

# BE24000 Quad-Band Wi-Fi 7 Router

Redefining Wi-Fi Routers









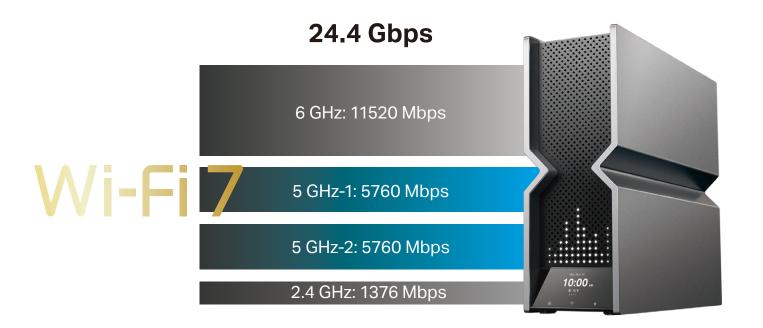
 24.4 Gbps 16-Stream
 2× 10 Gbps Ports + 4×
 12× Layout-Optimized
 LED Screen + Touch Supports All Wi-Fi Gen 

 Quad-Band Wi-Fi 7<sup>†</sup>
 2.5 Gbps Ports
 Internal Antennas
 screen for More Fun
 Image: All Wi-Fi Gen 

# Highlights

# Wi-Fi 7 — Wi-Fi Like Never Before

Experience blazing-fast Wi-Fi speeds up to 24.4 Gbps. With a quad-band Wi-Fi 7 router, every device in your home network runs at top performance. The brand-new 6 GHz band provides exceptional bandwidth and congestion-free channels exclusive to your devices.<sup>†</sup>



Archer BE900

#### 320 MHz Channels

Double the width, double the speed.<sup>‡</sup>

4K-QAM

Packs 120% more data than Wi-Fi 6 for higher speeds.<sup>‡</sup>

# Highlights

# Archer BE900 — Redefining Wi-Fi Routers

Say goodbye to traditional Wi-Fi routers that use external antennas. Archer BE900 redefines Wi-Fi routers with the latest Wi-Fi 7 technology, 10G multi-gigabit ports, a brand-new appearance, internal antennas, and an easy-to-use touchscreen.

#### 12× Internal Antennas

Proprietary Wi-Fi optimization and 12× optimally positioned antennas deliver more capacity, stronger and more reliable connections, and less interference.

### Advanced Case Design

The metallic texture enhances the sense of quality and helps it perfectly integrate into any home environment. A larger heat sink and refined casing keeps the system cool under performance.

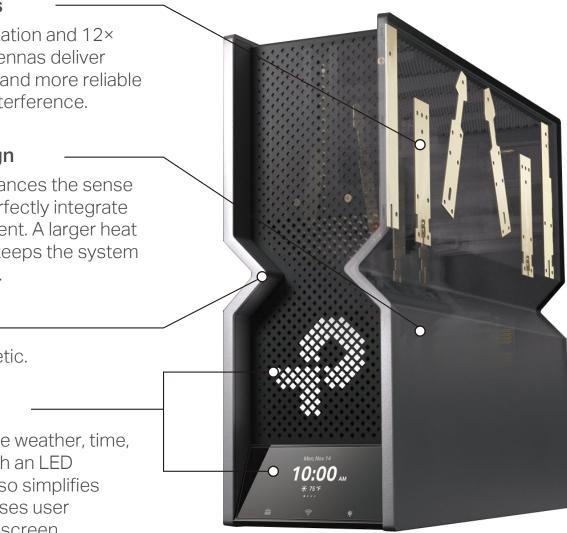
### V-Fold Design

Maintains a sharp aesthetic.

### Easy and Fun to Use

Visually displays real-time weather, time, text, and even emojis with an LED screen. Archer BE900 also simplifies management and increases user interaction with its touchscreen.





Picture for reference only.

# Highlights

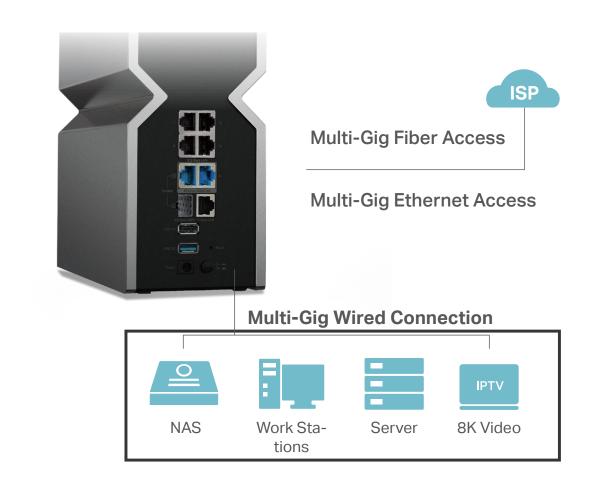
# **TP-Link HomeShield**

Manage online time and block inappropriate content to maintain healthy online habits with Parental Controls. Quality of Services (QoS) and Network Protection further keep your home network smooth and safe.\*

# **Future-Proof Wired Connectivity**

Equipped with two 10 Gbps WAN/LAN ports—one RJ45 port and a RJ45/SFP+ combo port—Archer BE900 provides flexible support for both fiber and copper connections. The additional four 2.5 Gbps ports, one gigabit port, and two USB ports make it an ideal solution for future-proofing your home network.§





Comprehensive Reports

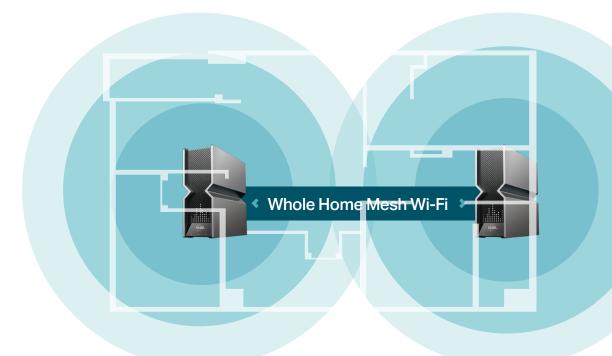
# Highlights

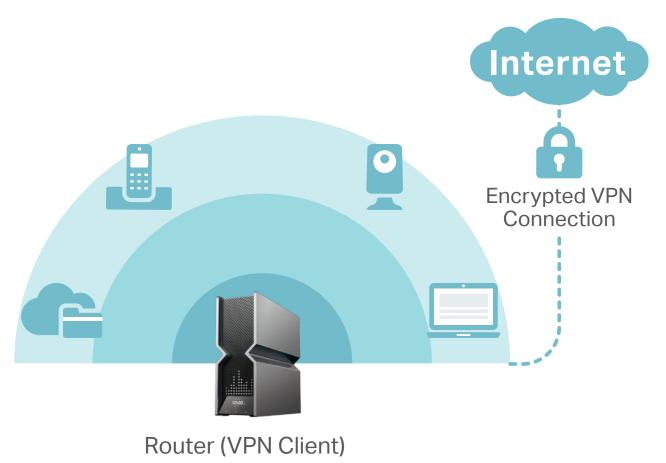
### Flexible Whole Home Wi-Fi

### Twelve high-performance antennas with optimized layout and Beamforming deliver broad coverage. Furthermore, Archer BE900 is compatible with EasyMesh to form seamless whole home mesh Wi-Fi, preventing drops and lag when moving between signals.\*\*\*\*

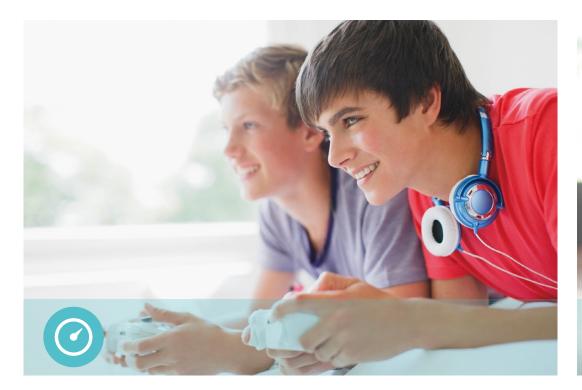
# **VPN Client Support**

With VPN client support, Archer BE900 allows specified devices in your home network to access remote VPN servers without needing to install VPN software on every device. Archer BE900 can also run a VPN and ordinary internet connections at the same time for added security and flexibility.



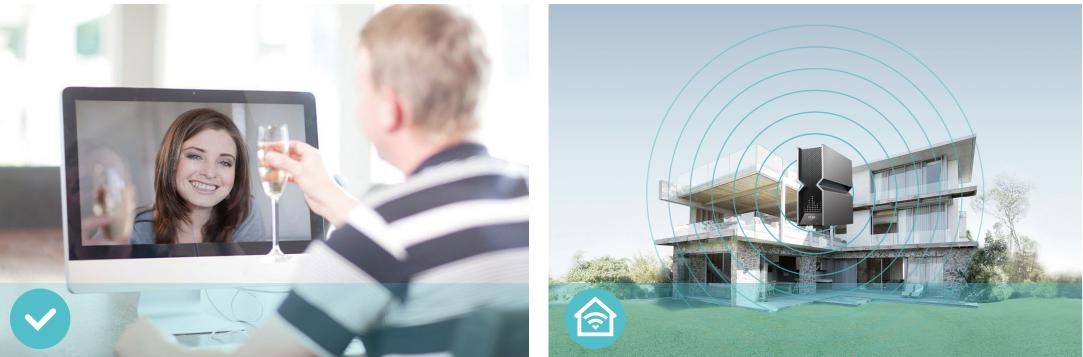


# Features



### **Ultra-Fast Speed**

- Warp-Speed BE24000 Wi-Fi Up to 24 Gbps quad-band
   Wi-Fi 7 enables gaming, streaming and high-speed
   downloading on multiple devices—all at the same time<sup>†</sup>
- 10G Multi-Gig Ports Two 10G ports—one RJ45 port and a RJ45/SFP+ combo port—Archer BE900 provides flexible support for both fiber and copper connections. Make full use of gigabit speeds from your local ISP.<sup>§</sup>
- Greenfield 6 GHz Band Provides robust high-speed connections with a brand-new expansive and congestion-free band.
- Wi-Fi 7 Wi-Fi 7 (802.11be) features advanced technologies, including 320MHz channels and 4K QAM, drastically increasing the speed and efficiency of your entire network.<sup>‡</sup>
- Smart Connect Intelligently assigns each device to the best Wi-Fi band for optimal performance.



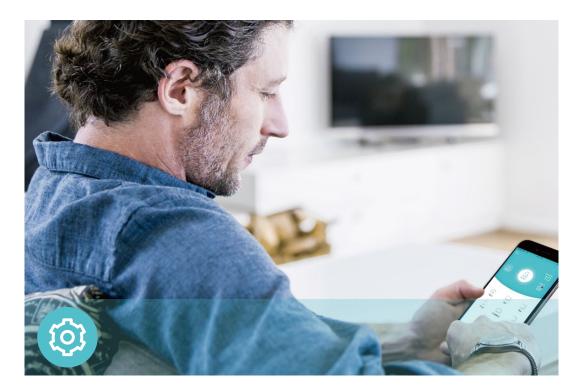
# High Capacity and Reliable Connections

- Maximized Capacity Communicates with multiple devices via 16 streams and quad-band simultaneously. Combined with OFDMA and MU-MIMO, 16 streams won't affect your online gaming.\*
   • Ultimate Range Wi-Fi – Proprietary Wi-Fi optimization, 12x high-performance antennas with optimized layout, and Beamforming deliver more capacity, stronger and mroe reliable connections, and less interference.
   • Beamforming Technology – Concentrates Wi-Fi signals towards
- 24.4 Gbps Quad-Band Wi-Fi 7 Enables your devices to run at full speed. Enjoy robust high-speed connections congestion-fress on the wide and clear 6 GHz band.
- Airtime Fairness Balances bandwidth of connected devices to improve overall throughput and efficiency.

# Broad Wi-Fi Range

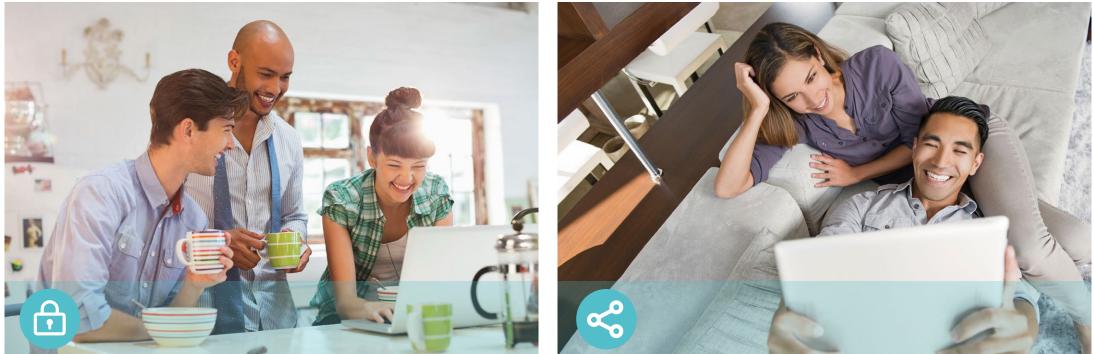
- Beamforming Technology Concentrates Wi-Fi signals towards individual devices to ensure stronger connections.
- Seamless EasyMesh network Transfer between seamless whole-home Wi-Fi without any drops or lag and manage your whole network using a centralized panel.

# Features



### Ease of Use

- Hassle-free Management with Tether App Network management is made easy with the TP-Link Tether app, available on any Android and iOS device.
- Intuitive Web UI Ensures quick and simple installation without hassle.
- WPS (Wi-Fi Protected Setup) Help you to quickly and securely connect your devices to the router's network with a tap.
- Backwards Compatible Take your Wi-Fi to the next level while being backwards compatible with existing 802.11a/b/g/n/ac/ax Wi-Fi standards.
- LED Screen & Touchscreen Easily check network status and explore more fun.
- Works with Amazon Alexa and Google Assistant Utilize Amazon Alexa and Google Assistant to control everything via voice commands to enjoy truly intelligent life.



# **Robust Security**

- HomeShield TP-Link's premium security services keep your home network safe with cutting-edge features for network and loT protection.\*
   VPN Clients and Server Supported – With VPN client support, BE900 allows specified devices in your home network to access remote VPN servers without needing to install VPN software on every device.
- Parental Controls Manage online time and block inappropriate content to control your family's digital habits.
- Guest Network Provides separate access for guests to secure the home network.
   Built-in Media Server – Allows you to play music, watch videos and view photos from any device on your network.
- Advanced WPA3 Encryptions The latest WiFi security protocol, WPA3, brings new capabilities to improve cybersecurity in personal networks.\*\*
   More Values – Advanced functions like IPTV, IPv6 compatibility, and Access Point mode bring more values.
- Access Control Establishes a whitelist or blacklist to allow or restrict certain devices to access the internet.

# Value-Added Features

• USB 2.0/3.0 Port – Connects external storage devices to rapidly share files, photos, and videos.

# **Specifications**

### Wireless

- Standards: IEEE 802.11be/ax 6 GHz, IEEE 802.11be/ax/ac/n/a 5 GHz, IEEE 802.11be/ax/n/b/g 2.4 GHz
- WiFi Speeds: 11520 Mbps (6 GHz) + 5760 Mbps (5 GHz-1) + 5760 Mbps (5 GHz-2) + 1376 Mbps (2.4 GHz)<sup>†</sup>
- WiFi Range: 12× High-Performance Antennas with Optimized Layout
- · WiFi Capacity: Quad-Band, 4×4 MU-MIMO, OFDMA, Airtime Fairness, DFS, 16 Streams
- Working Modes: Router Mode, Access Point Mode

### Hardware

- Ethernet Ports: 1× 10 Gbps RJ45/SFP+ Combo WAN/LAN Port, 1× 10 Gbps WAN/LAN Port, 4× 2.5 Gbps LAN Port, 1× 1 Gbps LAN Ports
- USB Support: 1× USB 3.0 Port, 1× USB 2.0 Port
- · Buttons: Power On/Off Button, Reset Button
- · Screen Display: LED Screen, Touchscreen

# Security

- Layer Gateway, HomeShield Security
- · Guest Network: Guest Network

## Software

- Protocols: IPv4, IPv6
- Service Kits: HomeShield
- EasyMesh: Supported

- Quality of Service: QoS by Device

- DDNS: TP-Link, NO-IP, DynDNS

• WiFi Encryption: WPA, WPA2, WPA3, WPA/WPA2-Enterprise (802.1x)

Network Security: SPI Firewall, Access Control, IP & MAC Binding, Application

6 GHz Guest Network, 5GHz-1 Guest Network, 5GHz-2 Guest Network, 2.4 GHz

· VPN Server: OpenVPN, PPTP, L2TP VPN Server, Wireguard VPN · VPN Client: OpenVPN, PPTP, L2TP VPN Client, Wireguard VPN

 Parental Controls: HomeShield Parental Controls • WAN Types: Dynamic IP, Static IP, PPPoE, PPTP, L2TP Cloud Service: Auto Firmware Upgrade, TP-Link ID, DDNS NAT Forwarding: Port Forwarding, Port Triggering, DMZ, UPnP

# **Specifications**

# Physical

Dimensions (W×D×H): 11.9 ×10.3 × 3.8 in (302× 262.5 × 96 mm)

#### · Package Contents:

Wi-Fi Router Archer BE900

Power Adapter

RJ45 Ethernet Cable

**Quick Installation Guide** 

# Other

#### System Requirements:

Internet Explorer 11+, Firefox 12.0+, Chrome 20.0+, Safari 4.0+, or other JavaScript-enabled browser

Cable or DSL Modem (if needed)

Subscription with an internet service provider (for internet access)

- Certifications: FCC, RoHS
- Environment:

Operating Temperature:  $0^{\circ}C \sim 40^{\circ}C$  (32 F  $\sim 104^{\circ}F$ )

Operating Humidity: 10%~90% non-condensing



#### For more information, please visit

http://www.tp-link.com/products/details/Archer-BE900.html
or scan the QR code left

# **Test Data**

WiFi Transmission Power:

FCC: ≤ 30 dBm (2.4 GHz), ≤ 30 dBm (5 GHz), ≤ 25 dBm (6 GHz)

· WiFi Reception Sensitivity:

#### 2.4 GHz:

6 GHz: 11ax HE20 MCS0:-95dBm, 11ax HE20 MCS11:-65dBm 11ax HE40 MCS0:-93dBm, 11ax HE40 MCS11:-63dBm 11ax HE80 MCS0:-90dBm, 11ax HE80 MCS11:-59dBm 11ax HE160 MCS0:-87dBm, 11ax HE160 MCS11:-56dBm 11be EHT20 MCS13:-58dBm,11be EHT40 MCS13:-56dBm 11be EHT80 MCS13:-53dBm,11be EHT160 MCS13:-50dBm 11be EHT320 MCS0:-84dBm,11be EHT320 MCS13:-47dBm

11ax HE20 MCS0:-98dBm, 11ax HE20 MCS11:-68dBm 11ax HE40 MCS0:-95dBm, 11ax HE40 MCS11:-65dBm 11be EHT20 MCS13:-60dBm,11be EHT40 MCS13:-58dBm 5 GHz-1: 11ax HE20 MCS0:-95dBm, 11ax HE20 MCS11:-65dBm 11ax HE40 MCS0:-93dBm, 11ax HE40 MCS11:-62dBm 11ax HE80 MCS0:-90dBm, 11ax HE80 MCS11:-59dBm 11ax HE160 MCS0:-86dBm, 11ax HE160 MCS11:-56dBm 11be EHT20 MCS13:-58dBm,11be EHT40 MCS13:-56dBm 11be EHT80 MCS13:-53dBm,11be EHT160 MCS13:-50dBm 5 GHz-2:

11ax HE20 MCS0:-96dBm, 11ax HE20 MCS11:-66dBm 11ax HE40 MCS0:-94dBm, 11ax HE40 MCS11:-63dBm 11ax HE80 MCS0:-91dBm, 11ax HE80 MCS11:-60dBm 11ax HE160 MCS0:-87dBm, 11ax HE160 MCS11:-57dBm 11be EHT20 MCS13:-59dBm.11be EHT40 MCS13:-57dBm 11be EHT80 MCS13:-54dBm,11be EHT160 MCS13:-51dBm

†Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications, Actual wireless data throughput, wireless coverage, and connected devices are not guaranteed and will vary as a result of network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location

#Use of Wi-Fi 7 (802.11be), Wi-Fi 6 (802.11ax), and features including 320 MHz Bandwidth, 4K-QAM, OFDMA, and MU-MIMO requires clients to also support the corresponding features.

The 320 MHz bandwidth is only available on the 6 GHz band. Simultaneously, the 320 MHz bandwidth on the 6 GHz band and 160 MHz for Wi-Fi 6 routers. \$10 Gbps internet speeds require compatible service plans and equipment. The two 10 Gbps ports cannot be concurrently configured as WAN ports.

\*HomeShield includes the Free Basic Plan. Fees apply for the Pro Plan. Visit tp-link.com/homeshield for more information

\*\*Use of WPA3 requires clients to also support the corresponding feature.

\*\*\*Wi-Fi generations represent the wireless standard IEEE 802.11 a/b/g/n/ac/ax/be. All devices need to support 802.11 Wi-Fi protocols.

\*\*\*\*TP-Link EasyMesh-compatible products can network with other devices that use EasyMesh. Failed connections may be due to firmware conflicts of different vendors. The EasyMesh-compatible function is still being developed on some models and will be supported in subsequent software updates. Actual network speed may be limited by the rate of the product's Ethernet WAN or LAN port, the rate supported by the network cable, Internet service provider factors and other environmental conditions.

This router may not support all the mandatory features as ratified in the IEEE 802.11be specification.

Further software upgrades for feature availability may be required.

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