

ASUS RT-BE58U WiFi 7 AiMesh Extendable Router



- **Ultrafast WiFi 7-** WiFi 7 (802.11be) dual-band extendable router boosts speeds up to 3600 Mbps, with 4096-QAM increasing a single frequency band's transmission speed by 1.2 times
- **High Performance CPU-** Equipped with the latest 2.0GHz Quad-Core CPU from Broadcom, supporting up to 20K DMIPS computing power, effortlessly handling various software and hardware features.
- **Unleashing Multi-link operation (MLO) for Ultra-Smooth Connectivity-** Link to multiple bands at the same time to ensure stable internet connections and efficient data transfers.
- **AI Detection on WAN Input-** flexible WAN inputs with a 2.5 Gb WAN/LAN port and a 1 Gb WAN/LAN port. It can automatically detect the WAN input and configure itself for an easier setup process.
- **Hassle-free AiMesh Extendable Network-** AiMesh extendable routers enable whole home seamless roaming with rich, advanced features.
- **Commercial-Grade Network Security-** Network security with commercial-grade AiProtection Pro powered by Trend Micro™, plus a one-tap security scan and Safe Browsing.



ASUS RT-BE58U Worry-free Smart Home WiFi

The ASUS RT-BE58U elevates your smart home with worry-free WiFi 7 and Smart AiMesh technology. Enjoy blazing-fast dual-band speeds up to 3600 Mbps. With next-gen ASUS Network Security and a suite of advanced network technologies such as IoT Network, the RT-BE58U future-proofs your smart home network today.



IEEE 802.11BE

Next-gen Smart Home WiFi 7

The ASUS RT-BE58U boasts cutting-edge WiFi 7 technology. This superior dual-band router unleashes the full potential of WiFi 7 with wired backhaul options. Enjoy a next-generation connected experience for home entertainment and cloud computing, including 8K streaming, HDR gaming, content creation, and AI.

[Learn more about WiFi 7 technology >](#)

Up to **3600 Mbps** Up to **20% More Efficient¹**
Dual-band WiFi 7 With 4K-QAM*

Dual-band Multi-Link
With 2.4 GHz + 5 GHz

Blazing-fast Wireless Connection

The RT-BE58U unleashes blazing-fast dual-band WiFi 7 speeds up to 3600 Mbps, ensuring seamless streaming, gaming, and compatibility with your legacy IoT devices.



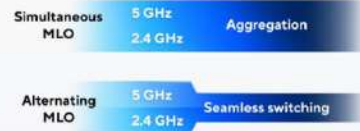
160 MHz Bandwidth

Unlock the full potential of the RT-BE58U with 160 MHz channel bandwidth, delivering ultra-fast data transfer rates, reduced latency, and enhanced performance for a smoother network experience.



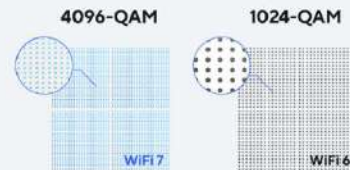
Comprehensive MLO Support

Multi-Link Operation (MLO) enables buffering-free connection by intelligently combining and switching between the 2.4 GHz and 5 GHz bands. ASUS RT-BE58U is built to be future-proof with all WiFi 7 devices, regardless of the MLO mode they utilize.*



Efficient 4K-QAM Transmission

Compared to 1024-QAM with WiFi 6/6E, 4096-QAM (Quadrature Amplitude Modulation) allows each signal to more densely incorporate larger amounts of data, delivering up to 20% more efficient data transmission.



MESH TECHNOLOGY

AI-Boosted Smart AiMesh

ASUS RT-BE58U harnesses the power of WiFi 7 and next-gen Smart AiMesh technology to deliver wider coverage, a more stable and secure network, and a feature-rich network experience – all under one SSID for your entire smart home.

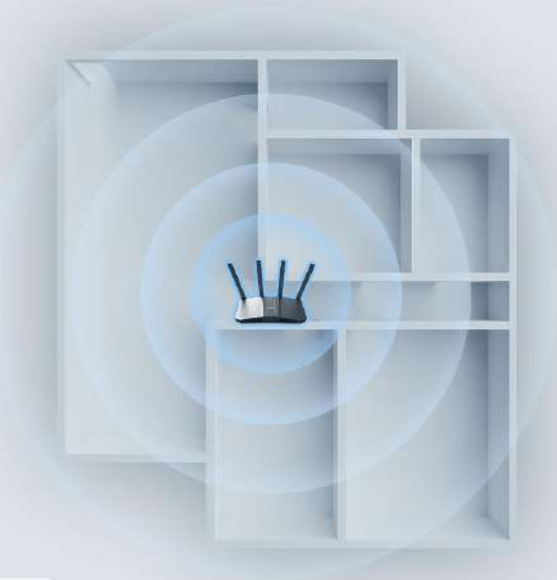
[Learn more about AiMesh technology >](#)



**EXTENDABLE
ROUTER**

Coverage up to

2,000 sq. ft.



Smart MLO Connect

Smart AiMesh intelligently leverages WiFi 7 Multi-Link Operation, automatically aggregating or switching across multiple bands for optimized performance and low latency.



Values Beyond Extension

AiMesh goes beyond just extending coverage or seamless roaming. It works with all compatible ASUS routers, offering easy management, advanced security, and smart home features across your entire network.

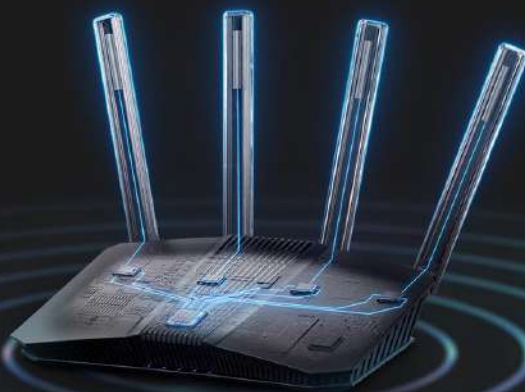
[Learn more](#)



PERFORMANCE

Engineered for Always-Connected Home

ASUS engineering shines in RT-BE58U's robust design, delivering superior coverage and unrivaled reliability. With four external antennas and four high-power front-end modules, ASUS RT-BE58U eliminates WiFi dead zones, delivering consistent coverage in all directions.



Network Powerhouse, Evolved

Fueled by a quad-core 2.0 GHz CPU and 8 GB RAM, RT-BE58U delivers exceptional processing power. This unleashes advanced features, optimizing your network for smoother 8K streaming, HDR gaming, and an enhanced AI network experience.



Connectivity

Enjoy versatile and ultra-fast multi-gig smart home networking with the RT-BE58U. RT-BE58U includes one 2.5G WAN/LAN port for high-speed entertainment, home studios, and ultra-fast ethernet backhaul.

[Learn more >](#)



2.5G Port

RT-BE58U includes one 2.5G WAN/LAN port for high-speed entertainment, home studios, and ultra-fast ethernet backhaul.

[Learn more](#)

2.5 Gbps

Versatile WAN options

RT-BE58U provides versatile WANs, including a 2.5G WAN/LAN port, a Gigabit WAN/LAN port, and an USB WAN for flexible network configurations.

4G LTE & 5G Mobile Tethering

Stay connected anytime with the convenient USB 4G LTE and 5G mobile tethering, even during internet outages or on the go.

[How to set up?](#)



ENVIRONMENT

Sustaining Incredible Future

ASUS is committed to producing reliable and eco-friendly products and packaging with the Earth in mind.



Up to 30% of PCR Plastic

The RT-BE58U uses 30% post-consumer recycled (PCR) plastics, without compromising quality, functionality, or



Certified FSC™ Mix Packaging

The RT-BE58U comes with FSC Mix-certified packaging to reduce environmental impact for a greener future.



Award-winning Reliability

Trusted and award-winning reliability with ASUS LAB Certification ensures top-quality, durable, and efficient performance through rigorous testing.

NETWORK SECURITY

24/7 End-to-end Network Protection

Safeguard your smart home network end-to-end and 24/7 with a powerful combination of ASUS Network Security technologies and commercial-grade AI/ML protection powered by Trend Micro™.

How to make my home network more secure? >



Safeguard everyone and every connected device

ASUS Network Security offers a comprehensive suite of features designed to provide robust protection for every member of your household and every device connected to your network.

This end-to-end solution goes beyond basic router security. We've equipped it with a range of powerful tools to safeguard your devices, combined with robust encryption powered by trusted VPN providers, ensuring your online activities remain private and secure.



Easy Security Management

Stay vigilant and secure, even when you are away with intuitive control and management ASUS WRT interface and mobile router app.



Streamlined Network Customization

Effortlessly create customized networks for modern smart Home scenarios with innovative Smart Home Master network segmentation.



Connected with peach of mind

Stay protected with top-tier VPN provider for encrypted connections. No worries about your location and browsing habits, passwords or sensitive data.



USER FRIENDLY

Hassle-free Security Management

ASUS Network Security includes convenient network tools such as one-tap Security Scan for diagnosing network health, fine-tuning settings, and receiving on-the-go notifications.



Instant Notifications

Receive instant notifications for new device connections to block unknown devices from accessing your network or group new devices into a user profile.



Unknown device is connected to RT-BE58U



Auto Security Upgrade

Secure your router with incorporated security measures that continuously update files and scans to protect against malware and emerging threats.

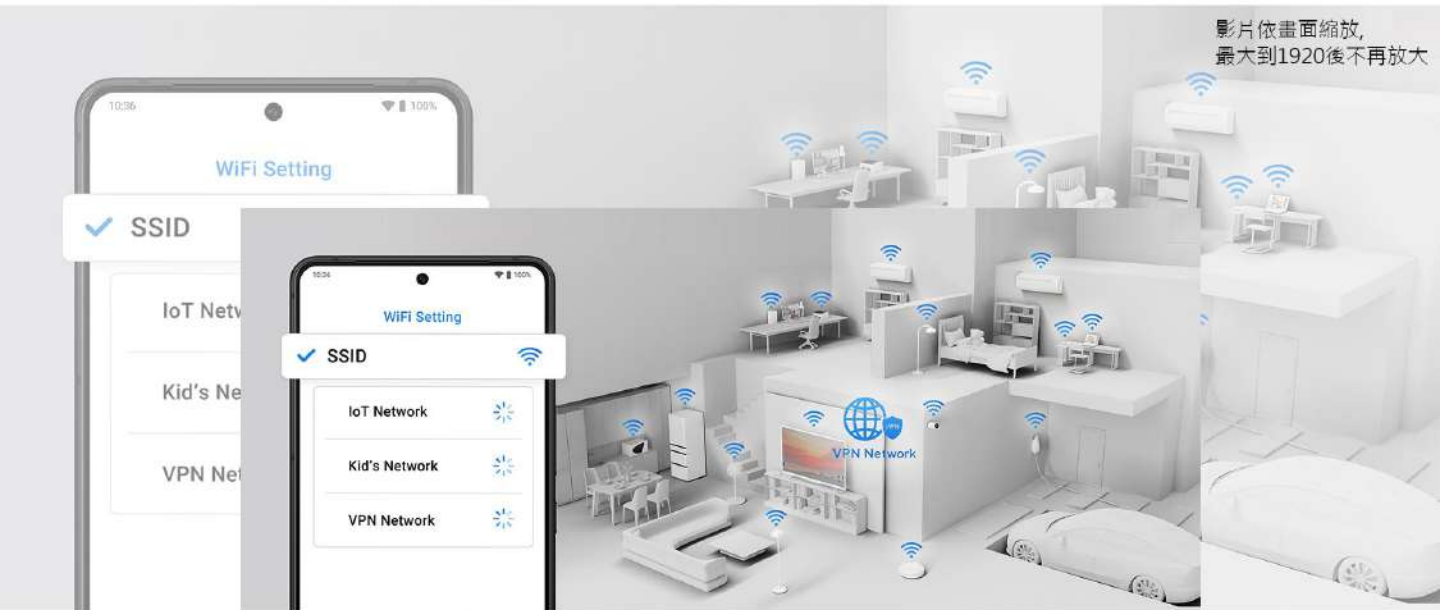


NETWORK SEGMENTATION

Feature-packed Smart Home Master SSIDs

ASUS Smart Home Master subnetwork management streamlines the process of creating or connecting to dedicated SSIDs with advanced features like parental controls and VPNs

[Learn more about Smart Home Master Master Network >](#)



IoT Network

Set up and manage all your IoT devices under one secure SSID to provide enhanced security with commercial-grade protection.



Kid's Network

Create a dedicated SSID just for the kids to easily manage their screen time without needing to configure each device individually.



VPN Network

Connect to your preferred VPN service with a single click through a dedicated subnetwork.



PARENTAL CONTROLS

Safer, Smarter Home Network for Your Loved Ones

Advanced family protection and parental controls empower you to nurture a balanced digital life for you and your kids, all without subscriptions.

[Learn more about ASUS Family Protection >](#)



Internet Activity Dashboard

Monitor your kids' internet usage through a comprehensive graphical dashboard. See their online time, data consumption, and device-specific activity at a glance.

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description

- Preset Age-level Profiles +
- Flexible Time Scheduling +
- Safe Browsing +
- AdGuard DNS +



VPN

Stay Protected Anywhere, Anytime

Secure browsing, data privacy, remote access – ASUS extensive VPN capabilities handle it all.

[Learn more about ASUS VPNs >](#)



WireGuard®
(via Ethernet)  up to 300Mbps

OpenVPN
(via Ethernet)  up to 150Mbps

Instant Guard

When away from home, ASUS Instant Guard gives you a one-tap secure VPN², and you can even easily share it with your family and friends through a URL link.

[How to set up?](#)



GET IT ON
Google Play



Download on the
App Store



Multiple VPN Connections

Connect to multiple encrypted VPN tunnels simultaneously while maintaining the internet access without interruption.



ASUS ROUTER APP

3-Step Easy Setup and Powerful Management

The ASUS Router mobile app with its intuitive interface makes managing your mesh WiFi system simple right from your smartphone. Simply follow the on-screen directions, and you will be up and running in no time!

[Learn more about ASUS Router App >](#)



Specifications

Network Standard	IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac, IEEE 802.11ax, 802.11be, IPv4, IPv6
Product Segment	BE3600 ultimate BE performance: 688+2882 Mbps
Coverage	Large homes
Data Rate	802.11be (2.4GHz) : up to 688 Mbps 802.11be (5GHz) : up to 2882 Mbps
Antenna	External antenna x 4
Transmit/Receive	2.4 GHz 2x2 5 GHz 2x2
Processor	2.0 GHz quad-core processor
Memory	256 MB Flash 1 GB RAM
Wi-Fi Technology	MLO (Multi-link Operation) OFDMA (Orthogonal Frequency Division Multiple Access) Beamforming: standard-based and universal 4096-QAM high data rate 20/40/80/160 MHz bandwidth
Operating Frequency	2.4 GHz, 5 GHz
Encryption	WPA3-Personal, WPA2-Personal, WPA-Personal, WPA-Enterprise , WPA2- Enterprise , WPS support
Firewall & Access Control	Firewall: SPI intrusion detection, DoS protection Access control: Parental control, Network service filter, URL filter, Port filter
Management	UPnP, IGMP v1/v2/v3, DNS Proxy, DHCP, NTP Client, DDNS, PPPoE Port Trigger, Port Forwarding, DMZ, System Event Log
WAN Connection Type	Internet connection type : PPPoE, PPTP, L2TP, Automatic IP, Static IP
Utilities	Router setup wizard; Firmware restoration; Device discovery; printer setup utility
Ports	RJ45 for 2.5 Gigabits BaseT for WAN/LAN x 1, RJ45 for Gigabits BaseT for WAN/LAN x 1, RJ45 for Gigabits BaseT for LAN x 3 USB 3.2 Gen 1 x 1

Specifications

Features

Router app

MU-MIMO

Traffic Analyzer

Adaptive QoS

AiProtection Pro

Parental Control

Guest Network : Up to 3 SSIDs

NAT Pass-Through: PPTP Pass-Through, L2TP Pass-Through, IPSec Pass-Through, RTSP Pass-Through, H.323 Pass-Through, PPPoE relay

Mac OS Backup

Enhanced media server (AiPlayer app compatible)

- Image :
- Audio : mp3, wma, wav, pcm, mp4, lpcm, ogg
- Video : asf, avi, divx, mpeg, mpg, ts, vob, wmv, mkv, mov

AiCloud personal cloud service

3G/4G data sharing

Printer Server

- Multifunctional printer support (Windows only)
- LPR protocol support

Download Master

- Support bt, nzb, http, ed2k
- Support encryption, DHT, PEX and magnet link
- Upload and download bandwidth control
- Download scheduling

AiDisk file server

- Samba and FTP server with account management

Dual WAN

IPTV support

Roaming Assist

OFDMA

Beamforming

Specifications

VPN Support	PPTP Pass-Through, L2TP Pass-Through, IPSec Pass-Through RTSP Pass-Through, H.323 Pass-Through, SIP Pass-Through, PPPoE Relay IPSec server PPTP server OpenVPN server PPTP client L2TP client OpenVPN client
Button	WPS Button, Reset Button, Power Button
LED Indicator	Power x 1 2.4GHz x 1 5GHz x 1 LAN x 1 WAN x 1
Power Supply	AC Input : 100V~240V(50~60Hz) DC Output : 12 V with max. 2 A current
OS Support	Windows® 11 Windows® 10 Mac OS X 10.6 Mac OS X 10.7 Mac OS X 10.8
Operation mode	Wireless router mode Access point mode Media bridge mode Repeater mode AiMesh node mode
Product Dimensions	238*193*59 mm / 9.37*7.60*2.33 inch
Product Weight	461 g / 1.016 lb