

## ASUS RT-BE50 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
- 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.
- **Hassle-free AiMesh Extendable Network-** AiMesh extendable routers enable whole home seamless roaming with rich, advanced features.
- **Comprehensive VPN features** Including advanced site-to-site VPN and the Instant Guard mobile app for secure connection over public WiFi
- Establish up to three SSIDs for parental controls and IoT devices with Smart Home Master Network
- Flexible 2.5G Ethernet WAN port for robust wired backhaul and internet speed





## **ASUS RT-BE50** Worry-Free Smart Home WiFi

Elevate your smart home with blazing-fast dual-band Wi-Fi 7 speeds of up to 3600 Mbps and boosted coverage with Al-boosted Smart AiMesh technology. With next-gen ASUS advanced network technologies such as IoT Network, the RT-BE50 safeguard your network end-to-end, 24/7.



IEEE 802.11BE

## Faster, Smarter Home WiFi 7

The ASUS RT-BE50 boasts cutting-edge WiFi 7 technology. Enjoy next-generation speeds and connected experiences for home entertainment and cloud computing, including 8K streaming, HDR gaming, content creation, and AI network.

Learn more about WiFi 7 >

Dual-band 3600 Mbps

4K-QAM Up to 20% Faster Data Transfer\* **Dual-band MLO** Lag-free Connection

Advanced 160 MHz Channels

Faster, lower latency &

\*Compared to WiFi 6/6E 1024-QAM



#### Blazing-Fast WiFi Speeds

The RT-BE50 unleashes blazing-fast dual-band WiFi 7 speeds up to 3600 Mbps, ensuring seamless streaming, gaming, and compatibility with your legacy IoT devices.



#### Advanced 160 MHz Channels

The RT-BE50 supports ultrawide 160 MHz channels, delivering ultrafast data transfer rates, reduced latency, and enhanced performance for a smoother network experience.

\*Compared to WiFi 6E 160 MHz channels



#### 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-BE50 is built for the future of all WiFi 7 devices, regardless of the MLO mode they use\*.

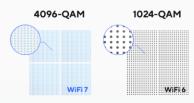
Simultaneous MLO	5 GHz 2.4 GHz	Aggregation
Alternating MLO	5 GHz 2.4 GHz	Seamless switching

\*Supported MLO modes and bands may vary by device. Please refer to device specifications for details.

#### Efficient 4K-QAM Transmission

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

\*Compared to WiFi 6/6E





MESH WIFI

## WiFi 7 Powering AiMesh

RT-BE50 utilizes the power of WiFi 7 MLO into next-gen AiMesh technology, delivering wider coverage, a more stable and secure network and a feature-rich network experience – all under one network name for your entire smart home.

Learn more about extendable routers >

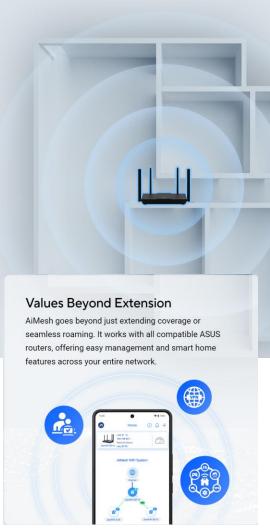


Coverage up to 2,000 sq. ft.

#### **Extend Your Network Easily**

RT-BE50 extends your home network easily with any AiMesh-compatible ASUS router, regardless of WiFi generation. By repurposing your older routers as mesh nodes, you can enhance your network coverage while reducing electronic waste.







## Connectivity

 $\label{thm:encoder} \mbox{Enjoy versatile and ultrafast multi-gigabit smart home networking with the RT-BE50}.$ 







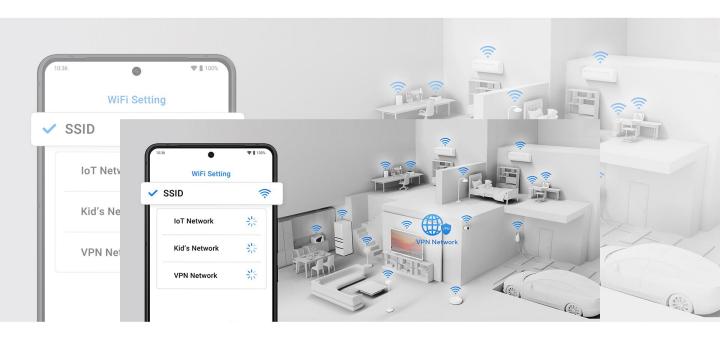


NETWORK SEGMENTATION

## 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 >













#### 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.

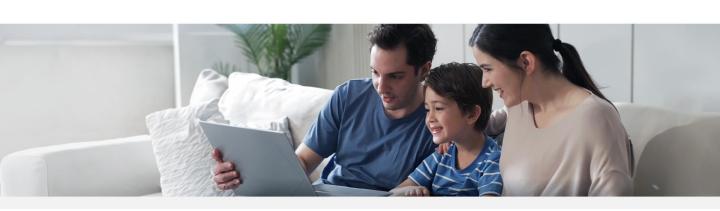
Learn more about ASUS Family Protection >



### 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	4
Safe Browsing	4
AdGuard DNS	+







## Specifications

## Stay Protected Anywhere, Anytime

Enjoy secure browsing, data privacy, remote access – extensive ASUS VPN capabilities handle it all. The RT-BE50 supports versatile VPN protocols, including the cutting-edge WireGguard® for lightning-fast speeds and optimal performance.

Learn more about ASUS VPNs >













ASUS ROUTER APP

## Three-Step Easy Setup, Powerful Controls

The intuitive interface of the ASUS Router mobile app makes managing your network simple on your smartphone. Simply follow the on-screen directions, and you will be up and running in no time!

Learn more about the 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	Small 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	1.1 GHz quad-core processor
Memory	256 MB Flash 128 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 discovary; printer setup utility
Ports	RJ45 for 2.5 Gigabits BaseT for WANx 1, RJ45 for Gigabits BaseT for LAN x 3 $$





# **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
LED Indicator	Power x 1
Power Supply	AC Input: 100V~240V(50~60Hz) DC Output: 12 V with max. 1.5 A current
Operation mode	Wireless router mode Access point mode Media bridge mode Repeater mode AiMesh node mode
Product Dimensions	261*156*50 mm / 10.28*6.14*1.97 inch
Product Weight	450 g / 0.99 lb





## **Specifications**

Router app
MU-MIMO
Traffic Analyzer
Traditional QoS
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
IPTV support
Roaming Assist
OFDMA
Beamforming