

User Manual

TP-Link Archer AX55 WiFi 6 Router

1.

Welcome to your new Archer AX55 router! This device is designed to deliver high-speed WiFi 6 (802.11ax) connectivity, improved coverage, strong security and ease of use for typical home or small-office networks. [TP-Link+2BroadbandNow+2](#)

This manual will guide you through everything from unboxing and setup to advanced features, maintenance and troubleshooting.

Who this manual is for: General users – no prior network experience required.

What you'll learn: How to install, configure, use and maintain your router to get the best performance.

Safety & compliance notes:

- Use only the supplied power adapter (or a compatible one as specified) to avoid damage.
- Place router in a well-ventilated area; do not obstruct airflow from its vents.
- Avoid exposure to liquids or extreme humidity/temperature.
- Keep the router's firmware up to date to maintain security.
- This router meets relevant regulatory standards in the region (check local model version).

2. What's in the Box

When you open your Archer AX55 package, you should find:

- Archer AX55 Router unit.

- Power adapter (12 V = 2 A) appropriate for your region.
- RJ-45 Ethernet cable (typically Cat5e or Cat6) to connect to your modem/gateway.
- Quick Installation Guide (QIG) / sticker with default SSID/WiFi password (may be on the underside of the router).
- Any warranty or regulatory leaflet.

3. Device Overview

Physical layout

- Four external high-gain antennas for extended coverage.
- LEDs on front/top (or front) to indicate power, internet (WAN) status, 2.4GHz WiFi, 5GHz WiFi, LAN ports, USB.
- On back:
 - 1× Gigabit WAN port (connects to your modem)
 - 4× Gigabit LAN ports (for wired devices: PC, gaming console, smart TV)
 - 1× USB 3.0 port (for sharing media or storage across the network)
 - Buttons: Power On/Off, Reset, WPS/WiFi.
- Technical highlights:
 - Supports WiFi 6 (802.11ax) dual-band: up to ~2402 Mbps on 5GHz + ~574 Mbps on 2.4GHz (AX3000 class) OFDMA, MU-MIMO, Beamforming and high-gain antennas for better

multi-device performance and coverage.

- Supports advanced security (WPA3) and TP-Link HomeShield features.

4. Installation & Setup

Step-by-step

1. Choose a good location:

- Central in your home for best coverage.
- Elevated shelf or open space; avoid enclosed cabinets or behind large metal objects.
- Keep away from microwaves, cordless phones, thick concrete walls if possible.

2. Connect the hardware:

- Unplug your modem/router (if replacing).
- Connect the Archer AX55's WAN port to your modem using the Ethernet cable.
- Connect the power adapter to the Archer and plug into a power outlet.
- Power on the router (press Power button if applicable).
- Wait for the Internet/WAN LED to show a steady light indicating a connection.

3. Initial configuration:

- On your PC/phone, connect to the router's default WiFi network (SSID and password are printed on the router or QIG).

- Open a browser and navigate to the setup URL (typically tplinkwifi.net or the IP 192.168.0.1) as indicated in the quick guide.

- Follow the on-screen wizard: set your WiFi network names (SSID) and passwords for 2.4GHz/5GHz bands, set an admin password for the router.

- Alternatively, use the TP-Link Tether mobile app for iOS/Android to configure the router from your smartphone.

- If your ISP requires PPPoE, static IP, or other special settings, select "Internet Connection Type" accordingly and enter the details provided by your ISP.

4. Confirm connectivity:

- Connect your device (phone, laptop) and access the internet.
- Test wired device connection via one of the LAN ports.

5. Wireless Network Configuration

- **SSID & Password:** Change the default SSID (network name) and set a strong password to keep your network secure.
- **Bands:** The router supports both 2.4GHz (better range but slower speeds) and 5GHz (faster speeds but slightly less range). Use 5GHz for high-speed devices like streaming boxes or game consoles.

- **Guest network:** You may enable a guest network to allow visitors to connect to WiFi but limit access to your internal network.
- **Band steering / Smart Connect:** Some firmware allows combining both bands under one name; let the router steer devices to the optimal band.
- **Channel & width:** Leave default or set to Auto unless you're experiencing interference; 5GHz 160 MHz channel width is supported.

6. Security Features

- **Admin password:** Always change the default router admin password to something secure.
- **WiFi encryption:** Use WPA3 (if all your devices support it) or WPA2 at minimum. The router supports WPA3.
- **Firmware updates:** Regularly check for firmware updates via the router's interface and apply them; this fixes vulnerabilities and improves features.
- **TP-Link HomeShield:** Provides security scanning, parental controls, QoS prioritization, device access notifications. Some advanced features may require subscription.
- **Disable WPS if not needed:** While convenient, WPS can be a security risk for some networks.
- **Disable remote management unless you need it:** Limits attack surface.

7. Advanced Features

- **Quality of Service (QoS):** Prioritise certain devices (game console, work laptop) to get bandwidth ahead of others.
- **USB sharing:** Use the USB 3.0 port to connect a storage drive or printer, share files/media across your network or set up a media server.
- **OneMesh / EasyMesh support:** If you have weak WiFi zones, you can add compatible TP-Link OneMesh devices to extend your network seamlessly with a single SSID.
- **Port forwarding / DMZ:** For advanced uses (gaming server, remote access), you can forward ports via the router interface.
- **Access Point Mode:** You may configure the router to operate as an access point if you already have another main router.
- **VPN support:** Some models support VPN client/server modes—check firmware version and region if you plan to use this.

8. Maintenance & Management

- **Back up settings:** After you've configured everything, save a backup of the router settings so you can restore after a reset.
- **Monitor connected devices:** Regularly check the device list to detect unauthorized connections.
- **Reboot/reset:** If you experience issues, try rebooting the router (turn off, wait 10 seconds, turn on). If major issues persist, use the Reset

button (press ~10 s) to clear to factory defaults.

- **Cooling/ventilation:** Keep the router in a ventilated space; the AX55 includes a larger heatsink/venting design for performance.
- **Firmware version:** Check periodically and upgrade when available. Incorrect firmware for the wrong hardware version may cause issues.

9. Troubleshooting

Problem	Possible Cause	Solution
No internet access	WAN cable not connected / ISP issue	Check modem, router WAN port, contact ISP
WiFi too slow	Many devices / interference / distance	Move router, reduce obstacles, switch to 5GHz, enable QoS
Wireless disconnects frequently	Poor coverage / signal interference	Reposition router, enable OneMesh/extender, change wireless channel
CAN'T login to router web page	Wrong IP / wrong device	Use correct default (often 192.168.0.1), clear browser cache, try wired connection
USB storage not accessible	Formatting issue / firmware version	Use supported format (NTFS, exFAT, HFS+) per specs.

LED indicators: Refer to the Quick Installation Guide sticker or manual to

interpret colours/patterns.

Factory reset caution: All custom settings will be lost; after reset you must reconfigure WiFi SSID, password, admin password, etc.

10. FAQs

Q1. Does the router support WiFi 6E or 6GHz band?

No, the AX55 supports WiFi 6 dual-band (2.4GHz + 5GHz) but not the 6GHz band (WiFi 6E).

Q2. Can this router handle gigabit internet plans?

Yes, it supports AX3000 speeds and gigabit wired ports; for multi-gig (>1 Gbps) you might consider higher models.

Q3. What is OneMesh and do I need it?

OneMesh lets you extend your WiFi coverage seamlessly using compatible TP-Link extender or router devices. Use it if you have dead zones.

Q4. Is the HomeShield service free?

Some basic features are free; premium security/parental controls may require subscription.

Q5. How often should I update firmware?

Whenever a firmware notice appears in the router interface, or you're experiencing issues, maybe every few months. Make sure it's stable before updating.

11. Technical Support & Warranty

- Visit the TP-Link support site and enter your model and hardware version (found on the label underneath the router) to download manuals, firmware and find FAQs.
- Use the support contact in your region for warranty service, typically 1 year (or longer in some regions) from purchase, check the printed warranty card.

- Before contacting support, have the following ready: model number (Archer AX55), hardware version

(Vx.x), firmware version (shown in router interface), description of the issue

12. Glossary of Terms

- **SSID:** Service Set Identifier – the name of your WiFi network.
- **2.4GHz / 5GHz:** Frequency bands used by WiFi; 2.4GHz offers better range, 5GHz offers higher speeds.
- **WiFi 6 (802.11ax):** Latest major WiFi standard (as of this device) offering higher speeds, lower latency, better multi-device performance.
- **OFDMA:** Orthogonal Frequency-Division Multiple Access – allows the router to send data to multiple devices simultaneously.
- **MU-MIMO:** Multi-User Multiple Input Multiple Output – enables the router to communicate with multiple devices simultaneously.
- **Beamforming:** Technology to direct WiFi signal toward devices to improve strength and reliability.
- **WPA3:** WiFi Protected Access version 3 – the latest WiFi encryption protocol offering stronger security.
- **OneMesh/EasyMesh:** TP-Link's mesh networking solution that allows multiple devices to form a unified WiFi network.
- **Firmware:** Software that runs on the hardware device; updates fix bugs and add features.

everyday use. If you later decide to upgrade to more advanced settings or integrate mesh devices, this router provides a strong foundation.

Thank you for choosing the Archer AX55. With this manual, you should be able to get your WiFi network up and running smoothly, secure it, and maintain it for