

ASUS RT_AC86U

ASUS RT-AC86U AC2900 WiFi Dual-band Gigabit Wireless Router User Manual

Model: RT-AC86U | Brand: ASUS

INTRODUCTION

The ASUS RT-AC86U Wi-Fi Dual-band Gigabit Wireless Router is designed to provide ultrafast Wi-Fi performance, especially for demanding applications like online gaming and 4K UHD streaming. Featuring NitroQAM (1024-QAM) technology, it delivers combined speeds of up to 2917Mbps. With MU-MIMO technology, multiple devices can connect simultaneously at full speed without network slowdowns. This router also includes Adaptive QoS for prioritizing gaming traffic and ASUS AiProtection, a commercial-grade network security system powered by Trend Micro Smart Home Network. Connectivity options include four Gigabit LAN ports, a USB 2.0 port, and a USB 3.0 (USB 3.1 Gen 1) port, allowing for versatile connections to smart TVs, game consoles, NAS storage, and more.

KEY FEATURES

- Dual-band (2.4 plus 5 GHz) AC2900 wireless router with the latest 802. 11AC MU-MIMO technology for data transfer speeds up to 2900 Mbps.
- 1.8GHz 32bit dual-core processor optimizes network traffic and connectivity speeds from the USB 3. 1 Gen1 and 4x Gigabit LAN ports.
- Designed for lag-free online gaming and flawless 4K UHD streaming with WTFast game Accelerator and adaptive QoS.
- AiProtection powered by Trend Micro provides built-in 24/7 protection from external attacks and threats, neutralizing them before they reach your network or connected devices.
- Manage your network with the ASUS router app – setup your network, manage usage and parental controls, and get instant notifications about important network-based events.

WHAT'S IN THE BOX

Before you begin, ensure all components are present in the package:

What's In the Box

RT-AC86U Wireless AC2900 Router



Image: Contents of the ASUS RT-AC86U router box. Includes the RT-AC86U Wireless AC2900 Router, WAN Ethernet Cable (RJ45), Power Adapter, and various manuals (Manual, Quick Start Guide, VIP Membership Warranty Notice).

- ASUS RT-AC86U Wireless AC2900 Router
- WAN Ethernet Cable (RJ45)
- Power Adapter
- Quick Start Guide and other documentation

SETUP GUIDE

1. **Unpack the Router:** Carefully remove the router and all accessories from the box.
2. **Connect the Antennas:** Ensure the three external antennas are securely attached to the router.
3. **Position the Router:** Place the router in a central location in your home or office, away from obstructions and other electronic devices that might cause interference.
4. **Connect to Power:** Plug the power adapter into the router's DC-IN socket and then into a power outlet. Turn on the router using the power button.
5. **Connect to Modem:** Use the provided Ethernet cable to connect your modem's LAN port to the router's Internet

(WAN) port.

6. **Connect Your Device:**

- **Wired Connection:** Connect your computer to one of the router's LAN ports using an Ethernet cable.
- **Wireless Connection:** Find the default Wi-Fi network name (SSID) and password on the label on the bottom of the router. Connect your wireless device to this network.

7. **Access the Web Interface:** Open a web browser on your connected device and type router.asus.com or 192.168.1.1 into the address bar. Follow the on-screen instructions to complete the initial setup, including setting up your new Wi-Fi network name and password, and admin login credentials.

Battle-Ready Connectivity

4X Gigabit LAN Ports | USB 3.1 & 2.0 | Supports Apple® Time Machine®



Image: Rear view of the ASUS RT-AC86U router. Labels indicate the Reset button, Power button, DC-IN socket, USB2.0 port, USB3.1 Gen1 port, Internet (WAN) port, LAN 1-4 ports, LED on/off button, and Fancy LOGO lens.

OPERATING INSTRUCTIONS

Once your router is set up, you can manage and optimize your network using the web interface or the ASUS Router App.

- **Connecting Devices:** Connect new devices to your Wi-Fi network using the SSID and password you configured during setup. For wired connections, simply plug an Ethernet cable into an available LAN port.
- **Changing Wi-Fi Settings:** Log in to the web interface to change your Wi-Fi network name (SSID), password, security type, or enable/disable guest networks.
- **Firmware Updates:** Regularly check for and install firmware updates via the web interface. This ensures optimal performance, security, and access to new features.
- **AiProtection:** Access the AiProtection section in the web interface to monitor network security, block malicious sites, and manage parental controls.
- **Adaptive QoS:** Utilize Adaptive QoS to prioritize network traffic for specific applications, such as gaming or streaming, ensuring a smooth experience.
- **ASUS Router App:** Download the ASUS Router App from your mobile app store for convenient network management from your smartphone or tablet.

Customize Your Network

With ASUS exclusives like ASUS App, AiCloud, Media and VPN Servers



NETWORK
MAP

ADAPTIVE
QoS

TRAFFIC
MONITOR

ROAMING
ASSIST

GUEST
NETWORK

PARENTAL
CONTROL

VPN SERVER
& CLIENT

MAC, KEYWORD
AND URL FILTER

AiCloud

DOWNLOAD
MASTER

PRINTER
SERVER

MEDIA
SERVER

MAC OS
BACKUP SUPPORT

Image: Customize Your Network. A tablet displays the ASUS router's web interface with options like Network Map, Adaptive QoS, Traffic Monitor, Roaming Assist, Guest Network, Parental Control, VPN Server & Client, MAC/Keyword/URL Filter, AiCloud, Download Master, Printer Server, Media Server, and MAC OS Backup Support.

MAINTENANCE

- **Keep Firmware Updated:** Regularly check for and apply the latest firmware updates to ensure optimal performance, security, and compatibility.
- **Regular Reboots:** Periodically reboot your router (e.g., once a month) to clear its memory and refresh network connections, which can improve stability.
- **Proper Ventilation:** Ensure the router is placed in a well-ventilated area to prevent overheating, which can affect performance and lifespan.
- **Cleanliness:** Keep the router free from dust accumulation, especially around ventilation openings, to maintain proper airflow.

TROUBLESHOOTING

- **No Internet Connection:**
 - Check if the WAN cable is securely connected to both the router and the modem.
 - Reboot both your modem and router by unplugging them for 30 seconds and then plugging them back in.
 - Verify your Internet Service Provider (ISP) is not experiencing an outage.
- **Slow Wi-Fi Speeds:**
 - Ensure your devices are connected to the 5GHz band for faster speeds, if supported.
 - Reduce interference by moving the router away from other electronics or large metal objects.
 - Check for firmware updates.
 - Use Adaptive QoS to prioritize critical traffic.
- **Wi-Fi Disconnections:**
 - Try changing your Wi-Fi channel in the router settings to avoid crowded channels.
 - Ensure your router's firmware is up to date.
 - Check the distance between your device and the router; consider a Wi-Fi extender if needed.
- **Cannot Access Router Admin Page:**
 - Ensure your device is connected to the router (wired or wireless).
 - Try clearing your browser's cache or using a different browser.
 - Verify you are using the correct IP address (**192.168.1.1**) or domain (**router.asus.com**).
 - If you forgot your password, you may need to perform a factory reset (refer to the setup guide for reset button location).

SPECIFICATIONS

Feature	Detail
Product Dimensions	6.2 x 3.3 x 8.66 inches
Item Weight	1 pounds
Manufacturer	ASUS Computer International Direct

Item Model Number	RT_AC86U
Date First Available	October 31, 2018
Brand	ASUS
Model Name	Asus AC2900
Special Feature	QoS, WPS
Frequency Band Class	Dual-Band
Wireless Communication Standard	802.11ac
Compatible Devices	Gaming Console, Smart Television
Frequency	5 GHz
Recommended Uses For Product	Gaming
Connectivity Technology	Wi-Fi
Color	Black

PRODUCT OVERVIEW



Image: The ASUS RT-AC86U router, showcasing its sleek black design with red accents and three prominent antennas, indicating its powerful wireless capabilities.

Award Winning Wireless Performance

802.11ac Dual-Band AC2900 WiFi | MU-MIMO & NitroQAM Technology



Image: Award Winning Wireless Performance. This diagram highlights the router's 802.11ac Dual-Band AC2900 WiFi with MU-MIMO & NitroQAM Technology, showing separate 2.4GHz and 5GHz signals supporting multiple users simultaneously.

Double Gaming Boost

Built-in WFast® Game Accelerator and Adaptive QoS

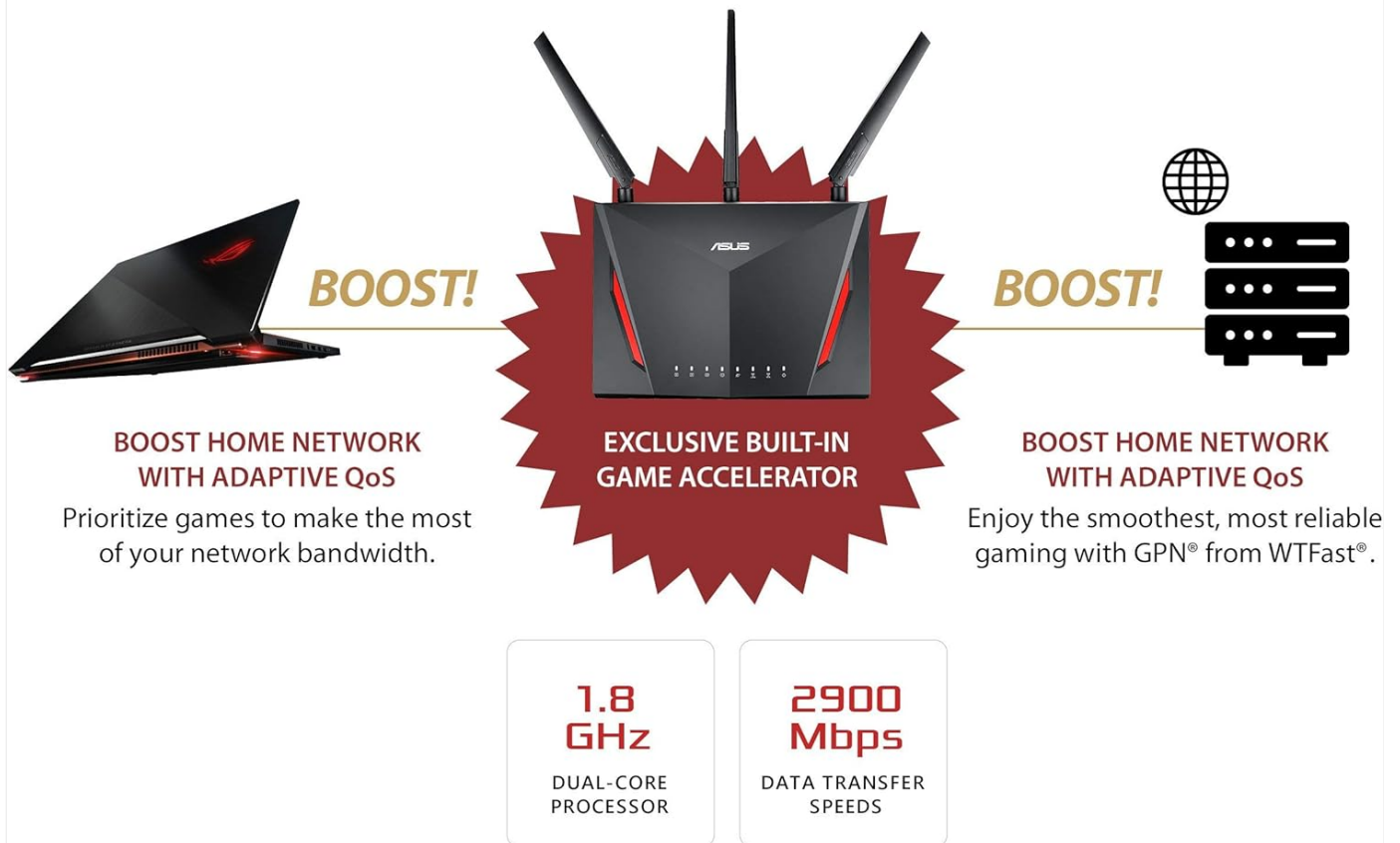



Image: Double Gaming Boost. This graphic illustrates the router's built-in WFast Game Accelerator and Adaptive QoS, designed to prioritize gaming packets and optimize network bandwidth for a smoother gaming experience, powered by a 1.8 GHz Dual-Core Processor and 2900 Mbps Data Transfer Speeds.

Built In Protection

Exclusive ASUS AiProtection for 24/7 Security powered by 
(Lifetime subscription included)



PROTECTION
AGAINST ATTACKS



BLOCK ACCESS TO
MALICIOUS WEBSITES



NO SUBSCRIPTION
FEE



INFECTION DETECTING
AND BLOCKING

Image: Built In Protection. This image details the exclusive ASUS AiProtection for 24/7 Security powered by Trend Micro, including protection against attacks, blocking access to malicious websites, no subscription fee, and infection detection and blocking.

WARRANTY AND SUPPORT

This ASUS RT-AC86U router comes with a standard manufacturer's warranty. For specific warranty terms, duration, and conditions, please refer to the warranty card included in your product packaging or visit the official ASUS support website. For technical support, troubleshooting assistance, driver downloads, and frequently asked questions, please visit the ASUS support portal:

www.asus.com/support/

Please have your product model number (RT-AC86U) and serial number ready when contacting support.

