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ASUS TUF Gaming BE6500 Dual Band WiFi 7 (802.11be) Extendable Gaming Router, Quad 2.5GbE ports, 3-step Port Forwarding, Smart Home Master, AiMesh support, and AiProtection Pro for Network Security



- **4K-QAM & Multi-Link Operation -** WiFi 7 dual-band gaming router boosts speeds up to 6500 Mbps, with 4096-QAM increasing speed by 1.2 times and Multi-Link Operation (MLO) link up to multi-band at the same time to ensure the stable internet connection and increase the efficiency.
- **Quad 2.5GbE ports -** Traffic via 2.5GbE ports has top priority, supported by Quad 2.5GbE port configurations to maximize wired internet connectivity.
- **One Router. All Game Types** - offers a versatile router with one-tap Mobile Game Mode prioritization, a dedicated Gaming Port for top performance, and simplified Open NAT for easy multiplayer setups.
- **Comprehensive Security System -** Support the latest ASUS security system, give you a wonderful protection from any network threaten.
- **Tested Durability and Stable Operation -** TUF Gaming BE6500 is built to be durable and undergoes verified testing to ensure reliable, stable operation.

Inspired By Unique Drone Design



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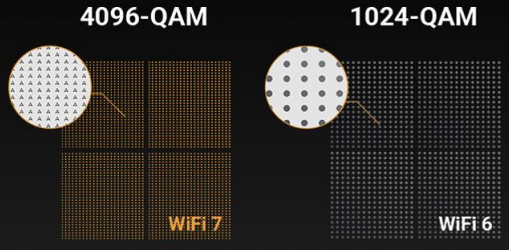
4K-QAM

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.



Multi-Link Operation (MLO)

Multi-Link Operation (MLO)* enables buffering-free connection by intelligently combining and switching between the 2.4 GHz and 5 GHz bands. TUF Gaming BE6500 is built to be future-proof with all WiFi 7 devices, regardless of the MLO mode they utilize*.



*WiFi 7 features require WiFi routers and client devices with WiFi 7-supported operating systems, and the supported MLO mode and bands may vary by device; please refer to the device's specifications for details.

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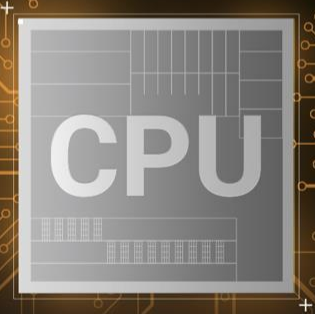
Unleash Creativity, Enjoy Speed

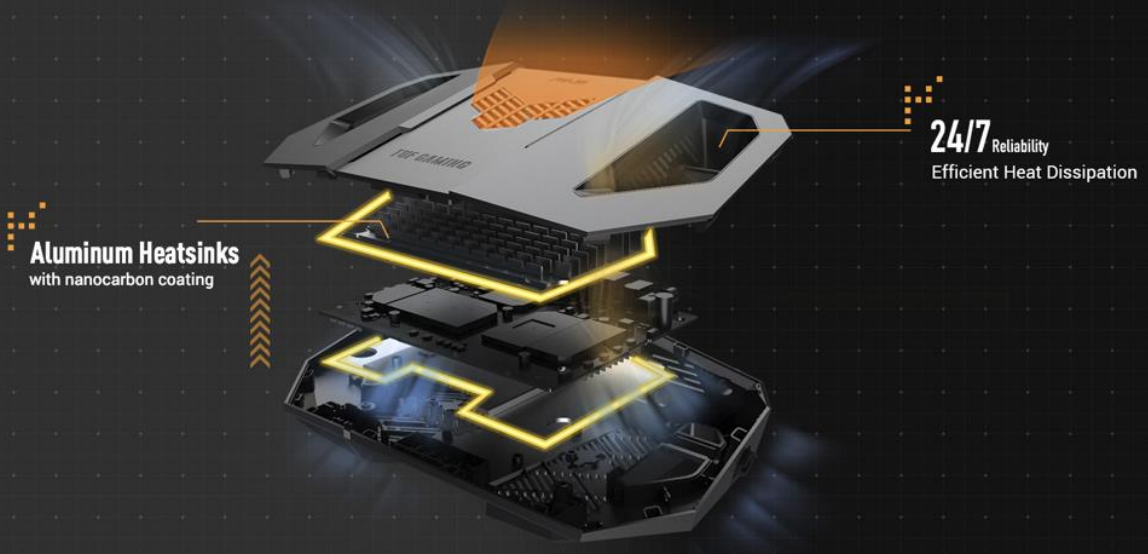
TUF Gaming BE6500 is powered by a powerful quad-core 1.5 GHz CPU and comes with 1GB DDR4 large memory, effortlessly handling various tasks.



1.5GHz	Quad-Core	1 GB	256 MB
CPU Clock Rate	CPU	DDR4 RAM	FLASH

Stable and Durable

Inspired by drone design, with aluminum heatsinks, nano-carbon coating, and 5-sided ventilation for stable all-day operation, enhancing your internet and gaming experience.



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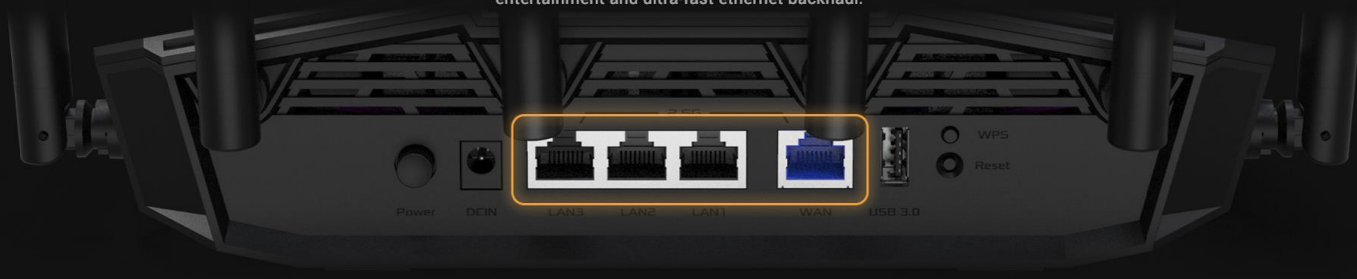
Multi-Gigabit Connectivity

Enjoy versatile and ultra-fast multi-gig gaming networking with the TUF Gaming BE6500. TUF Gaming BE6500 includes quad 2.5G port for high-speed gaming, entertainment and ultra-fast ethernet backhaul.



Quad 2.5G Port

TUF Gaming BE6500, with its quad 2.5Gbps ports, provides lightning-fast connectivity, enabling you to fully enjoy the gigabit broadband network experience.



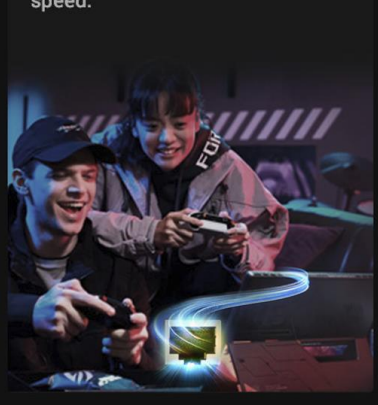
4G LTE & 5G Mobile Tethering

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



Dedicated Gaming Port

No setup required for LAN1 dedicated gaming port. Once connected, gaming devices prioritize data transmission delivering 2.5G blazing-fast speed.



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Win Every Game You Play

Prioritize the network traffic of your favorite mobile game, minimizing lag and latency with just a tap on the ASUS Router mobile App.



Based on ASUS internal lab test results

Port Forwarding in 3 Steps

Using Open NAT on TUF Gaming BE6500 couldn't be easier: it takes just 3 steps. No more frustrating and complicated procedures!

OPEN NAT

Using OPEN NAT on the TUF Gaming BE6500 couldn't be easier: it takes just 3 steps. No more frustrating and complicated procedures!

01. Select Game
02. Select Device
03. Team Up



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SECURITY

ALWAYS SECURE, ALL-ROUND SMART HOME NETWORK PROTECTION

TUF Gaming BE6500 provides powerful cybersecurity solutions and cloud data centers and AI/ML from Trend Micro™ to shield your smart home from router, Internet and every connected device without monthly subscription.

Learn more about ASUS Network Security >



NETWORK SECURITY

COMPREHENSIVE TRIPLE LEVEL NETWORK PROTECTION

TUF Gaming BE6500 offers a triple-level protection strategy, enhancing your entire network with advanced features. This powerful approach delivers robust protection against evolving cyber threats.



01 # Connect to a Trusted Network

Internet Server

- Intrusion Detection & Prevention systems
- Comprehensive VPN Server & Client
- Safe Browsing / Safe search
- Instant Guard

- Firewall / DoS protection - VPN Fusion
- VPN network - DNS over TLS
- Site-to-site VPN

02 # Robust Security Center

TUF Gaming BE6500

- One-tap security scan
- Brute-force attack protection
- Password strength indicator
- Let's Encrypt™

- Security signature / Firmware auto update
- Instant Notification

03 # Safeguard Every Device

End Devices

- AiProtection
- Malicious site blocking
- Infected device prevention & blocking
- IoT network

- Virtual patch - MAC filter
- WPA2/ WPA3 - 802.1X/ RADIUS

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TRIPLE-LEVEL PROTECTION



Connected with Peace of Mind

Stay protected with top-tier security and privacy offered by a VPN's encrypted connections. No worries about your location and browsing habits, passwords and sensitive data, even more when you're using public WiFi.



Hassle-free Commercial-grade Protection

AiProtection Pro protects your router against ever-evolving online threats like malware, viruses, intrusions and phishing attacks – with just a single tap.



Safeguard Every Device and Everyone

Effortlessly customize WiFi networks tailored to modem smart home needs, ensuring all your devices and your loved ones are protected.

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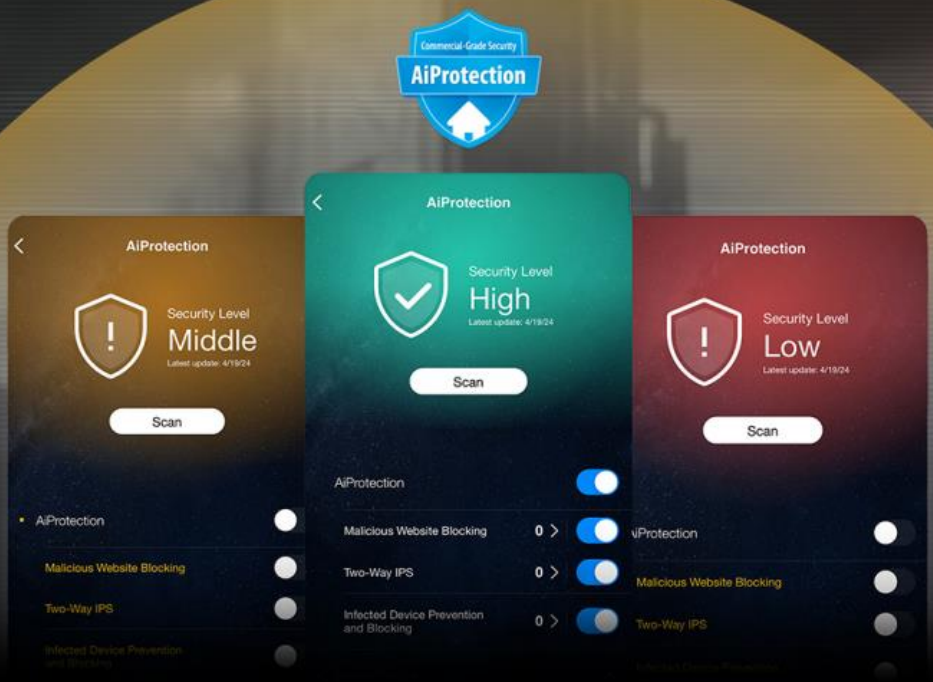
User Friendly

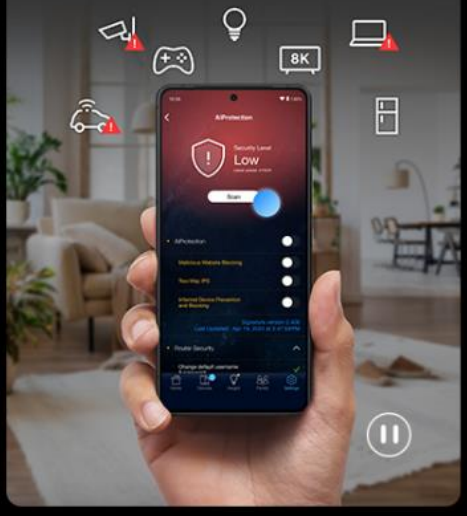
24/7 Protection Made Easy

AiProtection Pro includes a toolbox for diagnosing network health, fine-tuning settings, and receiving on-the-go notifications. Stay vigilant and secure, even when you are away.



One-tap Security Scan

One-tap router security assessment identifies vulnerabilities in your security settings, preventing malicious activities or infected devices.



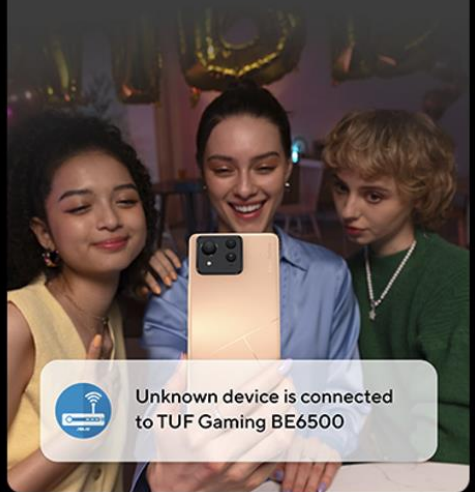
Auto Security Upgrade

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



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.



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VPN

Stay Protected Anywhere, Anytime

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

Comprehensive VPN features

Enjoy versatile VPN protocols, including the cutting-edge Wireguard® for lightning-fast speeds and optimal performance.



Multiple VPN Connection

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



Instant Guard

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



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NETWORK

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.



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.



Disclaimer :

- Products certified by the Industry Canada will be distributed in the United States and Canada. Please visit the ASUS Canada websites for information about locally available products.
- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
- Specifications and features vary by model, and all images are illustrative. Please refer to specification pages for full details.
- PCB color and bundled software versions are subject to change without notice.
- Brand and product names mentioned are trademarks of their respective companies.
- The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.
- The actual transfer speed of USB 3.0, 3.1, 3.2, and/or Type-C will vary depending on many factors including the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment.
- Actual data throughput and WiFi coverage will vary from network conditions and environmental factors, including the volume of network traffic, building material and construction, and network overhead, result in lower actual data throughput and wireless coverage.
- Quoted network speeds and bandwidth based on current IEEE 802.11ac specifications. Actual performance may be affected by network and service provider factors, interface type, and other conditions. Connected devices must be 802.11ac-compatible for best results.
- WPA/WPA2 enterprise is only available on single router, is not available under AiMesh mode.

What's Inside the Box

- TUF Gaming BE6500 WiFi 7 Router
- RJ-45 cable
- Power adapter
- Warranty card
- Quick start guide

Specifications

- Wireless Type : 802.11 be/ax/ac/n/g/a/b
- Wireless Speed : 2.4GHz up to 688 Mbps / 5GHz up to 5765 Mbps
- Wired Connectivity : 1 x WAN 2.5 Gigabit, 3 x LAN 2.5 Gigabit Ethernet port
- USB Ports : 1 x USB 3.0(USB 3.2 Gen 1x1)

Official Site

Dimension

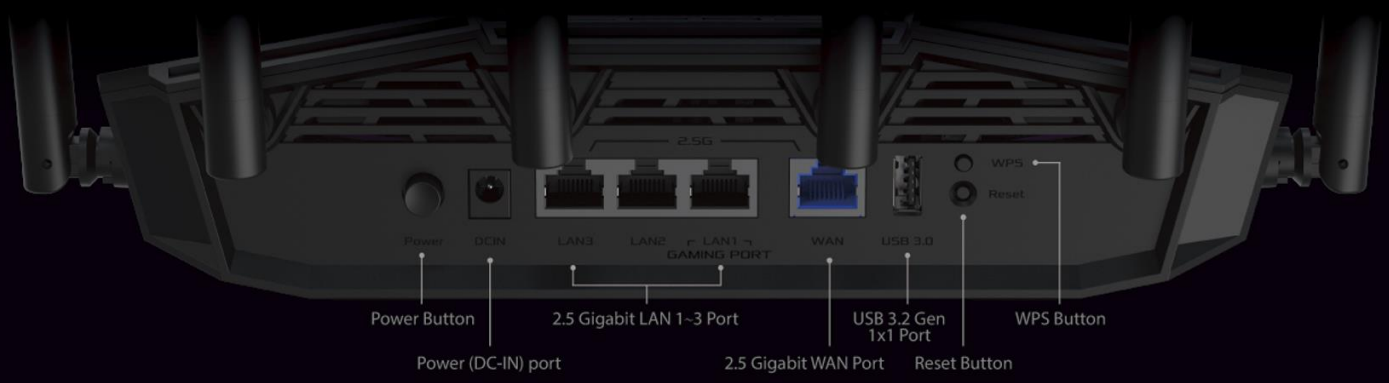
TUF Gaming BE6500 WiFi 7 Router

- 304 x 174 x 214 mm (with antenna)
- 772 g / 1.7 lb

Color Box

- 473 x 281 x 82 mm
- 1605 g

Connectivity



TUF GAMING BE6500 Specification	
Network Standard	Wi-Fi 7 (802.11be), Backwards compatible with 802.11a/b/g/n/ac/ax Wi-Fi IPv4, IPv6
Product Segment	BE6500 ultimate BE performance
Data Rate	2.4GHz BE: 2x2 (Tx/Rx) 4096 QAM 20/40MHz, up to 688 Mbps 5GHz BE: 4x4 (Tx/Rx) 4096 QAM 20/40/80/160MHz, up to 5765 Mbps
Antenna	External fixed antenna x 6
Transmit/Receive	2.4 GHz 2 x 2, 5 GHz 4 x 4
Processor	1.5GHz Quad-core Processor
Memory	256 MB Flash
	1 GB DDR4 RAM
Boosts speed	OFDMA (Orthogonal Frequency Division Multiple Access) Beamforming: standard-based and universal 4096-QAM high data rate 20/40/80/160 MHz bandwidth * The 160MHz bandwidth may be unavailable in the 5GHz band in some regions / countries due to regulatory restrictions.
Operating Frequency/Power	2.4 GHz <20dBm, 5 GHz < 30dBm
Ports/Button	1 x 2.5 Gigabit WAN Port, 3 x 2.5 Gigabit LAN Ports, 1 x USB 3.2 Gen 1x1 Port WPS Button, Reset Button, Power Button
LED Indicator	WAN(Internet) x1, LAN x1, 5GHz x 1, 2.4GHz x1, Power x1
Power Supply	AC Input : 110V~240V(50~60Hz) DC Output : 12 V with max. 2.5 A current
AiMesh	AiMesh, Primary AiMesh router, AiMesh node
Game	Game Boost/acceleration Mobile Game Mode OpenNAT (Game Profile) Gaming port
Alexa	Support Alexa skill
AiProtection	AiProtection Pro Router Security Assessment Malicious site blocking Two-Way IPS Infected Device Prevention and Blocking
Parental Control	Parental Control Parental Control Customized Internet schedule
Traffic Control	Adaptive QoS Bandwidth Monitor Bandwidth limiter Traditional QoS Traffic Monitor Real-time traffic monitor Wired Traffic Monitor Wireless Traffic Monitor Traffic Analyzer Traffic analysis period : Daily, Weekly, Monthly Website history

Wireless	IPv6 MU-MIMO WiFi Encryption : WPA3 Personal, WPA2 Personal, WPA Personal, WPA Enterprise, WPA2 Enterprise, WPA3 Enterprise, Open System UTF-8 SSID Guest Network Guest Network Connection time limit WPS Wi-Fi MAC address filter Maximum MAC filters : 64 Wireless scheduler Wi-Fi Radar Airtime fairness RADIUS Server Universal beamforming
WAN	Explicit beamforming Dual WAN 3G/4G LTE dongle Android tethering Port forwarding Maximum port forwarding rule : 64 Port triggering Maximum port triggering rule : 32 DMZ, DDNS NAT Passthrough : PPTP, L2TP, IPSec, RTSP, H.323, SIP Passthrough, PPPoE relay Let's Encrypt, Safe browsing, DNS-over-TLS
LAN	DHCP Server, IGMP snooping, IPTV, Manually assign IP address
VPN	Client: L2TP, OVPN, PPTP, WireGuard Server: IPSec, OVPN, PPTP, WireGuard VPN Fusion
USB application	File System : HFS+, NTFS, vFAT, ext2, ext3, ext4 HDD hibernation Safely Remove disk AiCloud, Download master, AiDisk, Media Server Time Machine Samba Server, FTP Server Shared Folder privileges
Administration	Operating mode : Wireless router mode, AiMesh Node Mode, Access point mode, Media Bridge Mode, Repeater Mode Free OS upgrade Firewall Maximum Firewall keyword filter : Max 64 rules Maximum Firewall network service filter : Max 32 rules Maximum Firewall URL filter : Max 64 rules Wake on LAN (WOL) SSH Configuration backup and restore Diagnosis tools, Feedback system, System log New Device Connect Notification Login Captcha Connection Diagnosis Security Scan Auto Firmware Update