ASUS RT-AX59U

ASUS RT-AX59U WiFi 6 Router Instruction Manual

MODEL: RT-AX59U

Brand: ASUS

1. INTRODUCTION

The ASUS RT-AX59U is an ultrafast WiFi 6 dual-band router designed to provide reliable and high-speed connectivity for both home and small to medium-sized enterprise (SME) environments. Featuring a powerful quad-core CPU and support for 160 MHz channels, it delivers speeds up to 4,200 Mbps. Its innovative design allows for versatile placement on desktops or wall mounting, blending seamlessly into any setting. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your RT-AX59U router.
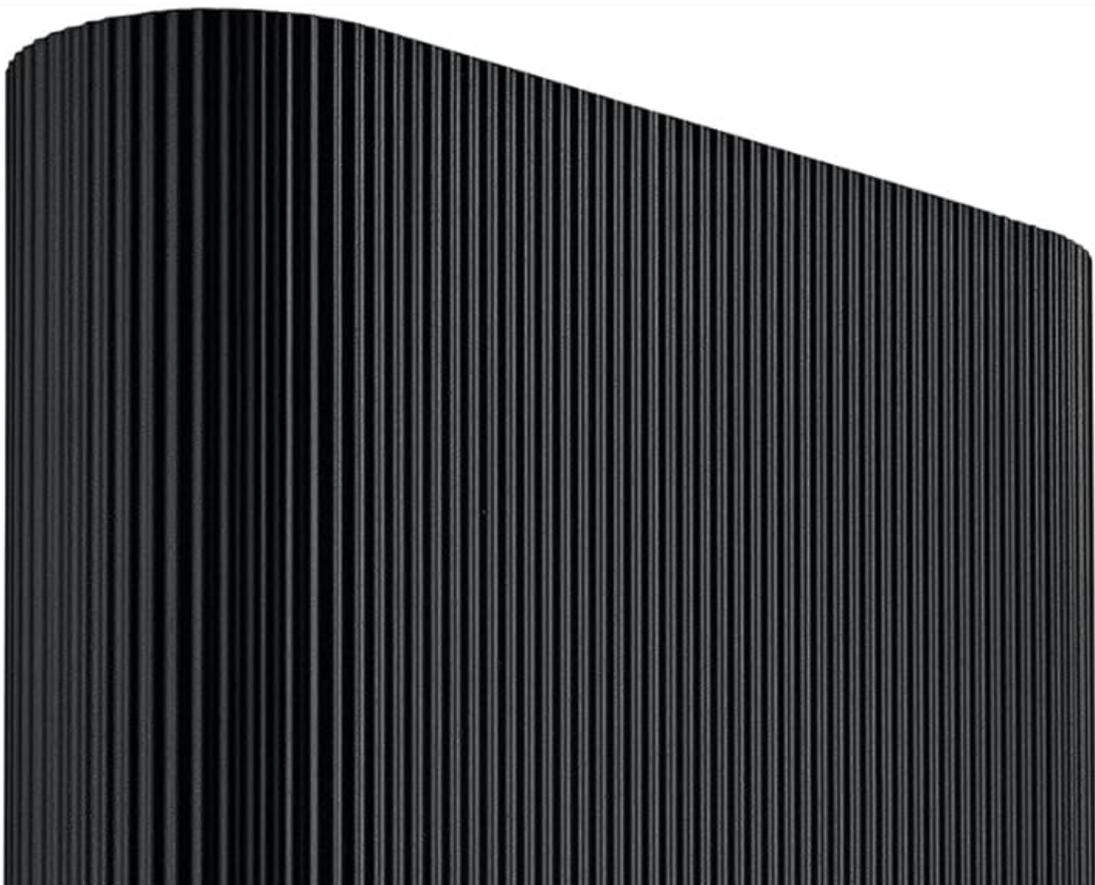
Figure 1.1: ASUS RT-AX59U WiFi 6 Router

2. SETUP GUIDE

Follow these steps to set up your ASUS RT-AX59U router for the first time. Ensure all cables are securely connected before powering on the device.

1. **Unpack and Connect:** Remove the router from its packaging. Connect the power adapter to the router's DC-IN port and plug it into a power outlet. Connect one end of the provided Ethernet cable to the router's **1G WAN port** (blue) and the other end to your modem's LAN port.

2. **Power On:** Press the Power button on the router. Wait for the indicator lights to stabilize, which typically takes a few minutes.

3. **Initial Configuration:** You can configure the router using the ASUS Router app on your smartphone or via a web browser on a computer.

- **Using ASUS Router App:** Download the ASUS Router app from your device's app store. Open the app and follow the on-screen instructions to detect and set up your new router.
- **Using Web Browser:** Connect your computer to the router via Wi-Fi (using the default SSID and password found on the router's label) or via an Ethernet cable to one of the **Gigabit LAN ports** (yellow). Open a web browser and navigate to router.asus.com or 192.168.1.1. Follow the setup wizard to configure your internet connection and Wi-Fi settings.

Figure 2.1: Easy Setup via ASUS Router App

3. OPERATING INSTRUCTIONS

Once set up, your ASUS RT-AX59U router provides a robust network for your devices. Here are key operational aspects:

- **Connecting Devices:** Connect your Wi-Fi enabled devices (laptops, smartphones, smart TVs) to the router's Wi-Fi network using the SSID (network name) and password you configured during setup. For wired connections, use the Gigabit LAN ports.
- **Managing Settings:** Access the router's web interface (router.asus.com) or the ASUS Router app to manage network settings, view connected devices, update firmware, and configure advanced features.
- **Guest Network:** Create separate guest Wi-Fi networks to provide internet access to visitors without giving

them access to your main network or connected devices.

- **Mobile Tethering:** Utilize the mobile tethering feature by connecting a compatible 4G/5G USB dongle to the router's USB port. This allows the router to use your mobile data connection as a primary or backup internet source.

Figure 3.1: Mobile Tethering Capability

4. KEY FEATURES

The ASUS RT-AX59U is equipped with several advanced features to enhance your networking experience:

4.1. WiFi 6 (802.11ax) Performance

Experience ultrafast speeds and improved efficiency with WiFi 6 technology. The RT-AX59U supports dual-band operation and 160 MHz channels, delivering up to 4,200 Mbps for smooth streaming, gaming, and browsing across multiple devices.

Built for Smart Home
Powerful quad-core CPU and WiFi 6

4200Mbps
Dual band

160MHz
Channel Support

Figure 4.1: WiFi 6 for Smart Home Environments

4.2. AiMesh System

Expand your Wi-Fi coverage seamlessly by adding any AiMesh-compatible ASUS router. The AiMesh system creates a single, unified network, eliminating dead zones and providing consistent, strong Wi-Fi signals throughout your home or office.

Figure 4.2: AiMesh Network Coverage

4.3. AiProtection Pro, Safe Browsing & Parental Controls

Enjoy commercial-grade network security with AiProtection Pro, powered by Trend Micro. This suite of features includes:

- **One-Tap Safe Browsing:** Block undesirable content and protect your family from malicious websites.

- **Advanced Parental Controls:** Monitor internet activity, filter explicit content, and customize internet access schedules for each connected device without extra cost.

- **Instant Guard VPN:** Create a secure VPN connection to your home network when you are away, ensuring your data remains private and secure.
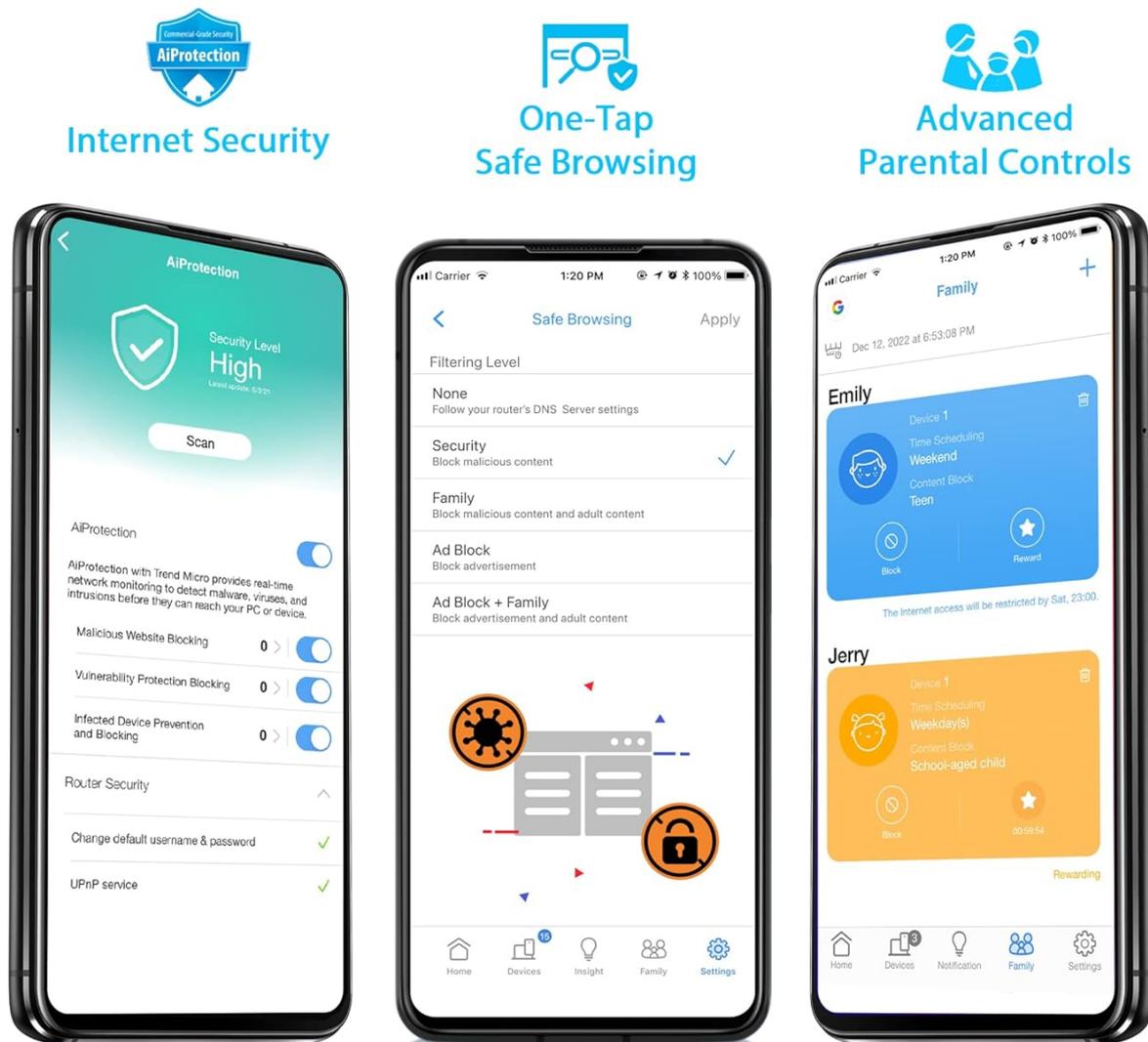
Figure 4.3: Security and Parental Control Features

4.4. Versatile Connectivity

The RT-AX59U offers dual USB ports (USB 3.2 Gen 1x1 and USB 2.0) for enhanced functionality, including:

- **Media Server:** Share media files across your network.

- **Printer Server:** Connect a USB printer and share it with all network devices.

- **File Server:** Access files on a connected USB storage device (Samba/FTP).

- **WAN Backup:** Use a 3G/4G/5G USB dongle for internet backup.

Versatile Connectivity

Dual USB ports for media sharing and WAN backup

Gigabit LAN ports x3

1G WAN port

USB 3.2 Gen 1x1

USB 2.0 port

Power button

DC-IN port

WPS button

Reset button

SD-WAN
(3G/4G/5G)

Media Server
(DLNA/UPnP)

Printer Server

File Server
(Samba/FTP)

Download
Master

Figure 4.4: Rear View with Connectivity Ports

4.5. Product Overview Video

For a visual overview of the ASUS RT-AX59U router and its features, please watch the official product summary video below.

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Video 4.5: Official Product Summary Video for ASUS RT-AX59U. This video provides a brief visual demonstration of the router's design and key functionalities.

5. MAINTENANCE

Proper maintenance ensures optimal performance and longevity of your router:

- **Firmware Updates:** Regularly check for and install the latest firmware updates via the ASUS Router app or

web interface. Firmware updates often include performance improvements, security patches, and new features.

- **Optimal Placement:** Place the router in a central location, away from obstructions, large metal objects, and other electronic devices that may cause interference.
- **Cleaning:** Keep the router clean and free from dust. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners.
- **Restart Periodically:** Periodically restarting your router (e.g., once a month) can help clear its memory and resolve minor performance issues.

6. TROUBLESHOOTING

If you encounter issues with your ASUS RT-AX59U router, refer to the following common problems and solutions:

Problem	Possible Solution
No Internet Connection	- Check all cable connections (modem to router, router to power). - Restart both your modem and router. - Verify your internet service provider (ISP) connection is active. - Ensure the WAN indicator light on the router is solid.
Slow Wi-Fi Speed	- Move closer to the router or relocate the router to a more central position. - Reduce interference from other electronic devices. - Ensure your devices support WiFi 6 for optimal performance. - Check for firmware updates. - Consider using the AiMesh feature to extend coverage if needed.
Wi-Fi Disconnects Frequently	- Update router firmware and device drivers. - Adjust Wi-Fi channel settings in the router interface to avoid crowded channels. - Ensure the router is not overheating. - Perform a factory reset if issues persist (note: this will erase all settings).
Cannot Access Router Settings Page	- Ensure your device is connected to the router's network. - Try accessing router.asus.com or 192.168.1.1. - Clear your browser's cache or try a different browser. - Temporarily disable any VPN or proxy software.

7. SPECIFICATIONS

Key technical specifications for the ASUS RT-AX59U router:

Feature	Detail
Model Name	ASUS RT-AX59U

Feature	Detail
Item Model Number	90IG07Z0-MU2C00
Wireless Standard	802.11ax (WiFi 6)
Wireless Type	802.11ax
Frequency Band Class	Dual-Band
Data Rate	Up to 4200 Mbps (AX4200)
CPU	Powerful Quad-Core CPU
Ports	1x 1G WAN, 3x Gigabit LAN, 1x USB 3.2 Gen 1x1, 1x USB 2.0
Operating System	ASUSWRT
Product Dimensions	20 x 15 x 15 cm
Item Weight	1.05 kg
Included Components	Router, Set-up Guide, Warranty Card

8. WARRANTY AND SUPPORT

Your ASUS RT-AX59U router comes with a manufacturer's warranty. Please refer to the included warranty card for specific terms and conditions, including warranty duration and coverage details.

For technical support, driver downloads, firmware updates, and additional resources, please visit the official ASUS support website. You can typically find the support link on the ASUS product page or by searching for "ASUS Support" online.

When contacting support, please have your router's model name (RT-AX59U) and serial number (found on the product label) ready to assist the support team more efficiently.

Related Documents - RT-AX59U

User Guide

RT-AX59U
Dual Band Wi-Fi Router

ASUS

[ASUS RT-AX59U Dual Band Wi-Fi Router User Guide](#)
Comprehensive user guide for the ASUS RT-AX59U Dual Band Wi-Fi Router, covering setup, configuration, features, and troubleshooting.

	[ASUS ROG Rapture GT-AX6000 User Manual](#) Comprehensive user manual for the ASUS ROG Rapture GT-AX6000 Dual Band Gaming Router, covering setup, configuration, advanced settings, utilities, and troubleshooting.
	[ASUS TUF Gaming AX6000 WiFi 6 Gaming Router - High-Performance Networking](#) Discover the ASUS TUF Gaming AX6000, a powerful dual-band WiFi 6 gaming router offering ultra-fast speeds, dedicated gaming ports, dual 2.5Gbps connectivity, AiMesh support, and robust AiProtection Pro security for an optimized home network experience.
	[ASUS RT-BE92U BE9700 Tri-band WiFi 7 Router User Guide](#) Comprehensive user guide for the ASUS RT-BE92U BE9700 Tri-band WiFi 7 Router, covering setup, features, tutorials, troubleshooting, and safety information.
	[ASUS RT-AX88U PRO AX6000 Dual Band Wi-Fi Router User Guide](#) Explore the capabilities of the ASUS RT-AX88U PRO AX6000 Dual Band Wi-Fi Router with this comprehensive user guide. Learn about setup, advanced configuration, AiProtection, AiCloud, QoS, and troubleshooting for a seamless home network experience.
	[ASUS ZenWiFi XD6 AX5400 Dual Band WiFi Router Quick Start Guide](#) Quick Start Guide for the ASUS ZenWiFi XD6 AX5400 Dual Band WiFi Router. Learn how to set up your router, configure AiMesh, use the ASUS Router App, and find troubleshooting tips for a seamless home networking experience.