



# AX6000

## 8-Stream Wi-Fi 6 Router

Faster. Broader. Unstoppable.



Archer AX80



Warp-Speed Wi-Fi  
up to 6.0 Gbps<sup>1</sup>



Connect More Devices  
OFDMA + MU-MIMO<sup>2</sup>



Top-Notch Processing  
Quad-Core CPU



Easy Sharing with  
a USB 3.0 Port

## Highlights

### Wi-Fi 6<sup>E</sup> Faster. Broader. Unstoppable.

The Archer AX80, based on the next generation Wi-Fi 6 (802.11ax) technology, takes your Wi-Fi to the next level while being backwards compatible with previous generations (802.11a/b/g/n/ac standards) Wi-Fi.



#### Gigabit Wi-Fi for 8K Streaming

Equipped with an advanced 4x4 HE160 structure for peak speeds at 4804 Mbps on the 5 GHz band, giving you full access to multiple 8K streaming and high-speed downloading.<sup>1</sup>



#### Connect Numerous Devices

OFDMA and MU-MIMO transmit data to multiple devices simultaneously across 8 streams, drastically reducing lag and allowing more applications to run at the same time.<sup>2</sup>



#### Smart Power Saving

Conserve the power of your mobile devices by scheduling the connection time of battery-powered devices with Target Wake Time.



#### Backwards Compatible

Take your Wi-Fi to the next level while being backwards compatible with existing 802.11a/b/g/n/ac Wi-Fi standards.

### TP-Link HomeShield

TP-Link's premium security services keep your home network safe with cutting-edge features for network and IoT protection.<sup>4</sup>



#### Network Protection

Detect cyber threats to keep your privacy and connected devices well protected.



#### Quality of Service (QoS)

Prioritize your bandwidth needs to get a better networking experience.



#### Parental Controls

Manage online time and block inappropriate content to control your family's digital habits.



#### Comprehensive Reports

Gain full statistics and insights to help you understand your home network.

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## Highlights

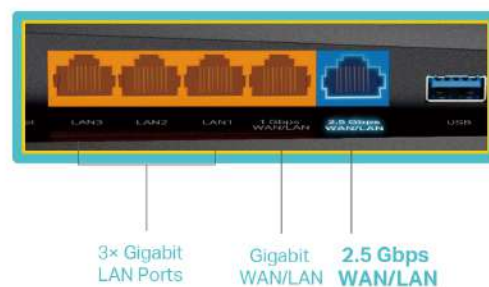
### Flexible Whole-Home Wi-Fi

High-performance antennas and Beamforming deliver broad coverage. Furthermore, Archer AX80 supports OneMesh™ to form seamless whole-home coverage, preventing drops and lag when moving between signals.



### Multi-Gig Internet Connection

A 2.5 Gbps port and 1 Gbps port make full use of gigabit speeds from your local ISP. Break through the 1G bottleneck and drive your devices to peak performance. WAN/LAN support gives you remarkable flexibility to tailor both ports to fit your network's needs.<sup>3</sup>



## Highlights

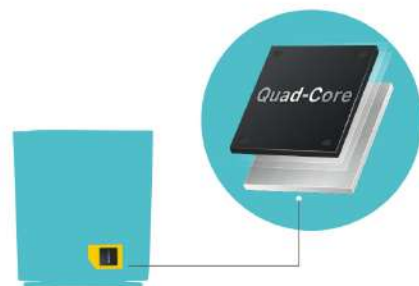
### VPN Client Supported

With VPN client support, AX80 allows specified devices in your home network to access remote VPN servers without needing to install VPN software on every device. AX80 can also run both the VPN and ordinary internet connections at the same time, delivering security and flexibility.

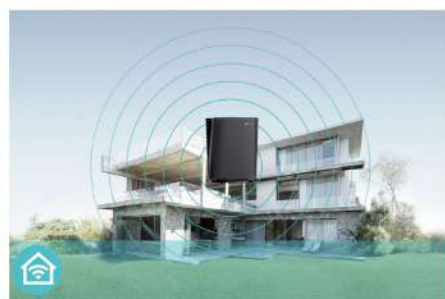


### Top-Notch Processing

A Quad-Core CPU provides the processing ability to handle enormous data throughput and minimizes the lag within your home network, giving you a smooth online experience.



## Features



### Unmatched Speeds

- **Warp-Speed Wi-Fi** – 6.0 Gbps Wi-Fi for faster browsing, streaming, and downloading—all at the same time.<sup>1</sup>
- **Wi-Fi 6 Technology** – Wi-Fi 6 (802.11ax) features advanced technologies, including OFDMA, HE160, and 1024-QAM, drastically increasing the speed and efficiency of your entire network.<sup>2</sup>
- **160 MHz Channel** – Double the data at peak transmission time on a single stream.<sup>2</sup>
- **Smart Connect** – Intelligently assigns each device to the best Wi-Fi band for optimal performance.
- **Multi-Gig Internet Connection** – A 2.5 Gbps port and 1 Gbps port make full use of gigabit speeds from your local ISP. Break through the 1G bottleneck and drive your devices to peak performance.

### High Capacity and Reliable Connections

- **Top-Notch Processing** – A Quad-Core CPU provides the processing ability to handle enormous data throughput and minimizes the lag within your home network.
- **Connect More, Stay Fast** – Supports OFDMA to reduce congestion and quadruple your average throughput.<sup>3</sup>
- **MU-MIMO and 8-Stream** – Simultaneously sends data to multiple devices for faster speed, offering 4× larger capacity.<sup>4</sup>
- **Airtime Fairness** – Balances bandwidth of connected devices to improve overall throughput and efficiency.

### Broad Wi-Fi Range

- **Ultimate Range Wi-Fi** – Four dual-band high-gain internal antennas deliver a Wi-Fi signal to every corner of your home, making all of your connections more efficient and stable.
- **Beamforming Technology** – Concentrates Wi-Fi signals towards individual devices to ensure stronger connections.
- **Seamless OneMesh network** – Transfer between signals without any drops or lag and manage your whole network using a centralized panel.

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## 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.
- **Backwards Compatible** – Take your Wi-Fi to the next level while being backwards compatible with existing 802.11a/b/g/n/ac Wi-Fi standards.
- **Works with Amazon Alexa and Google Assistant** – Utilize Amazon Alexa and Google Assistant to control everything via voice commands to enjoy truly intelligent life.
- **Flexible Placement to Fit Your Home** – Archer AX80 is easy to place vertically on a desktop or mount to a wall.

### Robust Security

- **HomeShield** – TP-Link's premium security services keep your home network safe with cutting-edge features for network and IoT protection.\*
- **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.
- **Advanced WPA3 Encryptions** – The latest WiFi security protocol, WPA3, brings new capabilities to improve cybersecurity in personal networks.\*\*
- **Access Control** – Establishes a whitelist or blacklist to allow or restrict certain devices to access the internet.

### Value-Added Features

- **USB 3.0 Port** – Connects external storage devices to rapidly share files, photos, and videos.
- **Built-in Media Server** – Allows you to play music, watch videos and view photos from any device on your network.
- **More Values** – Advanced functions like IPTV, IPv6 compatibility, and Access Point mode bring more values.

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# Specifications

## Wireless

- Standards: IEEE 802.11ax/ac/n/a 5 GHz, IEEE 802.11ax/n/b/g 2.4 GHz
- WiFi Speeds: 4804 Mbps (5 GHz) + 1148 Mbps (2.4 GHz)\*
- WiFi Range: 4× Dual-band High-performance Internal Antennas, Beamforming
- WiFi Capacity: Dual-Band, OFDMA, Airtime Fairness, DFS, 8 Streams
- Working Modes: Router Mode, Access Point Mode

## Hardware

- Processor: Quad-Core CPU
- Ethernet Ports: 1× 2.5 Gbps WAN/LAN, 1× 1 Gbps WAN/LAN, 3× Gigabit LAN
- USB Support: 1× USB 3.0 Port
- Buttons: LED On/Off and Wi-Fi On/Off Combo Button, Reset Button, Power On/Off Button, WPS Button
- Power: 12 V/2 A
- Installation: Desktop, Wall-Mounting



## Security

- WiFi Encryption: WPA, WPA2, WPA3, WPA/WPA2-Enterprise (802.1x)
- Network Security: SPI Firewall, Access Control, IP & MAC Binding, Application Layer Gateway, HomeShield Security
- Guest Network: 1× 5 GHz Guest Network, 1× 2.4 GHz Guest Network
- VPN Client and Server: OpenVPN, PPTP, L2TP

## Software

- Protocols: IPv4, IPv6
- Service Kits: HomeShield
- OneMesh: Supported
- Parental Controls: HomeShield Parental Controls
- WAN Types: Dynamic IP, Static IP, PPPoE, PPTP, L2TP
- Quality of Service: QoS by Device
- Cloud Service: Auto Firmware Upgrade, TP-Link ID, DDNS
- NAT Forwarding: Port Forwarding, Port Triggering, DMZ, UPnP, Virtual Server
- DDNS: TP-Link, NO-IP, DynDNS



# Specifications

## Physical

- **Dimensions (W×D×H):** 7.4 × 2.3 × 7.9 in (189 × 59 × 200 mm)
- **Package Contents:**
  - Wi-Fi Router Archer AX80
  - 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:** CE, RoHS, JPA, JRF, VCCI
- **Environment:**
  - Operating Temperature: 0°C~40°C (32°F ~104°F)
  - Operating Humidity: 10%~90% non-condensing



For more information, please visit  
<http://www.tp-link.com/products/details/Archer-AX80.html>  
or scan the QR code left

\*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 6 (802.11ax) architectures, including OFDMA, MU-MIMO, 1024-QAM, and HE160 require clients to also support the corresponding features. The 160 MHz bandwidth may be unavailable in the 5 GHz band in some regions/countries due to regulatory restrictions.  
‡2.5 Gbps internet speeds require compatible service plans and equipment. 2.5 Gbps and 5 Gbps ports cannot be concurrently configured as WAN ports.  
§Spinning clients' battery power required clients to also support the 802.11ax Wi-Fi standard. Actual power consumption may vary as a result of network conditions, client limitations, and environmental factors.  
||Transferring includes the Free Basic Plan. Fees apply for the Pro Plan. Visit tp-link.com/homehelp for more information.  
\*\*Use of WPA3 requires clients to also support the corresponding feature.  
\*\*\*This router may not support all the mandatory features as listed in IEEE 802.11ax specification. Further software upgrades for feature availability may be required.  
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## Test Data

- **WiFi Transmission Power:**
  - CE: <23dBm (5.15GHz~5.35GHz)
  - <30dBm (5.47GHz~5.71GHz)
  - <20dBm (2.4GHz)
- **Wi-Fi Reception Sensitivity:**
  - 2.4 GHz:
    - 11ac VHT20 MCS0: -96dBm, 11ac VHT20 MCS8: -73dBm,
    - 11ac VHT40 MCS0: -94dBm, 11ac VHT40 MCS9: -68dBm,
    - 11ax HE20 MCS0: -95dBm, 11ax HE20 MCS11: -66dBm,
    - 11ax HE40 MCS0: -93dBm, 11ac HE40 MCS11: -63dBm
  - 5 GHz:
    - 11ac VHT20 MCS0: -94dBm, 11ac VHT20 MCS8: -70dBm,
    - 11ac VHT40 MCS0: -91dBm, 11ac VHT40 MCS9: -67dBm,
    - 11ac VHT80 MCS0: -88dBm, 11ac VHT80 MCS9: -63dBm,
    - 11ax HE20 MCS0: -94dBm, 11ax HE20 MCS11: -64dBm,
    - 11ax HE40 MCS0: -91dBm, 11ax HE40 MCS11: -61dBm,
    - 11ax HE80 MCS0: -88dBm, 11ax HE80 MCS11: -58dBm,
    - 11ax HE160 MCS0: -84dBm, 11ax HE160 MCS11: -55dBm