AX1500 Next-Gen Wi-Fi 6 Router

Next-Gen Wi-Fi For All

Archer AX12

Faster Speeds with Wi-Fi 6
Next-Gen faster Wi-Fi speeds up to 1.5 Gbps†

Ultra-Low Latency
Enjoy smooth streaming and gaming with lower latency by Wi-Fi 6‡

Connect More, Stay Fast
More simultaneous connections and higher average throughput with OFDMA‡

Full Gigabit Ports
Take full advantages of broad-band speeds up to 1 Gbps△

Highlights

Wi-Fi 6 | 802.11 AX Future-Proof Your Wi-Fi

Improved Efficiency, More Connections

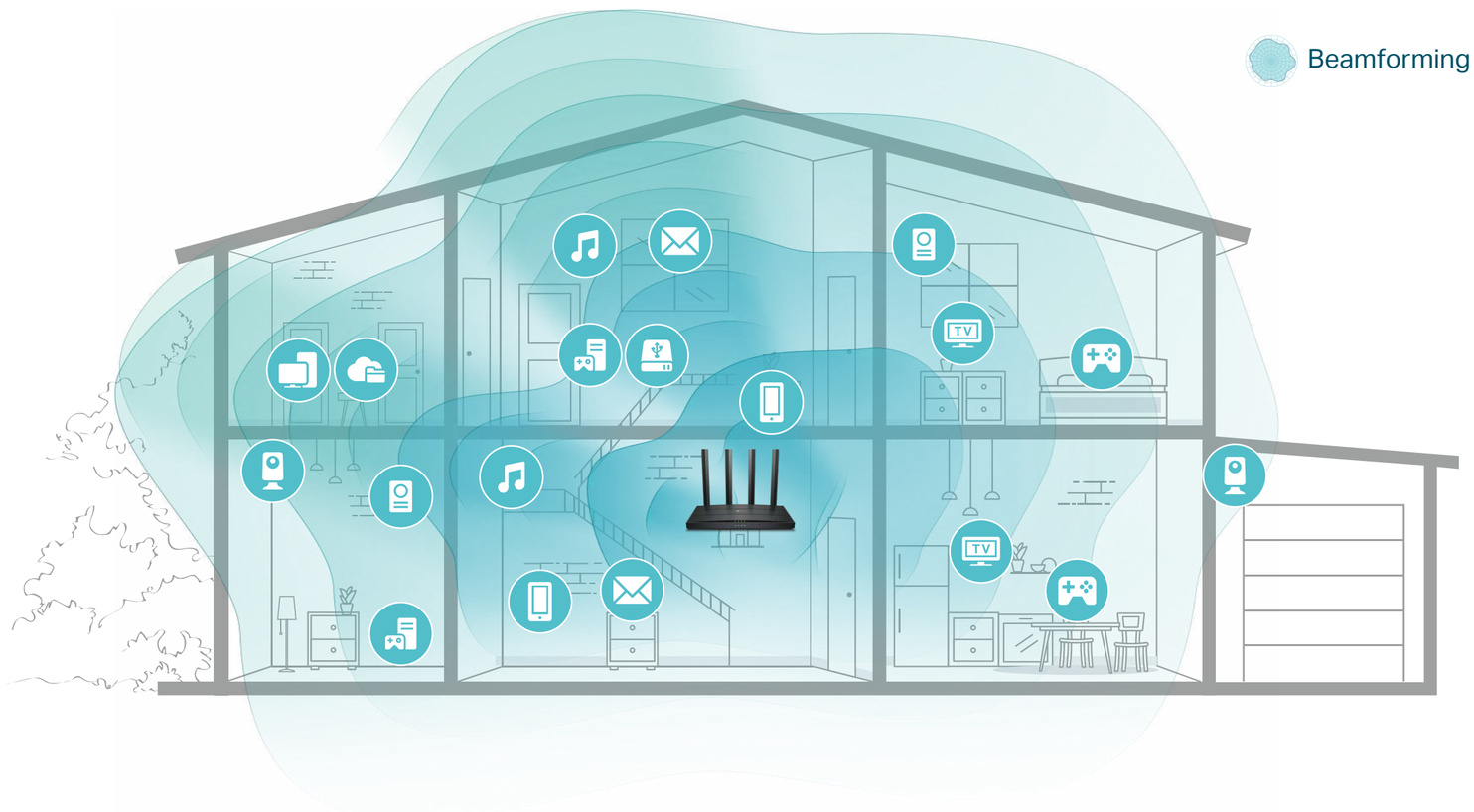
Add more Wi-Fi devices to your network without dragging the performance, as Archer AX12 with Wi-Fi 6 builds a more efficient network that increases the average throughput by 4 times and serves more devices.[§]

Immersive Gaming, Smooth Streaming

Enjoy stable network for online gaming and live streams with flawless video and clear audio. OFDMA allows clients to transmit both on uplink and downlink using one band at one time, which cut the latency and ensures a responsive network.[‡]

Broader Coverage, Larger Capacity

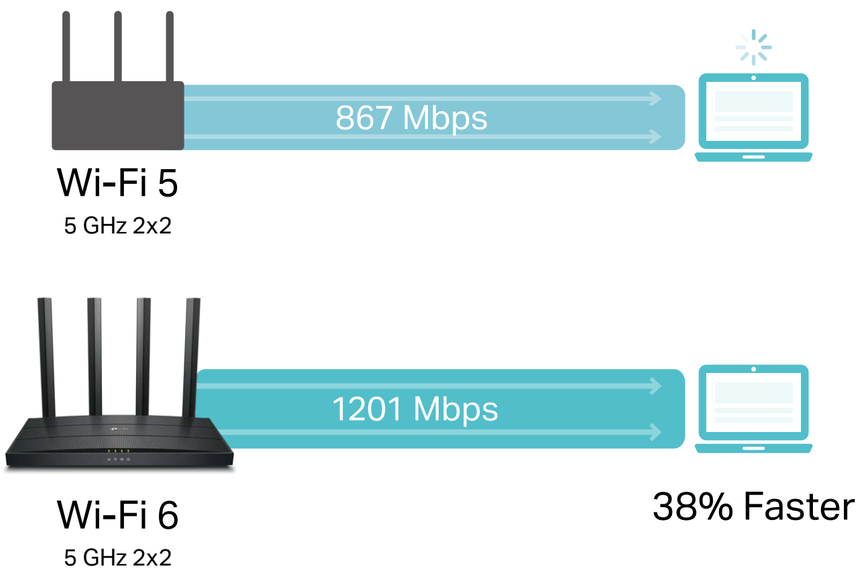
With clearer and stronger signal generated with Wi-Fi 6 and Beamforming technology, Archer AX12 delivers data to devices far away by focusing less-interfered wireless signal towards them.



Highlights

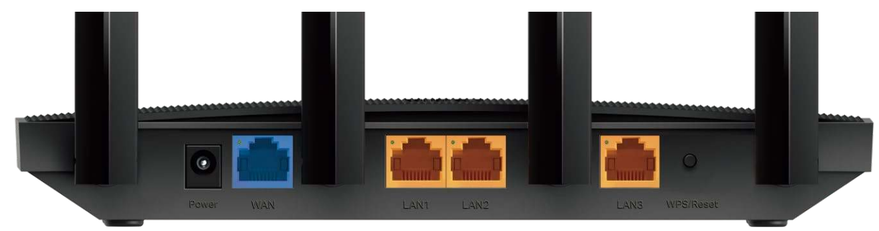
Faster Wireless Connection

4-Streams Wi-Fi offers connection at over 1 Gbps speed for newer mobile devices, reducing wait time by 30% while downloading huge files including 4K movies and games.*



Gigabit Internet Access

Take full advantage of your broadband with speed up to 1 Gbps with a Gigabit WAN port. Plug your PCs, smart TVs and game consoles into one of the three Gigabit LAN ports for fast and reliable wired connections.△

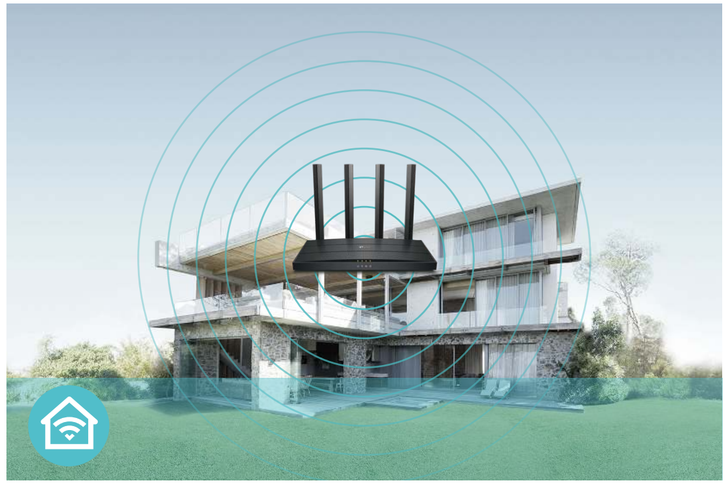


Gigabit Ports

Features

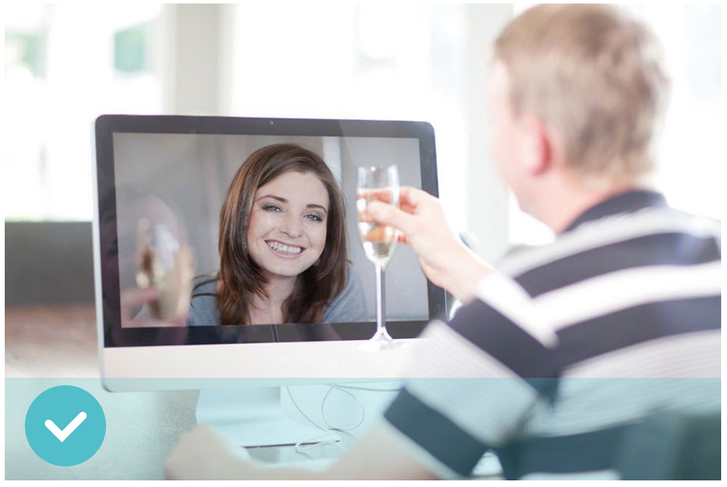
Speed

- AX Tech – 802.11ax (also known as Wi-Fi 6) features advanced technologies including OFDMA and 1024QAM, drastically increasing the speed and efficiency of the entire network
- Ultimate Wireless Speed – 300 Mbps on 2.4 GHz (802.11n) + 1201 Mbps on 5 GHz (802.11ax)
- Gigabit Internet Access – Take full advantages of broadband speeds up to 1 Gbps[Δ]



Wi-Fi Range

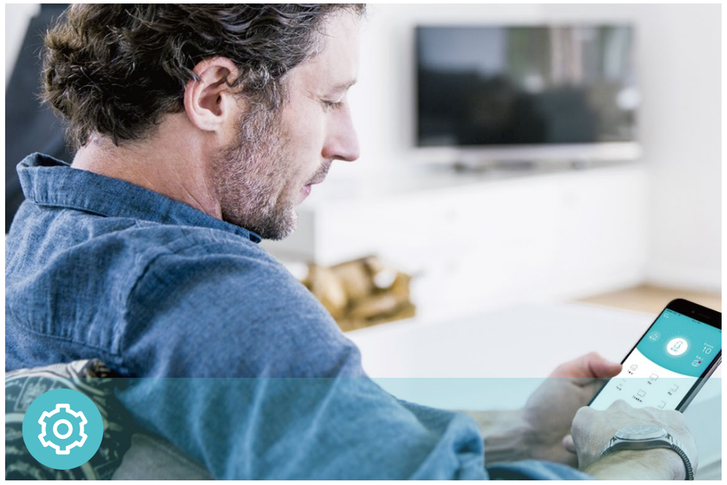
- Ultimate Range Wi-Fi – Four external antennas deliver a Wi-Fi signal to every corner of your home, making all of your connections more efficient and stable
- Beamforming Technology – Concentrates Wi-Fi signals towards individual devices to ensure stronger connections



Reliability

- VPN Support – Safely reach files in local NAS, wherever you are
- Airtime Fairness – Equally divides network time between new devices, such as your gaming rig and older devices to improve your overall Wi-Fi performance and reliability
- Quality of Service – Prioritizes devices for optimum performance when needed

Features



Ease of Use

- Intuitive Web UI – Ensures quick and simple Installation without hassle
- Fast Encryption – One-touch WPA wireless security encryption with the WPS button
- Hassle-free Management with Tether App – Network management is made easy with the TP-Link Tether App, available on any Android and iOS device

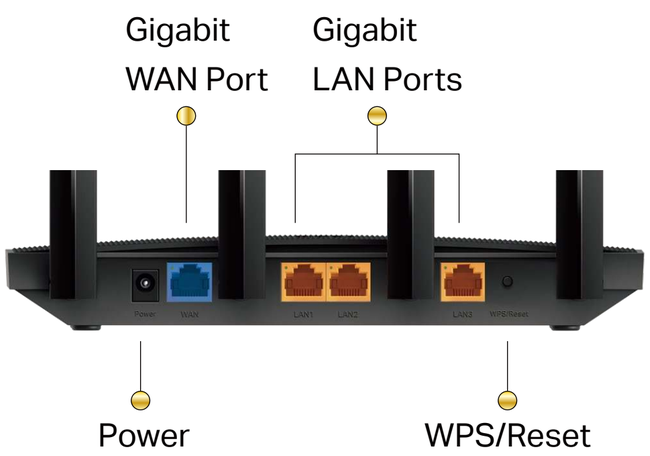
Security

- Guest Network – Provides separate access for guests while securing the home network
- Access Control – Establishes a whitelist or blacklist to allow or restrict certain devices to access the internet
- Parental Controls – Manage when and how devices can access the internet
- WPA3 Security – The latest Wi-Fi security protocol, WPA3, brings new capabilities to improve cybersecurity. More secure encryption in Wi-Fi password safety and enhanced protection against brute-force attacks combine to safeguard your home Wi-Fi.‡

Specifications

Hardware

- Ethernet Ports: 1× Gigabit WAN Port + 3× Gigabit LAN Ports
- Buttons: WPS/Reset Button
- Antennas: Four External Antennas
- External Power Supply: 12V/1A
- Dimensions (W x D x H): 8.5 × 4.6 × 1.3 in(215 × 117 × 32mm)



Wireless

- Wireless: 1201 Mbps (5 GHz, 11ax) + 300 Mbps (2.4 GHz, 11n), compatible with 11a/b/g/n/ac/ax Wi-Fi standards
- Frequency: 2.4 GHz and 5 GHz
- Transmit Power:

  CE: <20dBm(2.4 GHz), <23dBm(5.15 GHz~5.25 GHz)

  FCC:<30dBm(2.4 GHz & 5.15 GHz~5.825 GHz)
- Reception Sensitivity:

  5 GHz:

  11a 6Mbps:-95dBm, 11a 54Mbps:-79dBm

  11ac VHT20_MCS0:-96dBm, 11ac VHT20_MCS8:-66dBm

  11ac VHT40_MCS0:-94dBm, 11ac VHT40_MCS9:-63dBm

  11ac VHT80_MCS0:-91dBm, 11ac VHT80_MCS9:-60dBm

  11ax HE20_MCS0:-95dBm, 11ax HE20_MCS11:-66dBm

  11ax HE40_MCS0:-92dBm, 11ax HE40_MCS11:-65dBm

  11ax HE80_MCS0:-89dBm, 11ax HE80_MCS11:-62dBm

  2.4 GHz:

  11g 6Mbps: -96 54Mbps: -80

  HT20-MCS0: -97 MCS7: -78

  HT40-MCS0: -94 MCS7: -75
- Wireless Function: Enable/Disable Wireless Radio, WMM
- Wireless Security: WPA2-PSK, WPA2-PSK/WPA-PSK, WPA3-Personal, WPA3-Personal/WPA2-PSK, WPA2-Enterprise, WPA/WPA2-Enterprise encryptions

Specifications

Software

- Quality of Service: Device Prioritisation
- WAN Type: Dynamic IP/Static IP/PPPoE/PPTP(Dual Access)/L2TP(Dual Access)
- Management: Access Control, Local Management, Remote Management
- DHCP: Server, DHCP Client List, Address Reservation
- Port Forwarding: Port Forwarding, Port Triggering, UPnP, DMZ
- Dynamic DNS: DynDns, NO-IP, TP-Link
- Access Control: Parental Controls, Local Management Control, Host List, White List, Black List
- Firewall Security: SPI Firewall, IP and MAC Address Binding
- Protocols: IPv4, IPv6
- Guest Network: 2.4 GHz Guest Network, 5 GHz Guest Network

Others

- Certification:

  CE, FCC, RoHS
- System Requirements:

  Microsoft Windows 98SE/NT/2000/XP/Vista™/7/8/8.1/10/11, MAC OS, NetWare, UNIX or Linux

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

  Cable or DSL Modem

  Subscription with an internet service provider (for internet access)
- Environment:

  Operating Temperature: 0°C~40°C (32°F ~104°F)

  Storage Temperature: -40°C~60°C (-40°F ~140°F)

  Operating Humidity: 10%~90% non-condensing

  Storage Humidity: 5%~90% non-condensing
- Package Contents

  Wireless Router Archer AX12

  Power Adapter

  RJ45 Ethernet Cable

  Quick Installation Guide

For more information, please visit

https://www.tp-link.com/products/details/?model=Archer+AX12_V1

or scan the QR code left

Attention: This device may only be used indoors in all EU member states, EFTA countries and Northern Ireland.
Attention: This device may only be used indoors in Great Britain.
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†Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput, wireless coverage and number 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.
‡Use of 802.11ax (Wi-Fi 6), and features including WPA3, OFDMA and 1024-QAM requires clients to also support corresponding features.
§ The 802.11ax white paper defines standardized modifications to both the IEEE 802.11 physical layers (PHY) and the IEEE 802.11 Medium Access Control (MAC) layer as enabling at least one mode of operation capable of supporting improvement of at least four times the average throughput per station (measured at the MAC data service access point) in a dense deployment scenario.
△1,000 Mbps internet speeds require compatible service plans and equipment. 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.
*30% less download time is a result of the 38% improvement in speed from Wi-Fi 5 5 GHz 2×2 to Wi-Fi 6 5 GHz 2×2.
**This router may not support all the mandatory features as ratified in Draft 3.0 of IEEE 802.11ax specification.
***Further software upgrades for feature availability may be required.