tp-link

EasyMesh

Wi-Fi 6

AX1800 Dual-Band Wi-Fi 6 Router

Explore the New Era of Wi-Fi

Archer AX1800

Faster AX Wi-Fi
Speed up to 1.8 Gbps†

Connect More, Stay Fast
OFDMA Supported

Refined Security
WPA3 Supported*

Full
Gigabit Ports

Highlights

Wi-Fi 6 Upgrade Everything with Wi-Fi 6

The Archer AX1800, based on the next generation 802.11ax Wi-Fi technology, takes your Wi-Fi to the next level while being backwards compatible with 802.11a/b/g/n/ac Wi-Fi standards.

Next-Gen Wi-Fi Speeds

Enjoy a faster and more stable network for streaming and gaming with lower latency and speeds up to 1.8 Gbps using newer mobile devices.†

Smooth Streaming

OFDMA allows clients to transmit both on uplink and downlink sharing one band at one time, which cuts the latency and jittering.‡

Refined Security

The latest Wi-Fi security protocol,
WPA3, keeps you safe by enhancing protection against brute-force attacks and reinforcing Wi-Fi password safety.*

Backwards Compatible

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

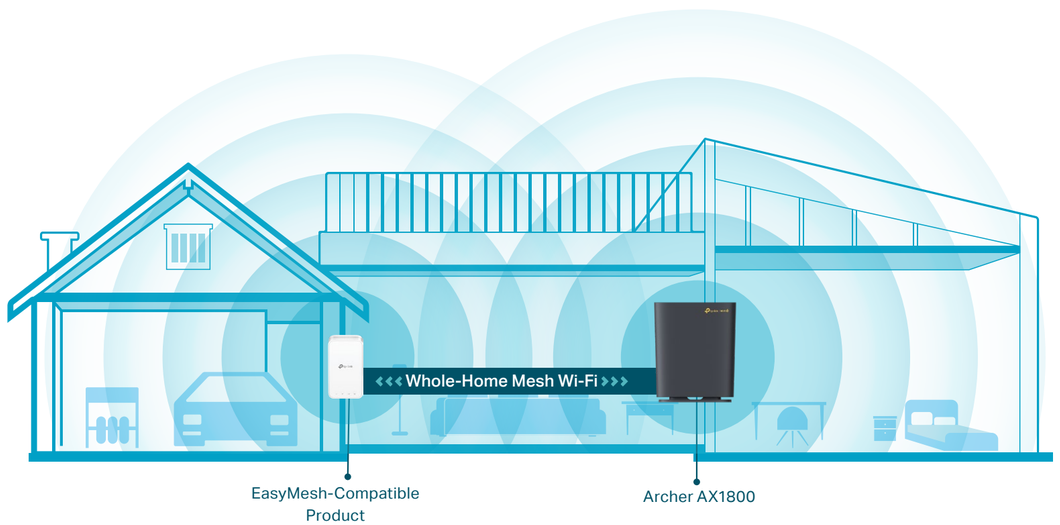
4× Larger Capacity for Non-Stop Entertainment§

OFDMA and 4-Stream technology greatly improve network efficiency and capacity to connect more devices simultaneously, satisfying your diverse networking needs ranging from extremely low traffic to highly bandwidth intensive.

Highlights

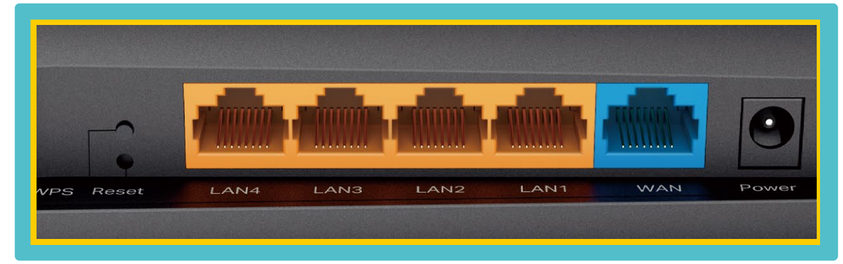
Convenient Mesh Networking

Mesh networking creates smooth, fast, stable roaming. Archer AX1800 can build an EasyMesh network with extenders that use EasyMesh technology. It also works with other TP-Link OneMesh products to create a TP-Link OneMesh network. Eliminate Wi-Fi dead zones, expand your network, and fill your entire home with high-speed Wi-Fi.



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 four Gigabit LAN ports for fast and reliable wired connections.[△]

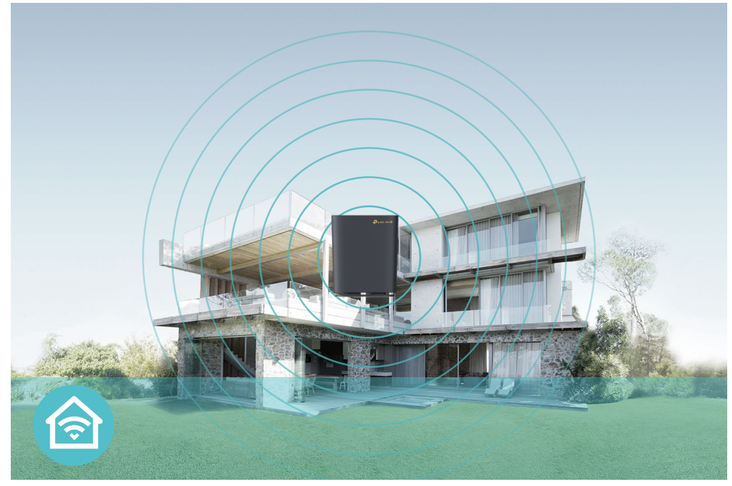


Gigabit Ports

Features

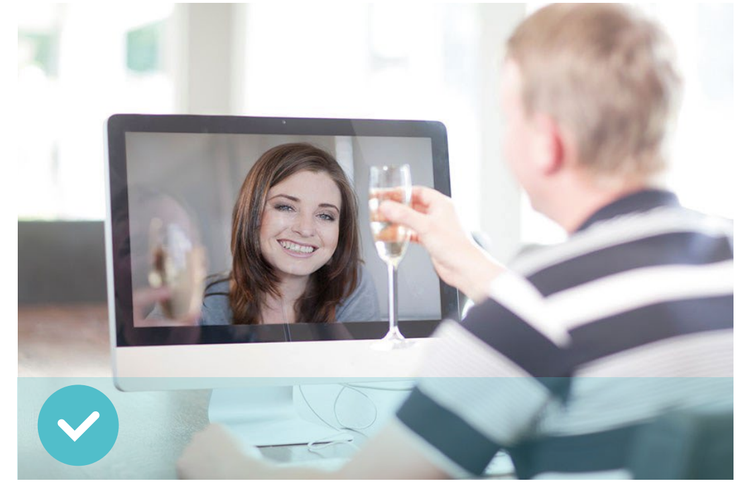
Speed

- Wi-Fi 6 Technology – The new era of Wi-Fi with speeds up to 1.8 Gbps[†]
- OFDMA – Provides 4× greater capacity for more simultaneous connections.[§]
- Next-Gen Wireless Speed – 574 Mbps on 2.4 GHz (802.11ax) + 1201 Mbps on 5 GHz (802.11ax)[†]



Wi-Fi Range

- Ultimate Range Wi-Fi – Four high-gain 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

- Secure VPN Access – Connects to a private network with a safe and secure OpenVPN and PPTP VPN connection
- Airtime Fairness – Balances bandwidth of connected devices to improve overall throughput and efficiency
- Smart Connect – Intelligently switches each device's connection to the optimum available Wi-Fi band

Features

Ease of Use

- 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
- Hassle-free Management with Tether App – Network management is made easy with the TP-Link Tether app, available on any Android and iOS device

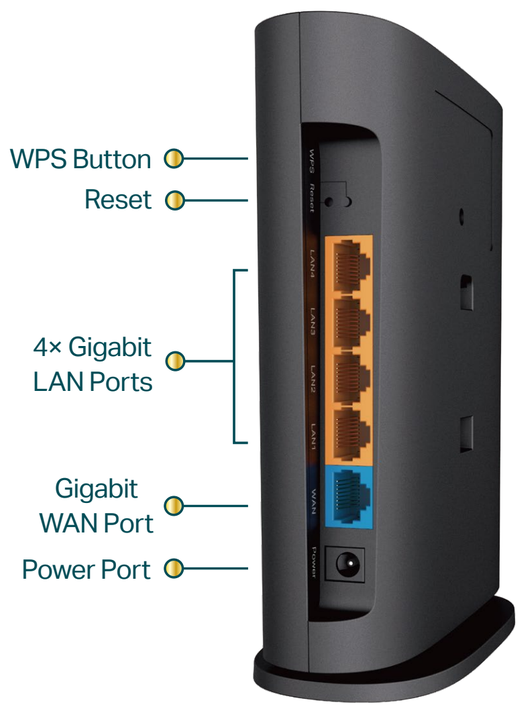
Security

- Parental Controls – Manage when and how connected devices can access the internet
- Guest Network – Provides separate access for guests to secure the home network
- Access Control – Establishes a whitelist or blacklist to allow or restrict certain devices to access the internet
- Encryptions for Secure Network – WPA/WPA2, WPA2/WPA3 encryptions provide active protection against security threats

Specifications

Wireless

- **Standards:** IEEE 802.11ax/ac/n/a 5 GHz, IEEE 802.11ax/n/b/g 2.4 GHz
- **WiFi Speeds:** 5 GHz: 1201 Mbps (802.11ax), 2.4 GHz: 574 Mbps (802.11ax)
- **WiFi Range:** 4 High-Performance Antennas, Beamforming
- **WiFi Capacity:** Dual-Band, OFDMA, Airtime Fairness, 4 Streams
- **Working Modes:** Router Mode, Access Point Mode



Hardware

- **Processor:** Powerful CPU
- **Ethernet Ports:** 1× Gigabit WAN Port, 4× Gigabit LAN Ports
- **Buttons:** WPS Button, Reset Button, Power Port
- **Power:** 12 V/1 A

Security

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

Software

- **Protocols:** IPv4, IPv6
- **EasyMesh:** Supported
- **Parental Controls:** URL Filtering, Time 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): 5.9 × 5.1 × 1.6 in (150 × 130 × 40.3 mm)
- Package Contents:

  Wi-Fi Router Archer AX1800

  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: JPA, JRF, VCCI, RoHS
- Environment:

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

  Operating Humidity: 10%~90% non-condensing

For more information, please visit

https://www.tp-link.com/products/details/?model=Archer+AX1800

or scan the QR code left

Test Data

- WiFi Transmission Power:

  JP: ≤21dBm (2.4 GHz), ≤22dBm (5 GHz)
- WiFi Reception Sensitivity:

  2.4GHz:

  11g 6Mbps: -96 dBm, 11a 54Mbps: -75 dBm, 11ac VHT20_MCS0: -95 dBm,

  11ac VHT20_MCS8: -72 dBm, 11ac VHT40_MCS0: -92 dBm, 11ac VHT40_MCS9: -67 dBm,

  11ax HE20_MCS0: -95 dBm, 11ax HE20_MCS11: -65 dBm, 11ax HE40_MCS0: -92 dBm,

  11ax HE40_MCS11: -62 dBm

  5GHz:

  11a 6Mbps: -94 dBm, 11a 54Mbps: -73 dBm, 11ac VHT20_MCS0: -93 dBm,

  11ac VHT20_MCS8: -69 dBm, 11ac VHT40_MCS0: -90 dBm, 11ac VHT40_MCS9: -65 dBm,

  11ac VHT80_MCS0: -86 dBm, 11ac VHT40_MCS9: -61 dBm, 11ax HE20_MCS0: -93 dBm,

  11ax HE20_MCS11: -63 dBm, 11ax HE40_MCS0: -91 dBm, 11ax HE40_MCS11: -60 dBm,

  11ax HE80_MCS0: -87 dBm, 11ax HE80_MCS11: -57 dBm

[†]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 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.
*Use of WPA3 requires clients to also support WPA3.
**This router may not support all the mandatory features as ratified in the IEEE 802.11AX specification.
***Further software upgrades for feature availability may be required.
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