



# AXE16000 Quad-Band 16-Stream Wi-Fi 6E Router

BEYOND FAST



Archer AXE300

 Ultra-Fast 16 Gbps Industry-Leading Wi-Fi Speeds†

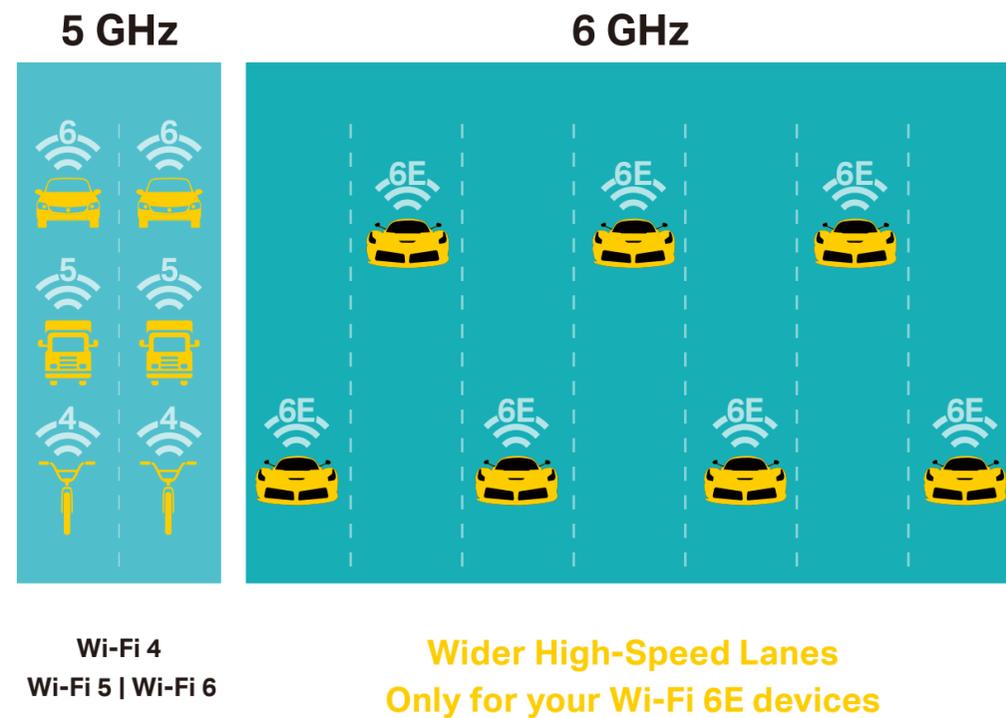
 Dual 10G Ports Flexible Connectivity

 2.0 GHz Quad-Core High-Performance CPU

**6E** Wi-Fi 6E Greenfield 6 GHz Band

# Highlights

**Wi-Fi 6E** Huge Leap Forward for Wi-Fi



## Robust High-Speed Connections

Connect to an even faster Wi-Fi. The brand-new 6 GHz band is wide enough for several extra 160 MHz channels, preventing competition over bandwidth and drops in speed.†

## Clean and Congestion-Free

The 6 GHz band is exclusive to Wi-Fi 6E devices, which prevents interference from legacy devices. Unleash the most out of the latest Wi-Fi and enjoy congestion-free networking.

# Highlights

Beyond Fast — Run Your Wi-Fi at Top Gear

Archer AXE300 **15560 Mbps**

**16 STREAMS**  
Higher simultaneous transmissions

**1024-QAM**  
More data encoded at one time

**160 MHZ CHANNELS**  
Highest channel width on a single stream

**6 GHZ BAND**  
More bandwidth, faster speeds, lower latency

Experience industry-leading Wi-Fi speeds up to 16 Gbps with Archer AXE300. Every device in your network receives premium performance thanks to quad-band connectivity. The brand new 6 GHz band provides exceptional bandwidth and congestion-free channels exclusive to Wi-Fi 6E devices.†

# Highlights

## TP-Link HomeShield

TP-Link's premium security services keep your home network safe with cutting-edge features for network and IoT protection.\*



### 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 maintain healthy online habits.

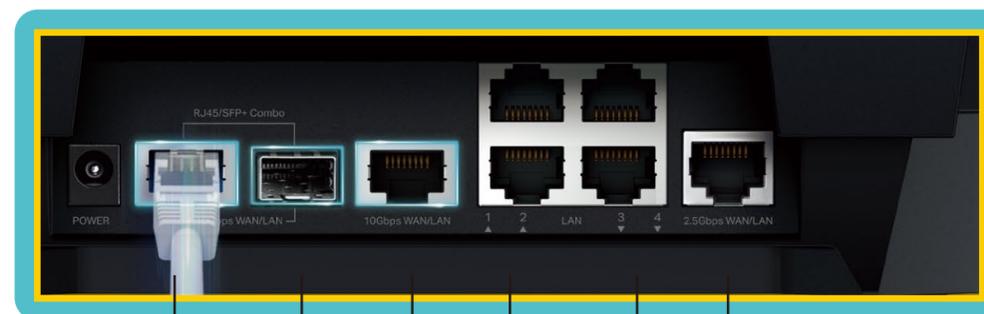


### Comprehensive Reports

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

## Future-Proof Wired Connectivity

Equipped with two 10G ports—one RJ45 port and a RJ45/SFP+ combo port—Archer AXE300 provides flexible support for both fiber and copper connections. AXE300's additional 2.5G port, 4 Gigabit ports, and USB 3.0 port make it an ideal solution for future-proofing your home network.<sup>§</sup>



10 Gbps SFP+/RJ45 WAN/LAN Port      4× Gigabit LAN Ports  
10 Gbps WAN/LAN Port      2.5 Gbps WAN/LAN Port

# Features



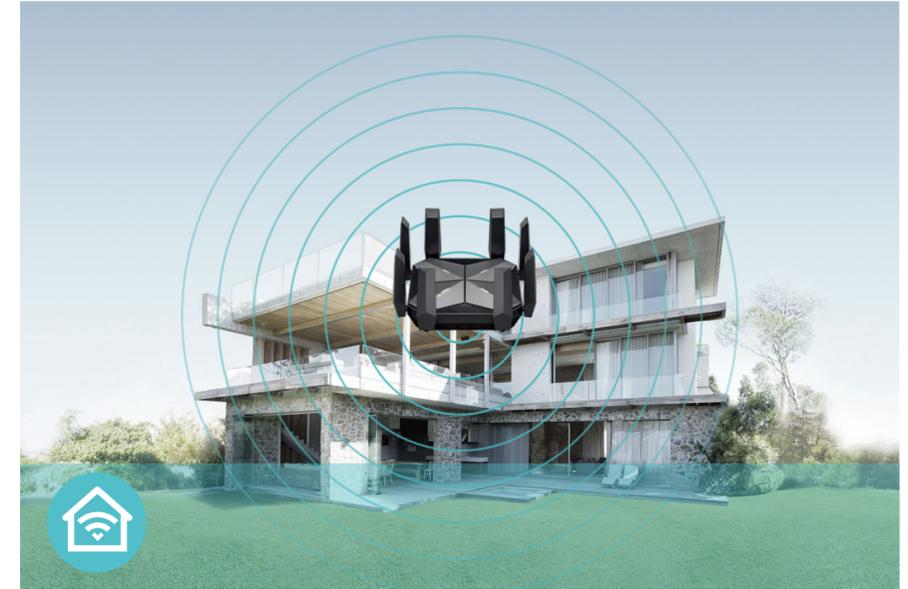
## Ultra-Fast Speed

- **Warp-Speed AXE16000 Wi-Fi** – Up to 16 Gbps quad-band Wi-Fi 6E 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 AXE300 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 6** – 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>‡</sup>
- **Smart Connect** – Intelligently assigns each device to the best Wi-Fi band for optimal performance.



## High Capacity and Reliable Connections

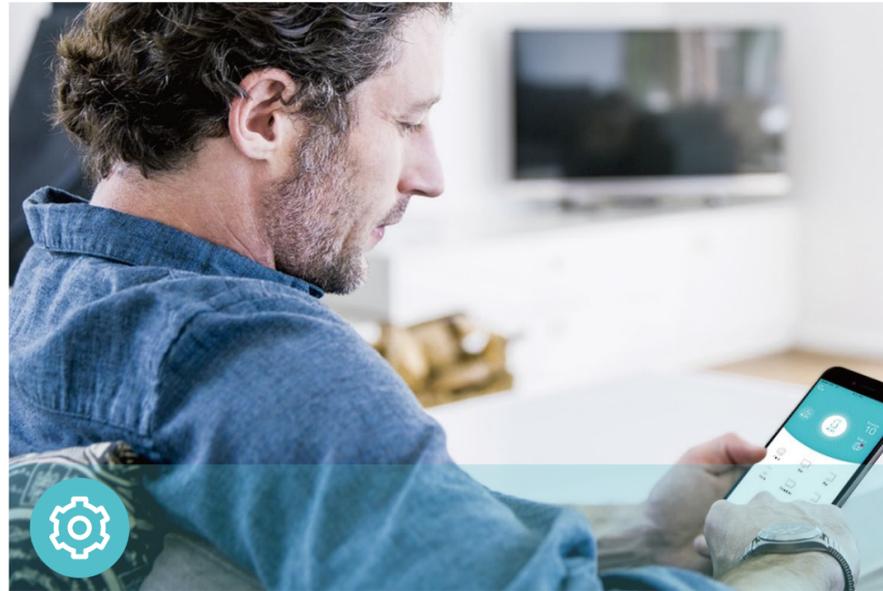
- **Top-Notch Processing** – A 2.0 GHz Quad-Core CPU provides the processing ability to handle enormous data throughput and minimizes the lag within your home network.
- **Connect 200+ Devices** – Simultaneously sends data to multiple devices for faster speed, offering 4× larger capacity up to 200+ clients with 16 streams, quad bands, MU-MIMO, and OFDMA.<sup>†</sup>
- **Connect More, Stay Fast** – Supports OFDMA to reduce congestion and quadruple your average throughput.<sup>‡</sup>
- **Airtime Fairness** – Balances bandwidth of connected devices to improve overall throughput and efficiency.



## Broad Wi-Fi Range

- **Ultimate Range Wi-Fi** – Eight high-gain dual-band antennas and high-power FEM boosts Wi-Fi signals throughout your home.
- **Beamforming Technology** – Concentrates Wi-Fi signals towards individual devices to ensure stronger connections.
- **Seamless OneMesh network** – Transfer between seamless whole-home Wi-Fi without any drops or lag and manage your whole network using a centralized panel.

# Features



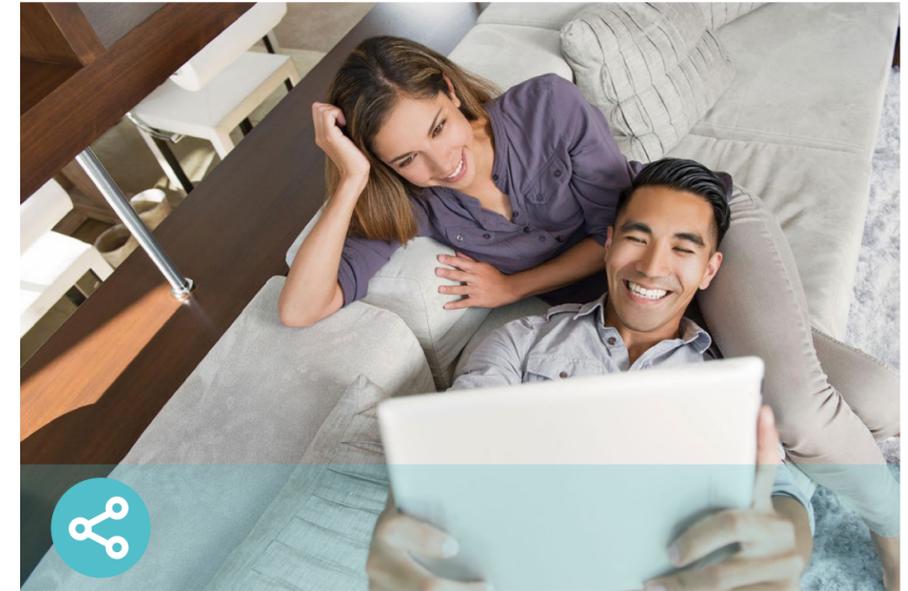
## Ease of Use

- 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 802.11 a/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.



## 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

- VPN Clients and Server Supported – With VPN client support, AXE300 allows specified devices in your home network to access remote VPN servers without needing to install VPN software on every device.
- 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.

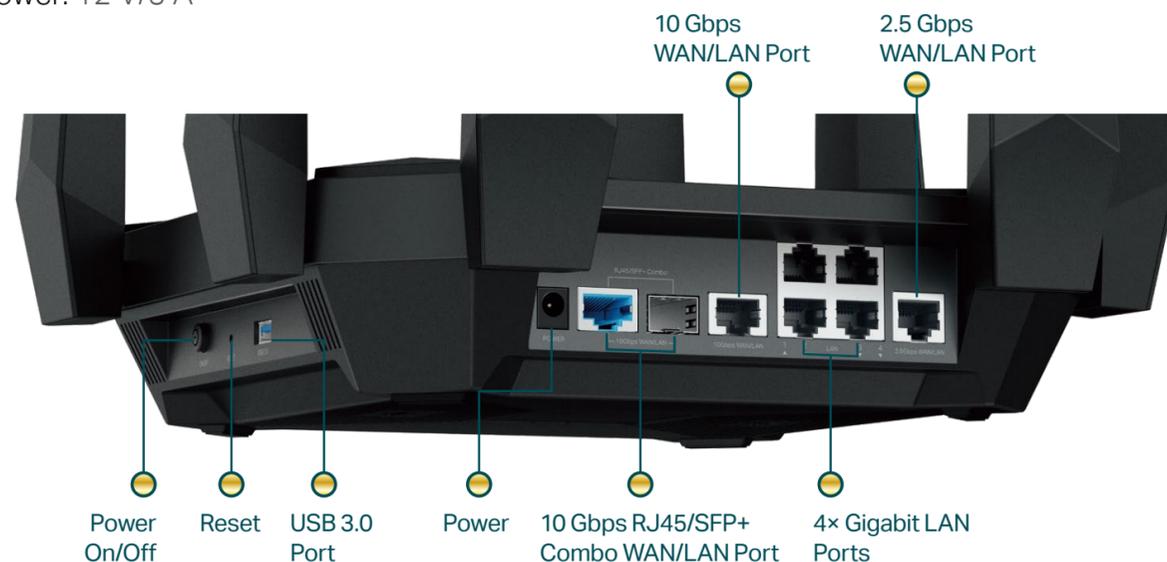
# Specifications

## Wireless

- Standards: IEEE 802.11ax 6 GHz, IEEE 802.11ax/ac/n/a 5 GHz, IEEE 802.11ax/n/b/g 2.4 GHz
- WiFi Speeds: 4804 Mbps (6 GHz) + 4804 Mbps (5 GHz-1) + 4804 Mbps (5 GHz-2) + 1148 Mbps (2.4 GHz)<sup>†</sup>
- WiFi Range: 8× Dual-Band Antennas, Beamforming, High-Power FEM, 4T4R
- WiFi Capacity: Quad-Band, 4×4 MU-MIMO, OFDMA, Airtime Fairness, DFS, 16 Streams
- Working Modes: Router Mode, Access Point Mode

## Hardware

- Processor: 2.0 GHz Quad-Core CPU
- Ethernet Ports: 1× 10 Gbps RJ45/SFP+ Combo WAN/LAN Port, 1× 10 Gbps WAN/LAN Port, 1× 2.5 Gbps WAN/LAN Port, 4× 1 Gbps LAN Ports
- USB Support: 1× USB 3.0 Port
- Buttons: Wi-Fi On/Off Button, Power On/Off Button, LED On/Off Button, WPS Button, Reset Button
- Power: 12 V/5 A



## 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: 6 GHz Guest Network, 5GHz-1 Guest Network, 5GHz-2 Guest Network, 2.4 GHz Guest Network
- VPN Client: OpenVPN, PPTP, L2TP VPN Client
- VPN Server: OpenVPN, PPTP, L2TP VPN Server

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

# Specifications

## Physical

- Dimensions (W×D×H): 9.1 × 9.1 × 2.7 in (232 × 232 × 68 mm)
- Package Contents:
  - Wi-Fi Router Archer AXE300
  - 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°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-AXE300.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:
    - 11ax HE20 MCS0: -97dBm, 11ax HE20 MCS11: -66dBm
    - 11ax HE40 MCS0: -95dBm, 11ax HE40 MCS11: -64dBm
  - 5 GHz-1:
    - 11ax HE20 MCS0: -93dBm, 11ax HE20 MCS11: -62dBm
    - 11ax HE40 MCS0: -91dBm, 11ax HE40 MCS11: -60dBm
    - 11ax HE80 MCS0: -88dBm, 11ax HE80 MCS11: -57dBm
    - 11ax HE160 MCS0: -82dBm, 11ax HE160 MCS11: -52dBm
  - 5 GHz-2:
    - 11ax HE20 MCS0: -95dBm, 11ax HE20 MCS11: -64dBm
    - 11ax HE40 MCS0: -93dBm, 11ax HE40 MCS11: -62dBm
    - 11ax HE80 MCS0: -90dBm, 11ax HE80 MCS11: -59dBm
    - 11ax HE160 MCS0: -84dBm, 11ax HE160 MCS11: -53dBm
  - 6 GHz:
    - 11ax HE20 MCS0: -95dBm, 11ax HE20 MCS11: -65dBm
    - 11ax HE40 MCS0: -93dBm, 11ax HE40 MCS11: -62dBm
    - 11ax HE80 MCS0: -90dBm, 11ax HE80 MCS11: -58dBm
    - 11ax HE160 MCS0: -84dBm, 11ax HE160 MCS11: -53dBm

<sup>1</sup>Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage, and quantity of 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.

<sup>2</sup>Use of Wi-Fi 6 (802.11ax), Wi-Fi 6E, and features including OFDMA, MU-MIMO, 1024-QAM, and HE160 require clients to also support the corresponding features. Seven 160MHz channels may not be all available in the 6 GHz band in some regions/countries due to regulatory restrictions or product design considerations.

<sup>3</sup>10 Gbps internet speeds require compatible service plans and equipment. 10 Gbps and 2.5 Gbps ports cannot be concurrently configured as WAN ports.

<sup>4</sup>Saving clients' battery power requires clients to also support the 802.11ax Wi-Fi standard. Actual power reduction may vary as a result of network conditions, client limitations, and environmental factors.

<sup>5</sup>HomeShield includes the Free Basic Plan. Fees apply for the Pro Plan. Visit [tp-link.com/homeshield](http://tp-link.com/homeshield) for more information

<sup>6</sup>Use of WPA3 requires clients to also support the corresponding feature.

<sup>7</sup>This router may not support all the mandatory features as ratified in Draft 3.0 of the IEEE 802.11AX specification.

<sup>8</sup>Further software upgrades for feature availability may be required.

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