIDs (three 2.4GHz and three 5GHz SSIDs).

To create a guest network:

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

Guest Network			
2	The Guest Network provides Inte your local network	ernel connection for guests bu	l restricts access to
Network Name (SS	HD)		
Authentication Method			
Network Key	Enable	Enable	Enable
Time Remaining			Default setting by Alexadi TTT
Access Intranet			
Network Name (\$5	iD)		
Authentication			
Method			
Network Key	Enable	Enable	Enable
Time Remaining			Default satting by AlexadETTT
Access Intranet			

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

uest Network			
	iuest Network provides Inte local network	ernet connection for guests b	ut restricts access to
Network Name (SSID)	ASUS_20_Guest		
Authentication Method	Open System		
Network Key	None	Enable	Enable
Time Remaining	Unlimited access	Channe	Default setting by AlexalFTTT
	Remove		
Network Name (SSID)	ASUS 5G Gues		
Authentication Method	Ooan Svetam		
Network Key	None	Enable	Enable
Time Remaining	Unlimited access		Detail setting by Alexane TT
Access intranet	at		
	Remove		

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

3.4 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.



To set up IPv6:

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

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

3.5 LAN

3.5.1 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.

Configure the LAN setting of ASUS Ro	outer.	
Host Name	ASUS Router	
ASUS Router's Domain Name		
IP Address	192.168.50.1	
Submet Mask	255.255.255.0	

To modify the LAN IP settings:

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

3.5.2 DHCP Server

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

LAN - DHCP Server DHCP (Dynamic Host Configuration Pro	stocol) is a number of far th	e su dormatic condicuention o	ised on ID networks. The	DHCP serve
can assign each client an IP address ar to 253 IP addresses for your local netw Nanually Assigned IP around t	id informs the client of the ork.			
Basic Config				
Enable the DHCP Server	Q Yes O No			
RT-AX52's Domain Name				
IP Pool Starting Address				
IP Pool Ending Address	197.168.50.25			
Lease time (seconds)	86400			
Detault Galeway				
DH5 and WINS Berver Setting				
DNS Server 1				
DNS Server 2				
Advertise router's IP in addition to user- specified DNS	O Yes O No			
WINS Server				
Manual Assignment	_	_	_	
Enable Manual Assignment	• Yas • No			
Manually Assigned IP around the	DHCP list (Max Limit :	64)		
Cient Name (MAC Address)	IP Address	DNS Server (Optional)	Host Name (Optional)	Add / Delete
				Ð
	Ap	oly.		

To configure the DHCP server:

- 1. From the navigation panel, go to **Advanced Settings** > **LAN** > **DHCP Server**.
- 2. In the Enable the DHCP Server field, tick Yes.
- 3. In the **Domain Name** text box, enter a domain name for the wireless router.
- 4. In the **IP Pool Starting Address** field, key in the starting IP address.

- 5. In the **IP Pool Ending Address** field, key in the ending IP address.
- 6. In the **Lease Time** field, specify in seconds when an assigned IP address will expire. Once it reaches this time limit, the DHCP server will then assign a new IP address.

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

3.5.3 Route

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

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

his function allows you to the Internet.	add routing rules	into. It is useful if you connect st	rveral route	rs bahind t	o share the sar	me connection
Basic Config			_	_		
Enable static routes		• Yes • No				
Static Route List (Max	Limit : 32)		_	_	_	_
Network/Host IP	Nolmasik	Gatoway		Metric	Intertace	Add / Delete
			¥			⊕
		No data restable.				11

To configure the LAN Routing table:

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

3.5.4 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.

onnected to the Internut. Please go to <u>WAN - Dual WAN</u> to confirm that WAN port i
None +

3.6 Network Map

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

	System Status	
The network cable is	Wireless Status	
unplused.	2.4 GHz	
	Network Name (SSID)	
×	ASUS_40	
	Authentication Method	
Security level: WPA2-Personal	WPA2-Persona1 🗸	
	WPA Encryption	
•	AES V	
	WPA-PSK key	
	banking_2345	
	5 GHz	
	Network Name (SSID)	
	ASUS_40	
Clients: 1	Authentication Method	
	WPA2-Personal 👻	
View List	WPA Encryption	
	AES V	
	WPA-PSK key	
(())	banking_2345	
\sim		
AiMesh Node: 0	Apply	

3.6.1 Setting up the wireless security settings

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

To set up the wireless security settings:

- 1. From the navigation panel, go to **General** > **Network Map**.
- 2. On the Network Map screen and under **System Status**, you can configure the wireless security settings such as SSID, security level, and encryption settings.

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

System Status
Wireless Status
2.4 GHz
Network Name (SSID)
ASUS_40
Authentication Method
wPA2-Persona1 🗸
WPA Encryption
AES ¥
WPA-PSK key
banking_2345
5 GHz
Network Name (SSID)
ASUS_40
Authentication Method
WPA2-Personal 🗸
WPA Encryption
AES -
WPA-PSK key
banking_2345
Apply

2.4GHz / 5GHz security settings

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

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

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

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

Image: Construction of the construc

3.6.2 Managing your network clients

To manage your network clients:

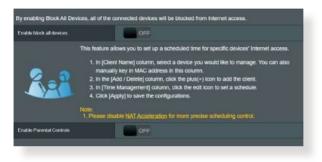
- 1. From the navigation panel, go to **General** > **Network Map**.
- 2. On the Network Map screen, select the **Client Status** icon to display your network client's information.
- 3. To block a client's access to your network, select the client and click **block**.

3.7 Parental Controls

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

To go to the Parental Controls main page:

From the navigation panel, go to **General** > **Parental Controls**.



Time Scheduling

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

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

	OFF		
Th	is feature allows you to set up a sch	duled time for specific devices	' Internet access
See No.	 In [Clerit Name] column, select a manually key in MAC address in 2. In the [Add / Delete] column, clic 3. In [Thme Management] column, of 4. Click [Apply] to save the configur te: Phase disable NAT Acceleration for 	this column. k the plus(+) icon to add the cil lick the edit icon to set a scheo atlons.	ient. Jule.
nable Parental Controls	ON		
System Time	Fri, Dec 29 15:37:21	2023	
Client List (Max Limit : 84)			
	Client Name (MAC Address)	Time Management	Add / Delete
select all v			
Select.all∨ Time ♥	PROFILE		⊕

To configure Time Scheduling:

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

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

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

3.8 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

System Log - General Log	
This page shows the detailed system's activit	ica,
System Time	Fri, Dec 29 16:18:07 2023
Uptime	0 days 1 hour(s) (12 minutels) 0 seconds
Remote Log Servor	
Remote Log Server Port	514 * The default part is 514. If you recordigued the part number, please make sure that the remote leg server or loT decreas' settings match your current configuration
Des 21 21 21 22	Apply 1
	* * //
	Clear Save

3.9 Traffic Manager

3.9.1 Managing QoS (Quality of Service) Bandwidth

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

	Quality of Service (QoS) ensures bandwidth for prioritized tasks and applications
	Adaptive OoS ansares inhowed and outboard benchatth on both sired and windows connecticines for prioritation applications and tables and drop presets; gamma, media streaming. Well? web surfing and the transforming of Traditional OoS innerse showed and cottomers bandwidth on both werd and winkies connections for prioritation applications and tables are amount later administ parameters. Bandwidth Limiter lets you set limits on download and upload speeds. To enable QoS Arxieton, click the QoS side switch and till in the uplead and download.
	Q45540
able QoS	OFF

To set up bandwidth priority:

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

NOTE: Get the bandwidth information from your ISP.

3. Click Apply.

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

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

NOTES:

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

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

NOTES:

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

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

3.10 Traffic Monitor

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

	Internet	Wred	Wineless
Reception		seconing parkets from weed redwork	incoming packets from whethers restwork
Transmission		Outgoing packattern winad network	
dis Monitor FA Internet Com 1925-39 KB 5		Wireless	Thu 02:29 pm / 454.10 Ki
717.77 88/3			
FTF.FT NB[3.			
512.70 KB/s			
256.35 KB/s			Ph.
256.35 KB/s Clane	nt Auera	ge Maximum	Teta
256.35 KE/S Curre 0.00 K			

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

3.11 WAN

3.11.1 Internet Connection

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

WAN - Internet Connection	
	to WAN (wide area network). These types are selected from the dropdown menu
	felds differ depending on the connection type you selected.
Configure the Ethemet WAN settings of RT-	AX52.
Basic Config	
WAN Connection Type	Automatic IP ~
Enable WAN	O Yos O No
Enable NAT	O Yes I No
Enable UPnP UPnP_EAQ	O Yas O No
WAN DNS Setting	
	DNS Server: 168:35-1 1, 168:95-192-1
DNS Server	Assign a DNS service to improve security, blick, advortacement and gain lizeder performance
Forward local domain queries to upstream DNS	• Yes O No
Enable DNS Robind protection	• Yes • No
Prevent client auto Doh	Auto 🗸
DNS Privacy Protocol	None
DHCP Option	
Class-identifier (Option 60)	
Client-identifier (Option 61)	
Account Settings	
Authentication	None 🗸
PPP Echo Interval	
PPP Echo Max Failures	10.
Special Requirement from ISP	
Host Name	
MAC Address	MAC Clone
LHCP query frequency	Aggressive Mode 🗸
Exked the TTL value	• Yes O Ne
Spoot LAN TTL value	● Yes O No
	Apply

To configure the WAN connection settings:

1. From the navigation panel, go to **Advanced Settings** > **WAN** > **Internet Connection**.

- 2. Configure the following settings below. When done, click **Apply**.
 - WAN Connection Type: Choose your Internet Service Provider type. The choices are Automatic IP, PPPOE, PPTP, L2TP or Static IP. Consult your ISP if the router is unable to obtain a valid IP address or if you are unsure the WAN connection type.
 - Enable WAN: Select Yes to allow the router Internet access. Select No to disable Internet access.
 - Enable NAT: NAT (Network Address Translation) is a system where one public IP (WAN IP) is used to provide Internet access to network clients with a private IP address in a LAN. The private IP address of each network client is saved in a NAT table and is used to route incoming data packets.
 - Enable UPnP: UPnP (Universal Plug and Play) allows several devices (such as routers, televisions, stereo systems, game consoles, and cellular phone), to be controlled via an IP-based network with or without a central control through a gateway. UPnP connects PCs of all form factors, providing a seamless network for remote configuration and data transfer. Using UPnP, a new network device is discovered automatically. Once connected to the network, devices can be remotely configured to support P2P applications, interactive gaming, video conferencing, and web or proxy servers. Unlike Port forwarding, which involves manually configuring port settings, UPnP automatically configures the router to accept incoming connections and direct requests to a specific PC on the local network.
 - Connect to DNS Server: Allows this router to get the DNS IP address from the ISP automatically. A DNS is a host on the Internet that translates Internet names to numeric IP addresses.

- **Authentication**: This item may be specified by some ISPs. Check with your ISP and fill them in if required.
- Host Name: This field allows you to provide a host name for your router. It is usually a special requirement from your ISP. If your ISP assigned a host name to your computer, enter the host name here.
- MAC Address: MAC (Media Access Control) address is a unique identifier for your networking device. Some ISPs monitor the MAC address of networking devices that connect to their service and reject any unrecognized device that attempt to connect. To avoid connection issues due to an unregistered MAC address, you can:
 - Contact your ISP and update the MAC address associated with your ISP service.
 - Clone or change the MAC address of the ASUS wireless router to match the MAC address of the previous networking device recognized by the ISP.

3.11.2 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.

Port Trigger allows you to temps two mathods for opaning incomi					
the time and devices must use s					
to the trigger port. Unlike port fo					
multiple devices to share a singl	e open port and port trigge	er only allows one c	tent at a time to access	the open port.	
Port Trigger FAQ					
Basic Config					
Enable Port Trigger	• Yes O	NO			
Well-Known Applications					
Trigger Port List (Max Limit : 32) ()				
Description	Trigger Port	Pintocol	Incoming Part	Protocol	Delate

To set up Port Trigger:

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

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

NOTES:

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

3.11.3 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.

	remote computers to connect to a specific computer or service within a private local are n, some P2P applications (such as BitTorrent), may also require that you set the port
	P2P application's user manual for details. You can open the multiple port or a range of
	gh those ports to a single client on your network.
If you want to specify a Port Range fo	r clients on the same network, enler the Service Name, the Port Range (e.g. 10200 1036
the LAN IP address, and leave the Lo	cal Port blank.
	bled and you set 80 as the HTTP server's port range for your WAN setup, then your http ict with ASUS Router's web user interface
ASUS Server's native FTP server.	ver's port range for your WAN setup, then your FTP server would be in conflict with sding_EAQ
ASUS Server's native FTP server. Virtual Server / Port Forwar	
ASUS Server's native FTP server. Virtual Server / Port Forwar Basic Config	ating_EAD
ASUS Server's native FTP server. Virtual Server / Port Forwar Basic Config Enable Port Forwarding	ating_EAD
ASUS Server's native FTP server, Virtual Server'/ Port Forwar Basie Config Enable Port Forwarding Port Forwarding List (Max Unait	ding_EA0 0≓≓ ; €4)

To set up Port Forwarding:

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

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

NOTES:

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

NOTE: Use a static IP address for the local client to make port forwarding work properly. Refer to section **3.5 LAN** for information.

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

To check if Port Forwarding has been configured successfully:

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

Differences between port trigger and port forwarding:

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

3.11.4 DMZ

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

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

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

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

To set up DMZ:

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

To remove DMZ:

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

3.11.5 DDNS

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



To set up DDNS:

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

NOTE:

DDNS service will not work under these conditions:

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

3.11.6 NAT Passthrough

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

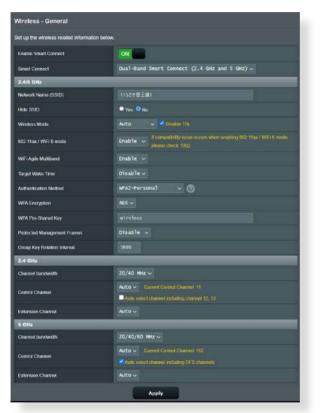
To enable / disable the NAT Passthrough settings, go to the **Advanced Settings** > **WAN** > **NAT Passthrough**. When done, click **Apply**.

PPTP Passificough	Enable 🛩	
L2TP Passifirough		
IPSec Passthrough	Enable 🛩	
RTSP Passihiough		
H,323 Passthrough		
SIP Passthrough		
PPPoE Relay		
FTP ALG port		

3.12 Wireless

3.12.1 General

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



To configure the basic wireless settings:

- 1. From the navigation panel, go to **Advanced Settings** > **Wireless** > **General**.
- 2. Select 2.4GHz or 5GHz as the frequency band for your wireless network.

3. Assign a unique name containing up to 32 characters for your SSID (Service Set Identifier) or network name to identify your wireless network. Wi-Fi devices can identify and connect to the wireless network via your assigned SSID. The SSIDs on the information banner are updated once new SSIDs are saved to the settings.

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

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

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

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

7. Select the operating channel for your wireless router. Select **Auto** to allow the wireless router to automatically select the channel that has the least amount of interference.

- 8. Select any of these authentication methods:
 - **Open System**: This option provides no security.
 - WPA/WPA2 Personal/WPA Auto-Personal: This option provides strong security. You can use either WPA (with TKIP), WPA2 (with AES) or WPA3. If you select this option, you must use TKIP + AES encryption and enter the WPA passphrase (network key).
 - WPA/WPA2 Enterprise/WPA Auto-Enterprise: This option provides very strong security. It is with integrated EAP server or an external RADIUS back-end authentication server.
- 9. When done, click **Apply**.

3.12.2 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.

	ı
Enable WPS	ON
Current Frequency	2.4GH2
Connection Status	
Configured	Yes Reset
AP PIN Code	12345670
 Method1: Cick the WPS button on the client's WU Mathod2: Start the client field and cick Start. Pleas wireless client does not s 	alent to the network in nilliter of these two ways. button on this interface (or press the physical WPS button on the router), then press the WPS N adapter and wait for about these minutes to make the connection. WPS process and got the clean IPA code. Enter the cleant't PN code on the Cleant PNN code se check the user manual of your wreakes cleant to see if it supports the WPS function. If your support the WPS function, you have to configure the wireless cleant manually and set the same ut security settings as this router.
	Push button Q Clent PIN Code

To enable WPS on your wireless network:

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

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

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

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

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

3.12.3 WDS

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

	Distribution System) function allows your RT-AX55 to con-	rect to an access point wirelessly.
WDS may also be considered a m		
corresponding authentication	en System/NONE, Open System/WEP) security authentica method, please select Legacy as your wireless mode that efer to this FAQ for more details.	
to enable WDS to extend the wire	less signal, please follow these steps :	
 Ensure that this wikeless of 3. Key in the remote AP mac router's MAC address. To get the best performanc bandwidth, control channel You are currently using the Au 	ndj mode and add MAC address of APs in Remote AP List ulter and the AP you want to connect to use the same chain in the remote AP and one in the remote AP WOS manue are, please go to Advanced Settings > Wheleves > General ar- , and extension channel to every router in the network. to channel bankwellt, Click ligzing to modify- ato channel. Click ligzing to modify. 00:500-stc : 102:80:00	gement interface, key in the this
5GHz MAC	00:90:4(:30:70:00	
Band	2.4GHz +	
AP Mode	AF Only +	
Connect to APs in list	9 Yes © No	
Contracting to you a minute		
Remote AP List (Max Limit :-	4)	
	4) Remote AP List	Add / Delete
		Add / Deleter

To set up the wireless bridge:

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

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

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

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

NOTE: Channel availability varies per country or region.

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

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

7. Click Apply.

3.12.4 Wireless MAC Filter

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

	throl packets from devices with specified MAC address	
Basic Config		
Band	2.4GHZ *	
Enable MAC Filter	O Yes ● No	
MAC Filler Mode		
MAC filter list (Max Limit : 64)		
	Client Name (MAC Address)	Add / Delet
		•
	No data in table.	

To set up the Wireless MAC filter:

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

3.12.5 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.

	additional parameters for authorizing wreless clients (d" in "Wireless - General" as "WPA Enterprise / WPA2	
Band	2. danz +	
Server IP Address		
Server Port	1812	
Connection Secret		

To set up wireless RADIUS settings:

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

NOTE: Please refer to section **3.12.1 General** section for configuring your wireless router's Authentication Mode.

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

3.12.6 Professional

The Professional screen provides advanced configuration options.

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

freless Professional Setting allows yo	u to set up additional parameters for wireless. But default values are recommended.
Rennske: The System true core is diffe	and from your Jocass section.
Bend	
Enable Radio	O Yes ● No
Enable wreless scheduler	• Yes © No
Set AP leolated	● Y83 © No
Roaming assistant	Enable • Disconnect clients with RSSI lower than -55 dBm
Bluetodh Coexistence	
Enable IGMP Snooping	
Multicast Rate(Mbps)	
Preamble Type	
AMPOURTS	
RTS Threshold	
OTIM Interval	
Beacon Interval	
Enable TX Bursting	Enable *
Enable WMM	Enable *
Enable WMM No-Acknowledgement	
Enable WMM APSD	
Modulation Scheme	Up to MCS 11 (NitroQAM/1024-QAM) +
Aitime Faimees	
Multi-User MIMO	Enable •
Explicit Beamforming	
Universal Beamforming	Enable •

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

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

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



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

- **DTIM Interval**: DTIM (Delivery Traffic Indication Message) Interval or Data Beacon Rate is the time interval before a signal is sent to a wireless device in sleep mode indicating that a data packet is awaiting delivery. The default value is three milliseconds.
- **Beacon Interval**: Beacon Interval is the time between one DTIM and the next. The default value is 100 milliseconds. Lower the Beacon Interval value for an unstable wireless connection or for roaming devices.
- **Enable TX Bursting**: Enable TX Bursting improves transmission speed between the wireless router and 802.11g devices.
- **Enable WMM APSD**: Enable WMM APSD (Wi-Fi Multimedia Automatic Power Save Delivery) to improve power management between wireless devices. Select **Disable** to switch off WMM APSD.

4 Utilities

NOTES:

- Download and install the wireless router's utilities from the ASUS website:
 - Device Discovery v1.4.7.1 at <u>https://dlcdnets.asus.com/pub/</u> <u>ASUS/wireless/ASUSWRT/Discovery_1483.zip?model=RT-AX52</u>
 - Firmware Restoration v1.9.0.4 at https://dlcdnets.asus.com/pub/ASUS/wireless/GT-AX6000/Rescue_2103.zip?model=RT-AX52
- The utilities are not supported on MAC OS.

4.1 Device Discovery

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

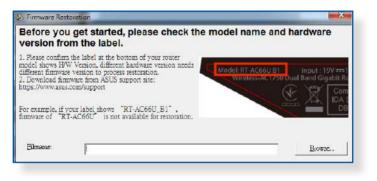
To launch the Device Discovery utility:

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

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

4.2 Firmware Restoration

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



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

NOTE: This feature is not supported on MAC OS.

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

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

IP address: 192.168.50.1

Subnet mask: 255.255.255.0

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

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

5 Troubleshooting

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

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

5.1 Basic Troubleshooting

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

Upgrade Firmware to the latest version.

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

ote:	
1. The latest ferminary war	sion include updates on the provides version.
	ameter existing both in the old and new firmware, its setting will be kept during the upgrade
process	
	cess fails, enters the emergency mode automatically. The LED signals at the front will indicate
such a situation. Use th	e Firmware Restoration utility on the CD to do system recovery.
	version from ASUS Support site at http://www.asus.com/support/
	version from ASUS Support site at http://www.asus.com/support/
	version from ASUS Support site at http://www.asus.com/support/
	version from ASUS Support site at http://homm.asus.com/support/
4. Get the latest firmware	version from ASUS Support site at <u>btip/liferew.asus.com/support</u>
4. Get the latest firmware	
4. Get the latest firmware Firmware Version Check Update	
4. Get the latest firmware	Check
4. Get the latest firmware Firmware Version Check Update	

- 2. If the latest firmware is available, visit the ASUS global website at <u>https://www.asus.com/networking-iot-servers/wifi-routers/</u><u>asus-wifi-routers/rt-ax52/helpdesk_bios?model2Name=RT-AX52</u> to download the latest firmware.
- 3. From the **Firmware Upgrade** page, click **Browse** to locate the firmware file.

4. Click **Upload** to upgrade the firmware.

Restart your network in the following sequence:

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

Check if your Ethernet cables are plugged properly.

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

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

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

Check if your network settings are correct.

• Each client on the network should have a valid IP address. ASUS

recommends that you use the wireless router's DHCP server to assign IP addresses to computers on your network.

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

	Client status
Connected WAN IP: 10.10.163.159 DDNS: CO	Online Wired (1)
UDINS: SUD	A1605047-NE2 192.166.50.198 80:65.97/10:81:7A
Security level: WPA2-Personal A	80:60:97:10:81:7A
Clents: 1	
View List	
AiMesh Node: 0	

5.2 Frequently Asked Questions (FAQs)

I cannot access the router GUI using a web browser

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



NOTES:

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

The client cannot establish a wireless connection with the router.

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

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

LAN - DHCP Server				
DHCP (Dynamic Host Configuration Proto can assign each client an IP address and to 253 IP addresses for your local network Nanually Assigned IP around the	Informs the client of L			
Basic Config				2
Enable the DHCP Server	Q Y05 ○ No			
RT-AX52's Domain Name				
IP Pool Starting Address				
IP Pool Ending Address				
Lease lime (seconds)				
Default Gateway				
DN5 and WINS Server Setting				
DNS Server 1				
DNS Server 2				
Advertise router's IP in addition to user- specified DNS	Q Yes • No			
WINS Server				
Manual Assignment		_		
Enable Manual Assignment	🔍 Yas 🔍 No			
Manually Assigned IP around the Di-	ICP list (Max Limi	t : 64)	_	
Cient Name (MAC Address)	IP Address	DNS Server (Optionel)	Host Name (Optional)	Add / Delete
				Ð
		oply		
		Service and Service Ser		

 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.

Lup the wireless related information	
nable Smart Connect	ON
mart Connect	Dual-Band Smart Connect (2.4 GHz and 5 GHz) \sim
.46 GHz	
www.k.Name (SSID)	
ide SSID	Ves O No
Venkess Mode	
02.11ax / WFI 5 mode	Enable Floor field the same occurs when enabling M2 that I WFI 6 mode, glosse check: FAQ
VF Agla Muttband	Enable 🛩
arget Wake Time	Disable -
uthentication Method	WPA2-Personal v 🛞
VFA Encryption	
VFW. Pro-Shared Key	
notected Management Frames	Disable 👻
ioup Key Rotation Interval	
A GHz	
hannel bandwidth	20/40 MHz ~
cotrol Channel	Auto - Gurrent Cantal Diamet 11
	Auto select channel including channel 12, 13
stension Channel	
OHz	
hannel bandwidth	20/40/80 MHz ~
ontrol Channel	
xtension Channel	Auto 🛩

• 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.

is tinetion store you to even	surrent settings to a file, or load se	Piece from a lie
ns nuncuum anowe you to save (correct securitys to a site, or load se	ungs auch a me
Factory default	Restore	Initialize
Save setting	Save	
Rostoro setting	Upload	CITES -INTERNA

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 Controls 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.

Parental Controls			
By enabling Block All Devices	s, all of the connected devices will be bl	ocked from Internet access.	
Enable block all devices	ON.		
Th	is leature allows you to set up a schedu 1. In (Client Name) column, select a d		
	manually key in MAC address in the 2. In the [Add / Delete] column, click t 3. In [Time Management] column, clic 4. Click [Apply] to save the configuration line. Please deable <u>NAT Acceleration</u> for m	he plus(+) icon to add the cli k the edit icon to set a scheo ons	lule.
Enable Parental Controls			
System Time	Fri, Dec 29 16:28:37 20	123	
Client List (Max Limit : 64)			
Select all ~	Client Name (MAC Address)	Time Management	Add / Delete
		-	Ð
	No data in table.		
	Apply)	

• 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.

Firmware upgrade failed.

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

Cannot access Web GUI

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

A. Disable the proxy server, if enabled.

Windows®

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



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

	guration ma	y override man ble automatic o		gs. To ensure the
Automatical	ly detect set	tings		
Use automa	tic configura	tion script		
Address]
hoxy server				
lise a proxy dial-up or V	server for y M connectio	our LAN (These ns).	e settings	will not apply to
Address		Pater	30	Advanced
1000200000	and a second	for local addre	0000	
				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. Click **Apply Now** when done.

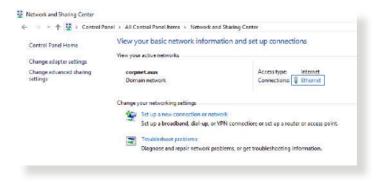
	Location:	Automatic	:	
	Show: (Built-in Ethernet	:	
	TCP/IP PPP	oE AppleTalk Pro	oxies Ethernet	
Select a prox	y server to conf	Noure: FTP Pr	oxy Server	
FTP Pros	Carron an Sole Status	2		
	(HTTP)	TPro	xy server requires p	brook
	eb Proxy (HTTPS g Proxy (RTSP)	·	(Set Password.	
SOCKS P		5	(ser easswerd	
		1		
Gopher	TUXY			
Gopher Bypass prox these Hosts	settings for			
Bypass prox	settings for			

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

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

Windows®

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



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

Ethemet Properties

4

4

Networking Authentication Connect using

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

 Internet Protocol Version 6 (TCP/IPv6)
 Internet Protocol Version 6 (TCP/IPv6)
 Internet Protocol Version 6 (TCP/IPv6) Link-Layer Topology Discovery Mapper I/O Driver

This connection uses the following items Microsoft LLDP Protocol Driver

Configure...

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

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

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

5. Click **OK** when done.

Description				
Transmission Control Pro wide area network proto ecross diverse intercom	col that provide	commu		
net Protocol Version 4 (TCP/IPv4) Prope	rties		
eral Alternate Configura	bon			
CANAL PROPERTY AND ADDRESS OF TAXABLE PARTY.				
u can get IP settings assig				
u can get IP settings assig s capability. Otherwise, yo the appropriate IP setting	ou need to ask yo	ur netwo	rk admir	istrator
s capability. Otherwise, yi	ou need to ask yo	ur netwo	rk admin	istrator
s capability. Otherwise, yi	ou need to ask yo gs	ur netwo	rk admin	istrator
s capability. Otherwise, yi the appropriate IP settin Obtain an IP address a	ou need to ask yo gs. utomatically	ur netwo	rk admir	istrator
s capability. Otherwise, yi the appropriate IP settin Obtain an IP address a Use the following IP ad	ou need to ask yo gs. utomatically	ur netwo	rk admir	istrator
s capability. Otherwise, yi the appropriate IP settin Obtain an IP address a	ou need to ask yo gs. utomatically	or netwo	rkadmin	is trator
s capability. Otherwise, yi the appropriate IP settin Obtain an IP address a Use the following IP ad	ou need to ask yo gs. utomatically	or netwo	rkadmin	is trator
s capability: Otherwise, yi the appropriate IP setting Obtain an IP address a Use the following IP ad IP address Subret maski	ou need to ask yo gs. utomatically	41 14	rkadmin	is trator
s capability. Otherwise, vi the appropriate IP setting Obtain an IP address a Use the following IP ad IF address	ou need to ask yo gs. utomatically	41 14	rk admin	istrator
s capability: Otherwise, y the appropriate IP setting Obtain an IP address a Use the following IP add IP address Subnet masks Default gateway:	ou need to ask yo gs. utomatically dress:		rk admin	istrator
e capabity: Otherwise, wi the appropriate IP setting @ Obtain an IP address a Ouse the following IP ad IP address: Saturet musch Default pateway: @ Obtain DNS server add	ou need to ask yo gs, utomatically dress:	41 (4 AV 01 71 (7	rk admin	is trator
e capabity: Otherwise, wi the appropriate IP setting @ Obtain an IP address a _use the following IP ad IP address: Subnet maski Cefault cateway: @ Obtain DNS server add _use the following DNS set	ou need to ask yo gs, utomatically dress:	41 (4 AV 01 71 (7	vik admin	
e capabity: Otherwise, wi the appropriate IP setting @ Obtain an IP address a Ouse the following IP ad IP address: Saturet musch Default pateway: @ Obtain DNS server add	ou need to ask yo gs, utomatically dress:	41 (4 AV 01 71 (7	rk admin	istrator
e capabity: Otherwise, wi the appropriate IP setting @ Obtain an IP address a _use the following IP ad IP address: Subnet maski Cefault cateway: @ Obtain DNS server add _use the following DNS set	ou need to ask yo gs, utomatically dress:	41 (4 AV 01 71 (7	rk admin	
s capabity: Otherwise, wi the appropriate IP actin © Obtain an IP address a Juse the following IP ad IP address: Subnet missfi Default gateway: © Obtain DNS server add O Use the following DNS is Intelered CR3 server:	ou need to ask yo gs, utomatically dress:	41 (4 AV 01 71 (7	rk admin	
e capably: Other kee, y the appropriate IP settine Quarter appropriate IP settine Quarter for Balances IP IP address: Salares missi Caffaith gateway: Quarter for Balances Quarter for Balances Quarter for Balances Charter for Balances Charte	ou need to ask yo ge. utomatically dress:	41 (4 AV 01 71 (7		
s capabity: Otherwise, wi the appropriate IP actin © Obtain an IP address a Juse the following IP ad IP address: Subnet missfi Default gateway: © Obtain DNS server add O Use the following DNS is Intelered CR3 server:	ou need to ask yo ge. utomatically dress:	41 (4 AV 01 71 (7 A)		is trator

MAC OS

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

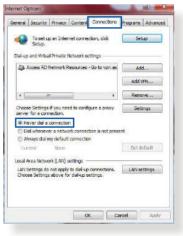
Shaw All	Displays	Sound	Network	Startup Dick			
		Loca	tion: A	Itomatic			
		S	how: B	uilt-in Ether	net	•	
_	-0	TCP/IP	PPPoE	AppleTa	lk Proxies	Ethernet	3
c	onfigure I	Pv4: [1	ising DH	2P		•	
	(P Add	ess: 1	92.168.1	82.103		Renew	DHCP Lease
	Subnet M	ask: 2	55.255.2	55.0	DHCP Clien		
	80	iter 1	92.168.1	82.250		(If regi	dred)
	DNS Sen	vers: 1	92.168.1	28.10			(Optional)
Se	arch Domi	ains:					(Optional)
	IPv6 Add	ess fe	80:0000:	0000:0000	0211:24ff:fe	32:b18e	
		C	Configure	IPv6)			$(\hat{\imath})$

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

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

Windows®

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



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

Appendices

Notices

This device is an Energy Related Product (ErP) with High Network Availability (HiNA), the power consumption will be less than 12watts when the system is in network standby mode (idle mode).

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.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 except in accordance with FCC multi-transmitter product procedures. For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels in not possible.

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 Ecodesign directive 2009/125/EC

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

Simplified EU Declaration of Conformity

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

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 24 cm between the radiator & your body.

All operational modes:

- 2.4GHz: 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20), 802.11ac (VHT40), 802.11ax(HE20), 802.11ax(HE40)
- 5GHz: 802.11a, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20), 802.11ac (VHT40), 802.11ac (VHT80), 802.11ax(HE20), 802.11ax(HE40), 802.11ax(HE80)

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

```
2412-2472MHz (802.11g 6Mbps): 19.96 dBm
5180-5240MHz (802.11ac VHT20 MCS0): 22.97 dBm
5260-5320MHz (802.11ac VHT40 MCS0): 22.97 dBm
5500-5700MHz (802.11ac VHT80 MCS0): 29.98 dBm
```

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

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

Canada, Industry Canada (IC) Notices

This device complies with Industry Canada's license-exempt RSSs. 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.

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to cochannel mobile satellite systems.

Radio Frequency (RF) Exposure Information

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

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and any part of your 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)

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

Son utilisation est sujette aux deux conditions suivantes : (1) cet appareil ne doit pas créer d'interférences et (2) cet appareil doit tolérer tout type d'interférences, y compris celles susceptibles de provoquer un fonctionnement non souhaité de l'appareil.

Les dispositifs fonctionnant dans la bande de 5 150 à 5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans I ASUS est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l'appareil de sans I ASUS de façon à minimiser les contacts humains lors du fonctionnement normal.

Cet équipement doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et toute partie de votre corps.

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

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

Pour des informations supplémentaires concernant l'exposition aux RF au Canada rendezvous sur :

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

Precautions for the use of the device

- Do not use the ASUS product in this situation (Driving, in airports, hospitals, gas stations and professional garages).
- Medical device interference: Maintain a minimum distance of at least 15 cm (6 inches) between implanted medical devices and ASUS products in order to reduce the risk of interference, especially, during the phone call.
- Kindly use ASUS products in good reception conditions in order to minimize the radiation's level.
- Use the hand-free device, especially, during the communication situation, in order to keep the device away from pregnant women and the lower abdomen of the teenager (Especially, using cell phone).

NCC 警語

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*應避免影響附近雷達系統之操作。

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「產品之限用物質含有情況」之相關資訊 請參考下表:

		限用物質及其化學符號						
單元	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr ⁺⁶)	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)		
印刷電路板及 電子組件		0	0	0	0	0		
外殼	0	0	0	0	0	0		
天線	_	0	0	0	0	0		
其他及其配件	_	0	0	0	0	0		
	備考1. "〇"係指該項限用物質之百分比含量未超出百分比含量基準值。 備考2. "一"係指該項限用物質為排除項目。							





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				有害物质		
部件名称	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板及 其电子组件	×	0	0	0	0	0
外壳	0	0	0	0	0	0
电源适配器	×	0	0	0	0	0
外部信号连接 头及线材	×	0	0	0	0	0
中央处理器与 内容	×	0	0	0	0	0

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Version 2, June 1991

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END OF TERMS AND CONDITIONS

Safety Notices

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



WARNING!

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



WARNING!

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

Service and Support

Visit our multi-language website at https://www.asus.com/support.



tehnotzka

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