# ASUS RT-BE58U WiFi 7 AiMesh Extendable Router

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

- **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.

- **Al 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, plus a one-tap security scan and Safe Browsing.

IN SEARCH OF INCREDIBLE

FAST Networking Solutions
FARTHEST · EASY · SECURE · TRUSTED




## 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**
Dual-band WiFi 7

Up to
**20% More Efficient**[1]
With 4K-QAM*

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

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## 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.




## 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.*



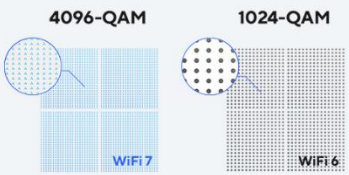

## 160 MHz Bandwidth

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.




## 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.

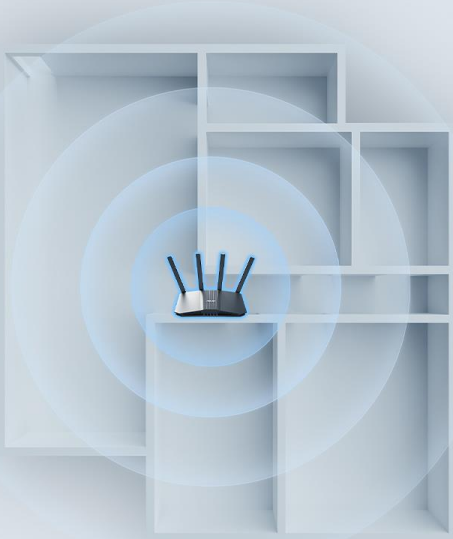



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MESH TECHNOLOGY

# 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 >



AiMesh EXTENDABLE ROUTER

Coverage up to
2,000 sq. ft.

## Smart MLO Connect

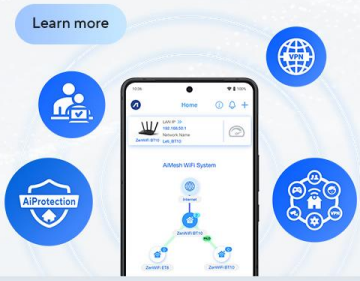
Smart AiMesh intelligently leverages WiFi 7 Multi-Link Operation, automatically aggregating or switching across multiple bands for optimized performance and low latency.




## 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

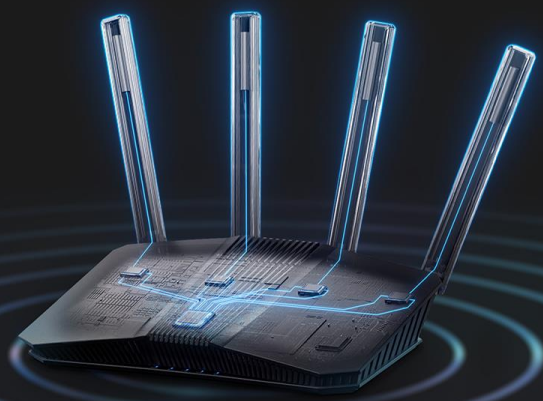



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PERFORMANCE

# 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 ? 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.





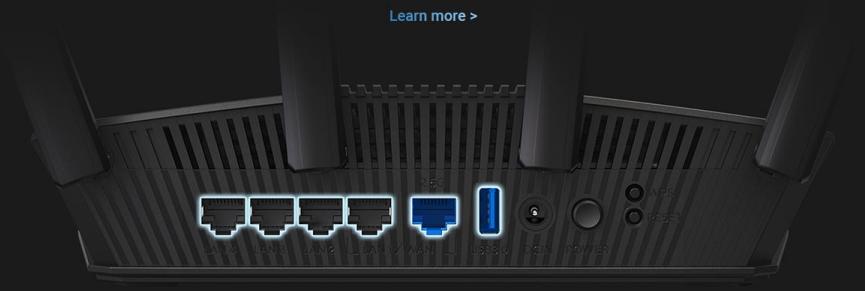



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## Connectivity

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.

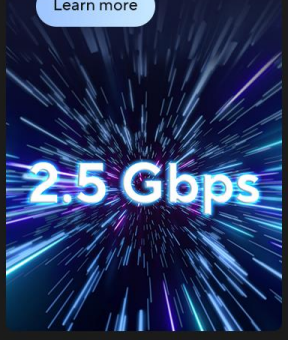
Learn more >



### 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




### 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?




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### 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.

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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? >



AiProtection

## 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.

NordVPN

Surfshark®

### 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.

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USER FRIENDLY

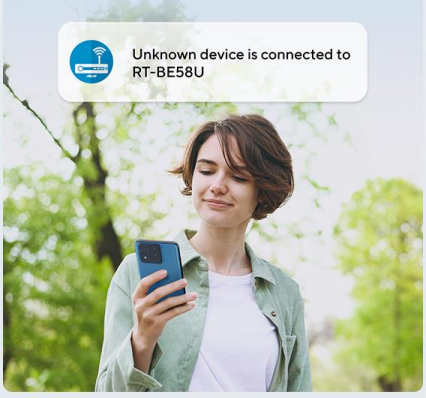
## Hassle-free Security Management

ASUS Network Security includes convenient network tools such as one-tal 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.




### Auto Security Upgrade

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



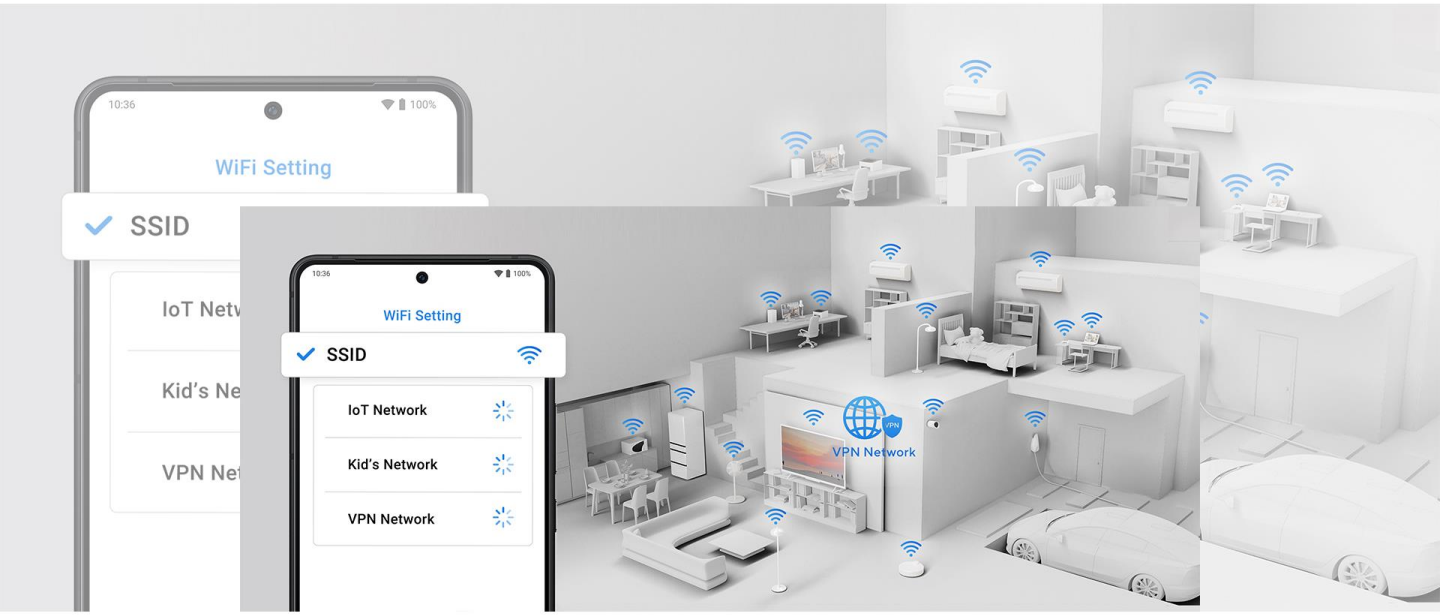
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NETWORK SEGMENTATION

# 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.



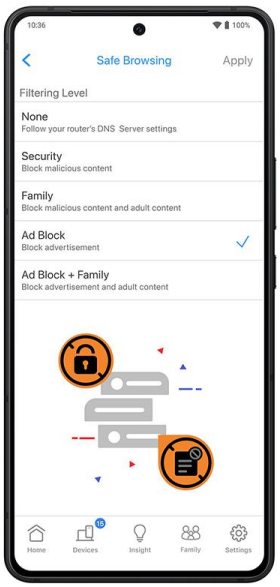
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PARENTAL CONTROLS

# 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.

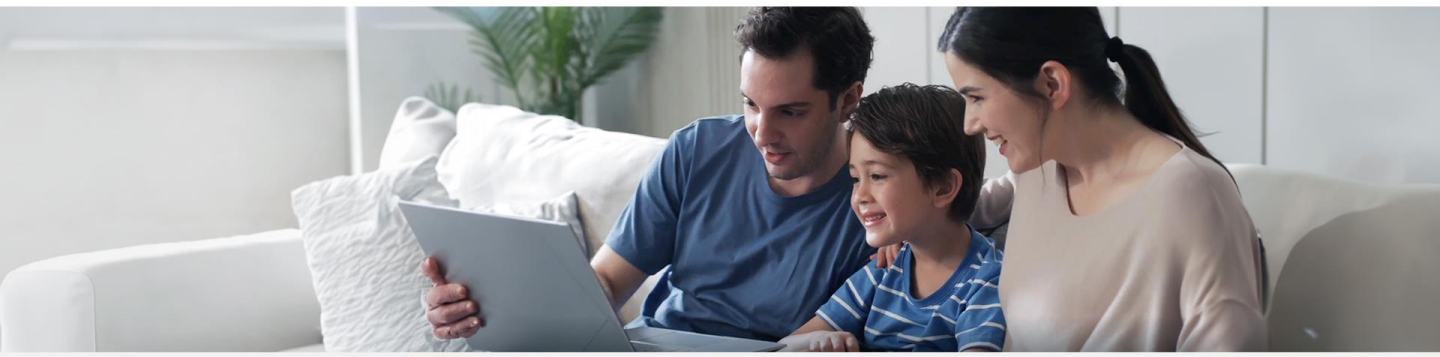
Learn more about ASUS Family Protection >




## 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.

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



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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

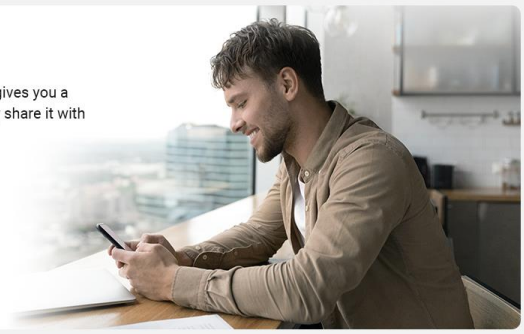
OpenVPN
(via Ethernet) — up to 150Mbps

## Instant Guard

When away from home, ASUS Instant Guard gives you a one-tap secure VPN[2], 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.




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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 >




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## 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 | 802.11b: up to 11 Mbps<br>802.11a/g: up to 54 Mbps<br>802.11n: up to 300 Mbps<br>802.11ac(5GHz): up to 1734 Mbps<br>802.11ax(2.4GHz): up to 574 Mbps<br>802.11ax(5GHz): up to 2402 Mbps<br>802.11be(2.4GHz): up to 688 Mbps<br>802.11be(5GHz): up to 2882 Mbps |
| Antenna | External antenna x 4 |
| Transmit/Receive | 2.4 GHz 2x2<br>5 GHz 2x2 |
| Processor | 2.0 GHz quad-core processor |
| Memory | 256 MB Flash<br>1 GB RAM |
| Wi-Fi Technology | MLO (Multi-link Operation)<br>OFDMA (Orthogonal Frequency Division Multiple Access)<br>Beamforming: standard-based and universal<br>4096-QAM high data rate<br>20/40/80/160 MHz bandwidth |
| Operating Frequency | 2.4 GHz < 20 dBm, 5 GHz < 30 dBm |
| Encryption | WPA3-Personal, WPA2-Personal, WPA-Personal, WPA-Enterprise , WPA2- Enterprise , WPS support |
| Firewall & Access Control | Firewall: SPI intrusion detection, DoS protection<br>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 |

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# Specifications

| | |
|---|---|
| Features | **Router app**<br>**MU-MIMO**<br>**Traffic Analyzer**<br>**Adaptive QoS**<br>**AiProtection**<br>**Parental Control**<br>**Guest Network** : Up to 3 SSIDs<br>**NAT Pass-Through**: PPTP Pass-Through, L2TP Pass-Through, IPSec Pass-Through, RTSP Pass-Through, H.323 Pass-Through, PPPoE relay<br>**Mac OS Backup**<br>**Enhanced media server (AiPlayer app compatible)**<br>- Image :<br>- Audio : mp3, wma, wav, pcm, mp4, lpcm, ogg<br>- Video : asf, avi, divx, mpeg, mpg, ts, vob, wmv, mkv, mov<br>**3G/4G** data sharing<br>**Printer Server**<br>- Multifunctional printer support (Windows only)<br>- LPR protocol support<br>**Download Master**<br>- Support bt, nzb, http, ed2k<br>- Support encryption, DHT, PEX and magnet link<br>- Upload and download bandwidth control<br>- Download scheduling<br>**Dual WAN**<br>**IPTV support**<br>**Roaming Assist**<br>**OFDMA**<br>**Beamforming** |

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## Specifications

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

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## Specifications

| | |
|---|---|
| Giftbox dimension | 285mm*193mm*104mm |
| Giftbox weight | 1033.4g / 2.3 lb |
| Package contents | RT-BE58U WiFi 7 Dual Band Router<br>RJ-45 cable<br>Power Adapter<br>Quick Start Guide<br>Warranty Card |

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