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> [ASUS ROG Rapture WiFi 6 AX Gaming Router \(GT-AX6000\) Dual 2.5G WAN/LAN Ports, Quad-Core 2.0Ghz CPU, WAN Aggregation, AiMesh Compatible, Lifetime Internet Security, Instant Guard, Aura RGB](#)

ASUS GT-AX6000

ASUS ROG Rapture GT-AX6000 WiFi 6 AX Gaming Router User Manual

Model: GT-AX6000 | Brand: ASUS

INTRODUCTION

The ASUS ROG Rapture GT-AX6000 is a high-performance WiFi 6 dual-band gaming router designed to enhance your gaming experience and network connectivity. It features dual 2.5G WAN/LAN ports, a powerful quad-core 2.0Ghz CPU, WAN aggregation, AiMesh compatibility, and advanced security features. This manual provides comprehensive instructions for setting up, operating, maintaining, and troubleshooting your router.

SAFETY INFORMATION

- Ensure the router is placed in a well-ventilated area to prevent overheating.
- Use only the power adapter provided with the device.
- Keep the device away from water, fire, and high temperatures.
- Do not attempt to open or repair the device yourself. Refer to qualified service personnel.
- Avoid placing the router near strong electromagnetic fields.

WHAT'S IN THE BOX

- GT-AX6000 WiFi 6 Dual-Band Gaming Router
- RJ-45 cable
- Power adapter
- Warranty card
- Quick start guide



Image: The ASUS ROG Rapture GT-AX6000 router with its included accessories.

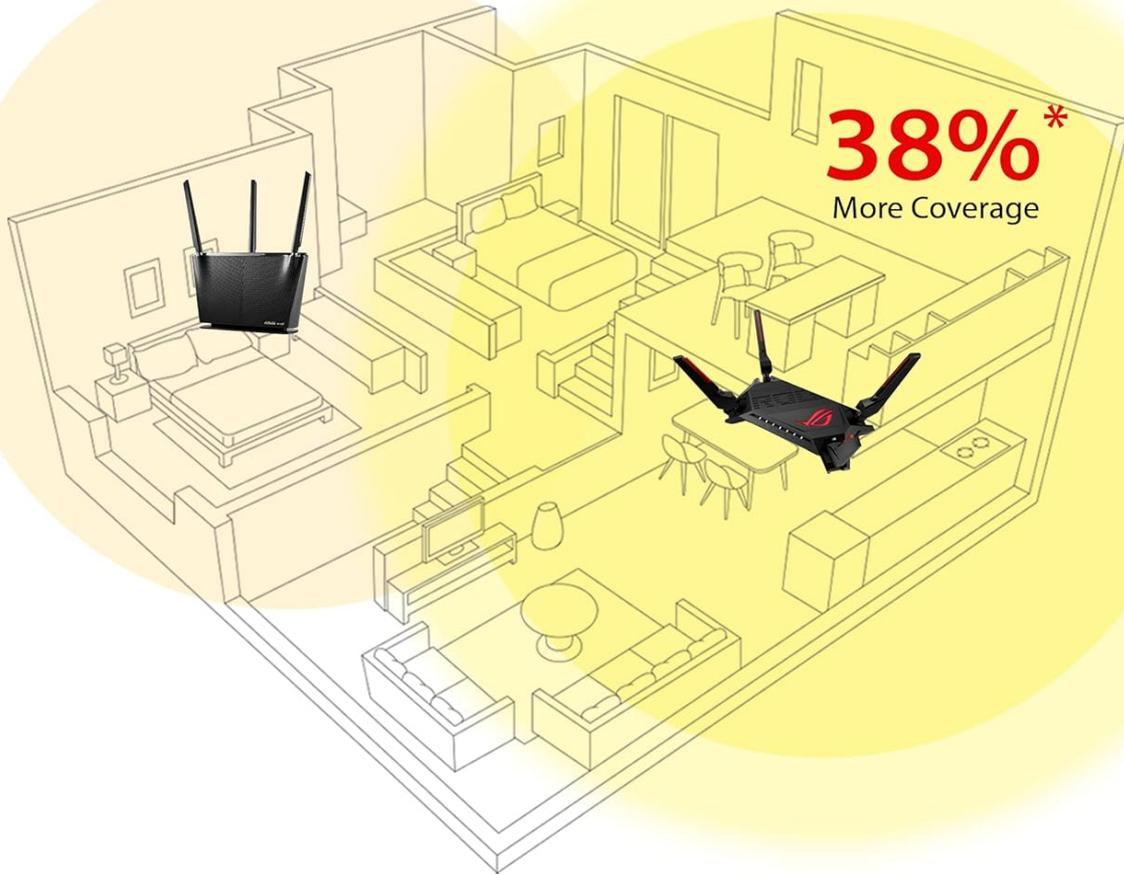
SETUP

1. Physical Connection

1. Connect the provided power adapter to the router's DC-in port and plug it into a power outlet.
2. Connect one end of the RJ-45 cable to your modem's LAN port and the other end to the router's 2.5G WAN port (blue port).
3. For wired devices, connect them to any of the router's LAN ports.
4. Ensure all antennas are securely attached and positioned for optimal signal coverage.

Whole-home coverage with ASUS AiMesh

Make your WiFi system further by connecting multiple routers and RangeBoost Plus



*38% improvement in range measured using WiFi 6 client connected at 200 Mbps to WiFi 6 router with RangeBoost Plus, compared to same WiFi 6 client connected at 200 Mbps to WiFi 5 router without RangeBoost Plus.

Image: Rear view of the GT-AX6000 router, highlighting the dual 2.5G WAN/LAN ports for high-speed connections.

2. Initial Configuration

You can configure your router using the ASUS Router app or a web browser.

Using the ASUS Router App:

1. Download the ASUS Router app from your mobile device's app store.
2. Connect your mobile device to the router's default Wi-Fi network (SSID and password are on the router's label).
3. Open the app and follow the on-screen instructions to complete the setup.

Using a Web Browser:

1. Connect your computer to the router via an Ethernet cable or its default Wi-Fi network.
2. Open a web browser and navigate to router.asus.com or 192.168.1.1.
3. Follow the on-screen wizard to set up your internet connection and Wi-Fi settings.

3. Registering Your Router via ASUS Router App

Registering your router with your ASUS account allows for quick access to customer support and product benefits.

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Video: "How to register my ASUS router via ASUS Router app End Card" - This video demonstrates the step-by-step process of registering your ASUS router using the ASUS Router mobile application, ensuring you can access product support and benefits.

OPERATING

Key Features and Usage

High-Efficiency WiFi 6 (802.11ax)

The GT-AX6000 supports WiFi 6, offering ultrafast speeds up to 6000 Mbps with 160 MHz channels for better efficiency and throughput. This technology is optimized for multi-device environments, providing 4X better performance for multiple devices, 2X faster WiFi speed, 7X better battery life for connected devices, and 80% increased WiFi range compared to previous generations.

WiFi 6 Standard (802.11ax)

OFDMA | TWT | MU-MIMO | 160MHz

4X

For Multi-Devices

2X

WiFi Speed

7X

Battery Life

80%↑

WiFi Range

GT-AX6000

up to **6000 Mbps**



WiFi 5

2.4GHz 2x2 + 5GHz 4x4

up to 2700Mbps



up to **2X**

Faster Speed

*Each feature requires compatible devices for best performance result

Image: Visual representation of WiFi 6 benefits, including increased speed, range, and efficiency for multiple devices.

Dual 2.5G Ports

Equipped with dual 2.5G ports, the router allows traffic through these ports to have top priority. This provides flexible WAN/LAN network port configurations, enabling high-speed internet access and fast local network transfers.

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Video: "GT_AX6000 Asus Router Product Feature 2" - This video highlights the dual 2.5G ports of the GT-AX6000 router, demonstrating their role in providing high bandwidth and flexible network configurations.

Extreme Quad-Core CPU Power

A high-performance 2.0 GHz quad-core CPU takes the router's computational capabilities to the next level, ensuring smooth operation even under heavy network loads.

Triple-Level Game Acceleration

The router accelerates game traffic every step of the way from your device to the game server, significantly reducing ping and latency. This is achieved through Device Prioritization (Gaming Port), Game Packet Prioritization (Game Boost), and Shortest Path to Game Server (GPN).

Triple-level Game Acceleration

Boost game packets from device to game server

Up to 90% Lower Ping

1. Device Prioritization – Gaming Port
2. Game Packet Prioritization – Game Boost
3. Shortest Path to Game Server – GPN



Image: A diagram showing the three levels of game acceleration: Gaming Device to GT-AX6000, GT-AX6000 to Game Server, and the overall reduction in ping.

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Video: "GT-AX6000 Asus Wireless router product feature 1" - This video showcases the gaming features of the GT-AX6000, including console prioritization and the benefits of its dedicated gaming port for an optimized gaming experience.

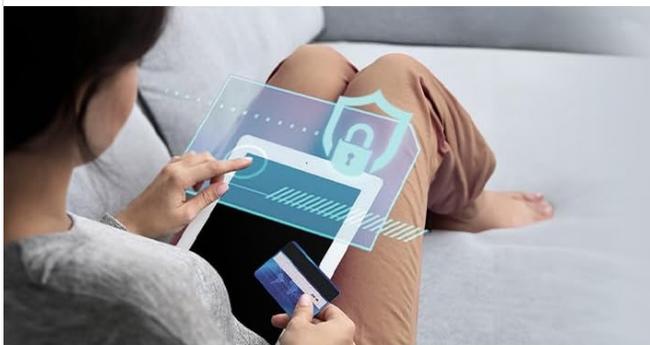
Mobile Game Mode

Minimize lag and latency for mobile gaming with just a tap on the ASUS Router app, ensuring a smooth and responsive mobile gaming experience.

AiMesh Compatible

The GT-AX6000 is AiMesh compatible, allowing you to create a whole-home mesh WiFi system by connecting multiple AiMesh-compatible ASUS routers. This extends your WiFi coverage and eliminates dead zones.

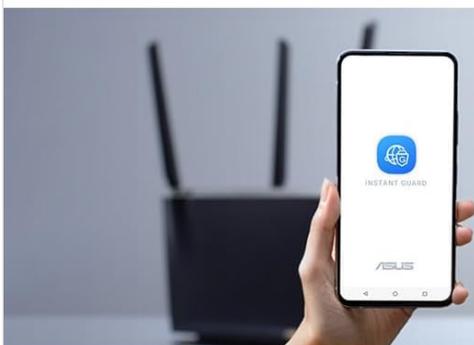
Save BIG with ASUS. Our routers come fully featured with no trials or subscriptions



Commercial Grade Security Included



Advanced Parental Controls Included



Built-in VPN + Fusion and Instant Guard Included



Image: An illustration demonstrating how ASUS AiMesh provides whole-home WiFi coverage by connecting multiple routers, showing a 38% improvement in range.

Lifetime Internet Security & Instant Guard

The router includes commercial-grade security features and Instant Guard, providing robust protection for your network and connected devices without additional subscriptions.

WiFi 6



Image: A visual summary of included features such as Commercial Grade Security, Advanced Parental Controls, and Built-in VPN + Instant Guard.

MAINTENANCE

- **Firmware Updates:** Regularly check for and install the latest firmware updates via the ASUS Router app or web interface to ensure optimal performance, security, and access to new features.
- **Cleaning:** Gently clean the router's exterior with a soft, dry cloth. Avoid using liquid cleaners or abrasive materials. Ensure vents are clear of dust and debris.
- **Optimal Placement:** Place the router in a central location in your home, away from obstructions, large metal objects, and other electronic devices that may cause interference. Elevating the router can also improve signal distribution.

TROUBLESHOOTING

Issue	Possible Cause	Solution
No Internet Connection	Modem or router issue, incorrect settings, ISP outage.	Check modem and router power. Restart modem and router. Verify cable connections. Check ISP status.
Slow Wi-Fi Speed	Interference, distance, too many devices, outdated firmware.	Relocate router. Change Wi-Fi channel. Update firmware. Limit connected devices or use QoS.
Cannot Access Router Settings	Incorrect IP address, browser issue, network conflict.	Ensure correct URL (router.asus.com or 192.168.1.1). Try a different browser. Temporarily disable firewall/antivirus. Perform a factory reset if necessary (see below).

Factory Reset

If you encounter persistent issues, a factory reset can restore the router to its default settings. This will erase all custom configurations.

1. With the router powered on, press and hold the Reset button (usually a small pinhole button) for about 5-10 seconds until the power LED starts blinking.
2. Release the button and wait for the router to restart.
3. After the reset, you will need to reconfigure the router using the initial setup process.

SPECIFICATIONS

Feature	Detail
Wireless Type	802.11n, 802.11ax, 802.11a, 802.11g, 802.11ac
Brand	ASUS
Series	Rapture
Item model number	GT-AX6000
Operating System	Microsoft Windows, Linux, Mac OS, Apple iOS
Item Weight	2.47 pounds
Product Dimensions	13.3 x 7.72 x 8.7 inches
Color	black
Voltage	110 Volts (AC)

Feature	Detail
Manufacturer	ASUS
Country of Origin	Taiwan
Special Feature	Beamforming, Access Point Mode, Internet Security, Parental Control
Frequency Band Class	Dual-Band
Compatible Devices	Gaming Console, Personal Computer, Tablet, Smart Television, Smartphone
Frequency	5 GHz
Recommended Uses For Product	Home, Gaming, Business
Connectivity Technology	Wi-Fi, USB, Ethernet

WARRANTY AND SUPPORT

Warranty Information

The ASUS ROG Rapture GT-AX6000 router typically comes with a standard manufacturer's warranty. Extended protection plans are also available:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect: One plan covers all eligible past and future purchases (monthly billing option).

Please refer to your warranty card included in the box for specific terms and conditions.

Customer Support

For further assistance, technical support, or to download the full user manual, please visit the official ASUS support website or use the ASUS Router app. You can also find the User Manual (PDF) [here](#).