tp-link

Wi-Fi 6 OneMesh™

AX1800 Dual Band Wi-Fi 6 Router

Explore the New Era of Wi-Fi

Archer AX21

Faster AX Wi-Fi
Speed up to 1.8 Gbps†

Connect More, Stay Fast
OFDMA Supported

Refined Security
WPA3 Supported*

Full Gigabit Ports

Highlights

Upgrade Everything with Wi-Fi 6

The Archer AX21, 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.[†]

Save Clients' Power

Target Wake Time helps mobile devices, especially IoT devices, consume less power during data transmission cycles to prolong battery life.[‡]

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.[*]

Boost Coverage for Non-stop Entertainment

Beamforming transmits Wi-Fi signals to every corner of your home and concentrate signals strength towards connected devices. Wi-Fi 6 adjusts the bandwidth of sub-channels, making signals clearer and ensuring larger coverage.[†]

Highlights

Flexible Whole-Home Wi-Fi

Four high-performance antennas and Beamforming deliver broad coverage. Furthermore, Archer AX21 supports OneMesh™ to form seamless whole-home coverage, preventing drops and lag when moving between signals.

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.△
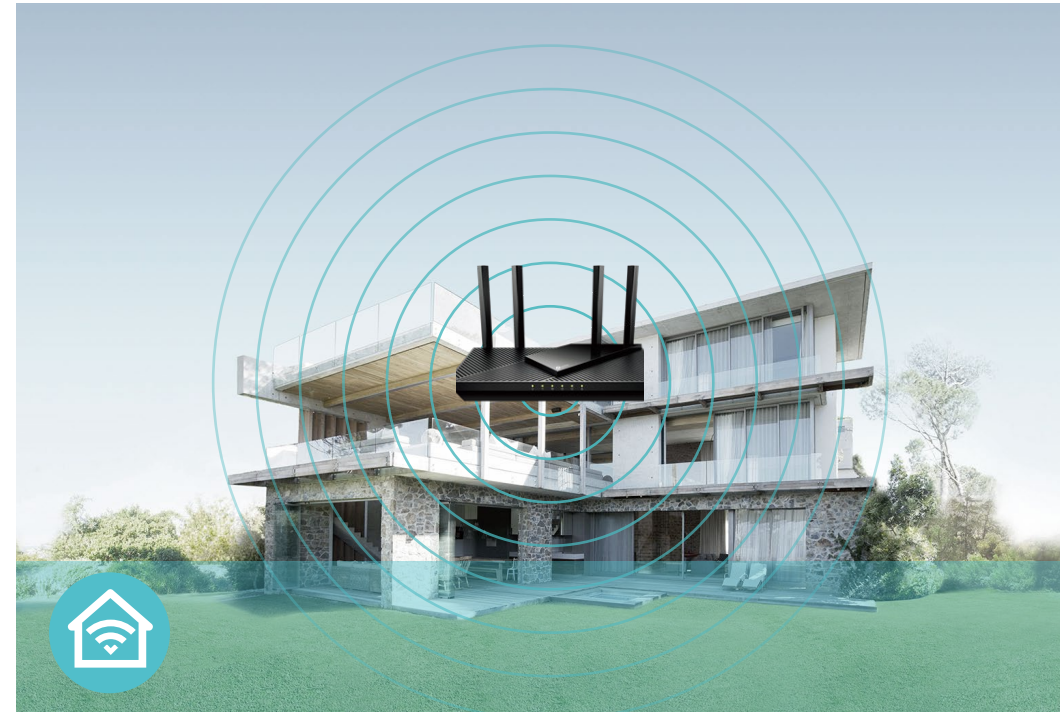

Whole-Home Mesh Wi-Fi

LAN1   LAN2   LAN3   LAN4   WAN
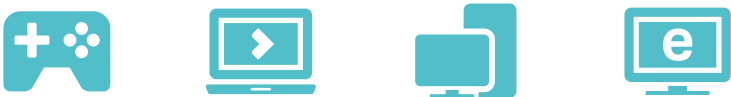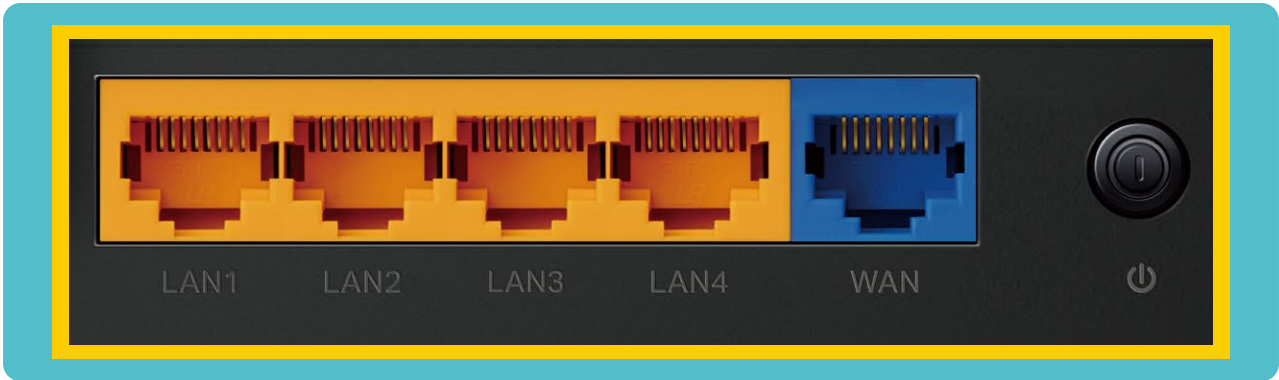
Gigabit Ports

Features

Speed

· Wi-Fi 6 Technology – The new era of Wi-Fi with speeds up to 1.8 Gbps[†]

· 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
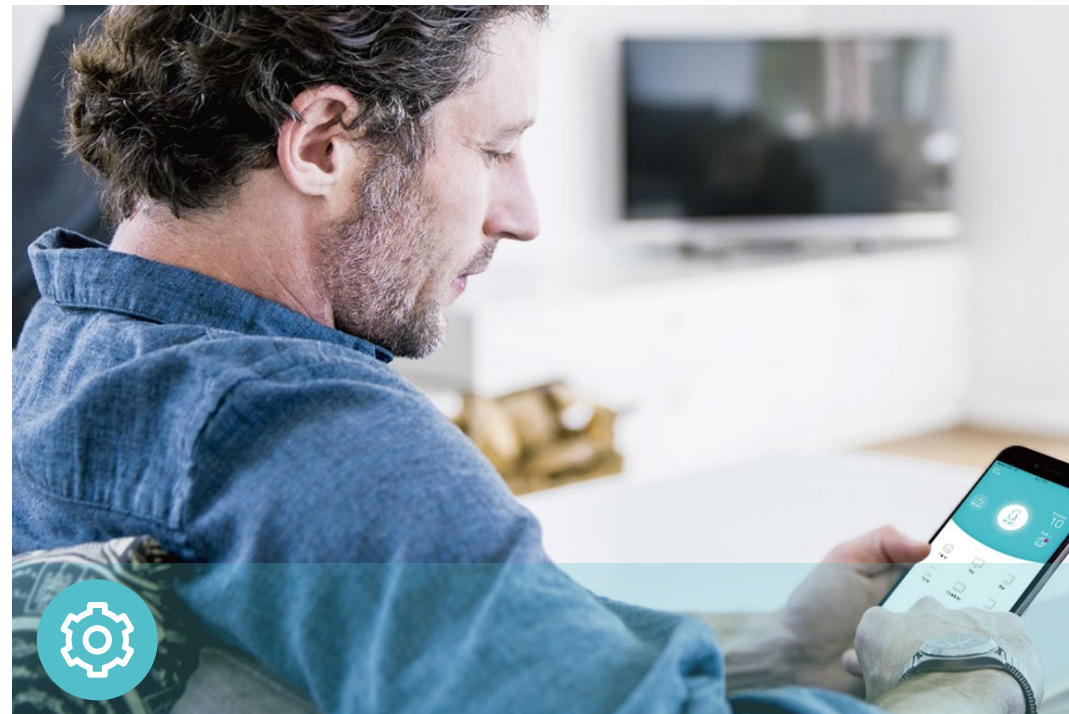
Ease of Use

· **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

· **Easy On/Off** – Turn on/off wireless radio using the Wi-Fi button.

· **Power On/Off** – Conveniently power on or off your router as required

· **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
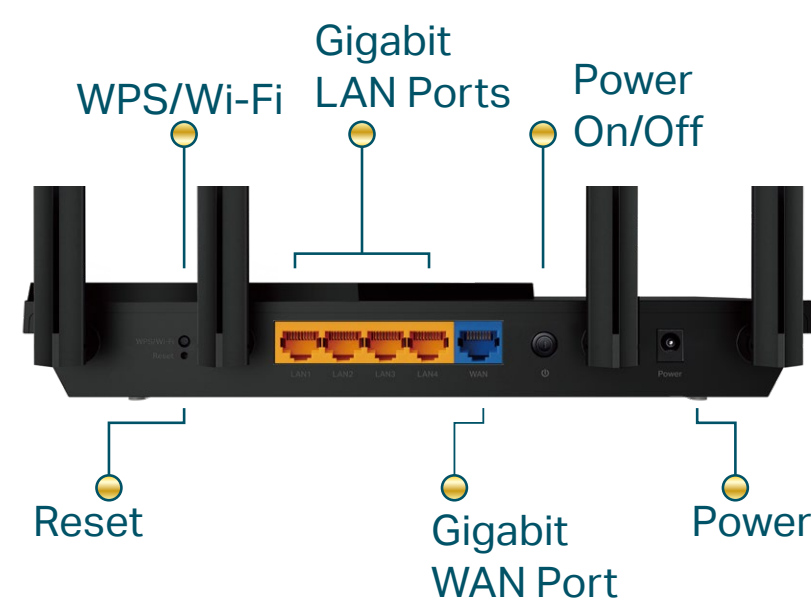
Specifications

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, Airtime Fairness, 4 Streams
- Working Modes: Router Mode, Access Point Mode

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

Hardware

- Ethernet Ports: 1× Gigabit WAN Port, 4× Gigabit LAN Ports
- Buttons: WPS/Wi-Fi Button, Reset Button, Power On/Off Button
- Power: 12 V/1.5 A

Software

- Protocols: IPv4, IPv6
- OneMesh: 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

WPS/Wi-Fi

Gigabit
LAN Ports

Power
On/Off

Reset

Gigabit
WAN Port

Power

Specifications

Physical

· **Dimensions (W×D×H):** 10.3 × 5.3 × 1.6 in (261.1 × 134.5 × 41 mm)

· **Package Contents:**

Wi-Fi Router Archer AX21

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, CE, RoHS

· **Environment:**

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

Operating Humidity: 10%~90% non-condensing

Test Data

· **WiFi Transmission Power:**

FCC: <30 dBm (2.4GHz & 5.15GHz~5.25GHz & 5.725GHz~5.825GHz)

· **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: -96 dBm, 11a 54Mbps: -75 dBm, 11ac VHT20_MCS0: -95 dBm,

11ac VHT20_MCS8: -71 dBm, 11ac VHT40_MCS0: -92 dBm, 11ac VHT40_MCS9: -66 dBm,

11ac VHT80_MCS0: -89 dBm, 11ac VHT40_MCS9: -62 dBm, 11ax HE20_MCS0: -95 dBm,

11ax HE20_MCS11: -64 dBm, 11ax HE40_MCS0: -92 dBm, 11ax HE40_MCS11: -60 dBm,

11ax HE80_MCS0: -89 dBm, 11ax HE80_MCS11: -59 dBm

For more information, please visit

https://www.tp-link.com/products/details/?model=Archer+AX21_V4.6

or scan the QR code left

Highlights

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.*

WPA3

Smart Connect

Archer AX21 automatically assigns your devices to the best available band according to the Wi-Fi environment, balancing the network load to give each device its optimum connection.

SSID 1
2.4 GHz

SSID 2
5 GHz

4k

Single SSID

√ **Archer AX21**