



Manuals.plus /

- › [TP-Link](#) /
- › [TP-Link AC1750 OneMesh Wi-Fi Repeater/Router User Manual](#)

## TP-Link Wireless Router Archer A7

# TP-Link AC1750 OneMesh Wi-Fi Repeater/Router User Manual

Model: Archer A7

## 1. PRODUCT OVERVIEW

---

The TP-Link AC1750 OneMesh Wi-Fi Repeater/Router is a versatile networking device designed to provide high-speed internet connectivity and extend Wi-Fi coverage throughout your home. It operates on dual bands (2.4GHz and 5GHz) to deliver a combined speed of up to 1750 Mbps, making it suitable for 4K streaming and online gaming. Equipped with Gigabit LAN ports and external antennas, it ensures reliable wired connections and broad wireless coverage.



Image 1.1: Front view of the TP-Link AC1750 Archer A7 Router, showcasing its sleek black design and three external antennas.

Key features include:

- **OneMesh Compatibility:** Create a unified Wi-Fi network with other TP-Link OneMesh devices for seamless roaming.
- **Dual Band Wi-Fi:** Simultaneous 2.4GHz (450Mbps) and 5GHz (1300Mbps) bands for reduced buffering.
- **Gigabit Ports:** Four 10/100/1000Mbps LAN ports and one 10/100/1000Mbps WAN port for fast wired connections.
- **External Antennas:** Three external antennas provide extended Wi-Fi range.
- **USB 2.0 Port:** For shared storage or print server functionality.
- **TP-Link Tether App:** Easy setup and remote management via a mobile application.

## 2. SETUP GUIDE

---

### 2.1 Package Contents

Before you begin, ensure all items are present in the package:

- AC1750 Wireless Dual Band Router Archer A7
- Power Adapter

- RJ45 Ethernet Cable
- Quick Installation Guide

## 2.2 Hardware Connection

1. **Power Off:** Disconnect the power from your modem.
2. **Connect Router:** Connect the modem's Ethernet cable to the WAN port (usually blue) on your Archer A7 router.
3. **Power On:** Connect the power adapter to the router and plug it into a power outlet. Wait for the router to fully boot up (approximately 1-2 minutes).
4. **Connect Device:** Connect your computer or mobile device to the router. You can do this via Wi-Fi (using the SSID and password printed on the router's label) or via an Ethernet cable to one of the LAN ports (yellow) on the router.

## 2.3 Configuration via TP-Link Tether App

The easiest way to set up your router is using the TP-Link Tether app:

1. **Download App:** Download the TP-Link Tether app from the App Store (iOS) or Google Play (Android).
2. **Launch App:** Open the Tether app and log in with your TP-Link ID. If you don't have one, create one.
3. **Add Device:** Tap the '+' icon in the app and select 'Router' then 'Wireless Router'. Follow the on-screen instructions to select your Archer A7 model.
4. **Follow Prompts:** The app will guide you through the internet connection setup, Wi-Fi name (SSID), and password configuration.

## 2.4 Configuration via Web Browser

Alternatively, you can configure the router using a web browser:

1. **Access Web Interface:** Open a web browser on a device connected to the router. Type `http://tplinkwifi.net` or `http://192.168.0.1` into the address bar and press Enter.
2. **Login:** Create a new password for future logins.
3. **Quick Setup:** Follow the Quick Setup wizard to configure your internet connection and wireless settings.

# 3. OPERATING INSTRUCTIONS

---

## 3.1 Wi-Fi Network Management

The Archer A7 provides both 2.4GHz and 5GHz wireless networks. You can manage these networks through the Tether app or the web interface.

- **2.4GHz Band:** Ideal for basic internet use like browsing and email, offering wider coverage.
- **5GHz Band:** Suitable for high-bandwidth activities such as 4K streaming and online gaming, providing faster speeds over shorter distances.

## 3.2 OneMesh Functionality

OneMesh allows you to create a unified Wi-Fi network with a single Wi-Fi name (SSID) by pairing your Archer A7 router with TP-Link OneMesh range extenders. This eliminates Wi-Fi dead zones and ensures seamless roaming as you move around your home.

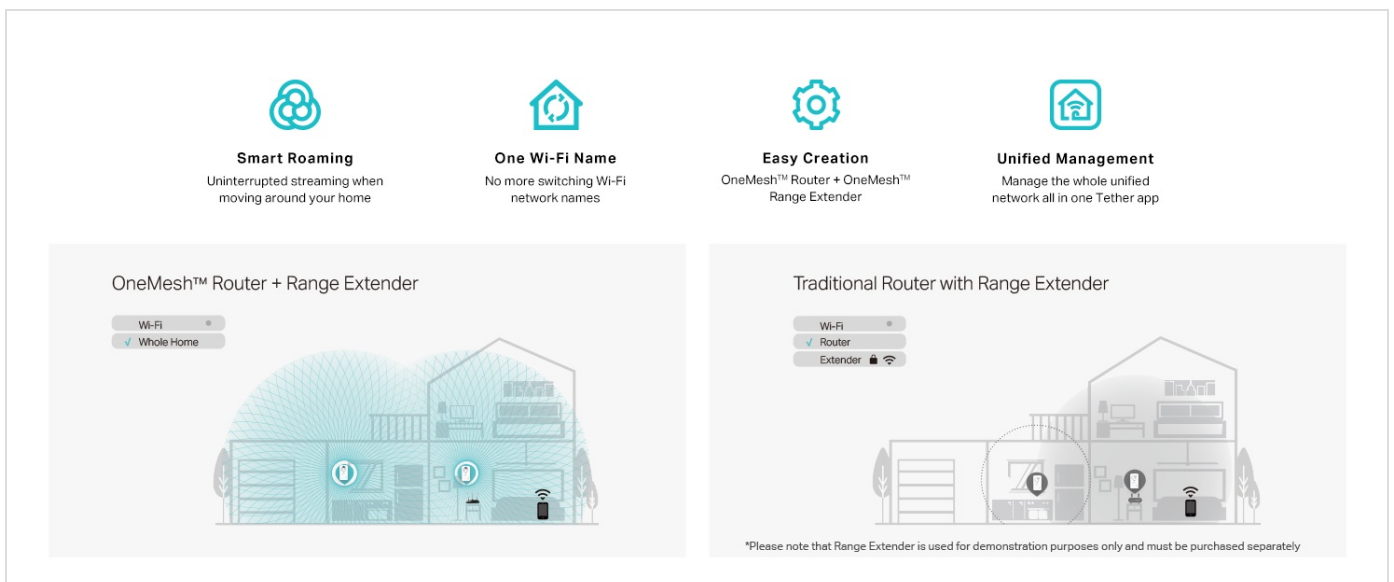


Image 3.1: Diagram illustrating the difference between a OneMesh network (seamless coverage) and a traditional router with range extender setup (separate networks).

To enable OneMesh, ensure your router's firmware is updated to the latest OneMesh version. You can then add compatible OneMesh range extenders to expand your network.

Video 3.1: An animated video explaining the benefits and functionality of TP-Link's OneMesh Wi-Fi Solution, demonstrating how it creates a unified network for seamless coverage.

### 3.3 USB Port Functionality

The USB 2.0 port on the Archer A7 can be used for:

- **Shared Storage:** Connect a USB storage device (e.g., flash drive, external hard drive) to share files across your network via FTP Server or Samba Server.
- **Print Server:** Connect a USB printer to make it accessible to all devices on your network.

**Important Note on USB Storage:** The Archer A7 supports FAT32 and NTFS file systems for connected USB drives. It *does not* support exFAT. FAT32 has a 4GB file size limit and an 8TB partition size limit, which may affect large file transfers or very large storage devices. NTFS is generally compatible with Windows systems, but Mac users may only be able to read, not write, to NTFS formatted drives without additional software.

### 3.4 Advanced Features

- **Quality of Service (QoS):** Prioritize network traffic for specific applications or devices to ensure smooth performance for critical tasks.
- **Parental Controls:** Manage and restrict internet access for children's devices.
- **Internet Security:** Built-in features to help protect your network from online threats.
- **Alexa Compatible:** Control certain router functions using voice commands with Amazon Alexa.
- **VPN Server/Client:** The router supports VPN capabilities, allowing secure remote access to your home network or secure browsing when connected to a VPN server.

## 4. MAINTENANCE

### 4.1 Firmware Updates

Regularly updating your router's firmware is crucial for optimal performance, security, and access to new features. You can check for and install updates via the router's web management interface or the TP-Link Tether app.

## 4.2 Physical Care

- Keep the router in a well-ventilated area to prevent overheating.
- Avoid placing the router near sources of interference (e.g., microwaves, cordless phones).
- Clean the router periodically with a soft, dry cloth. Do not use liquid cleaners.

## 4.3 Network Security

Ensure your Wi-Fi network is secured with a strong password (WPA2/WPA3 encryption recommended). Regularly review connected devices and enable guest networks for visitors to isolate them from your main network.

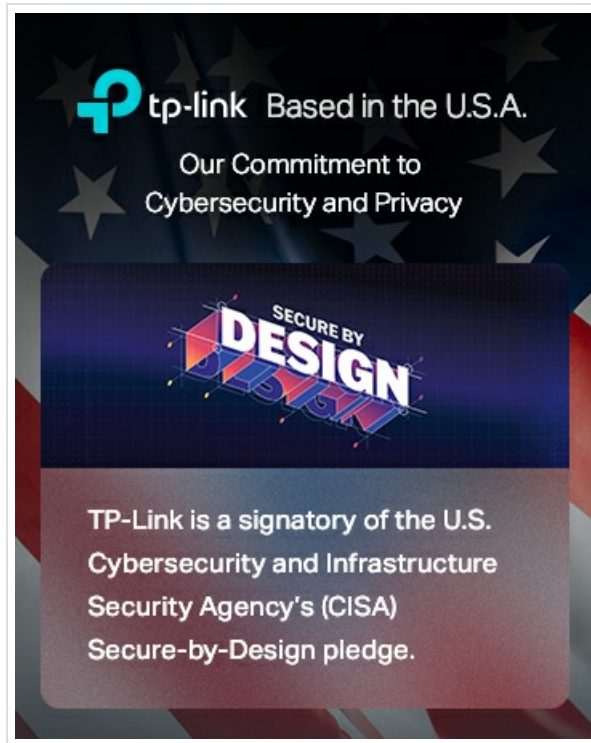


Image 4.1: TP-Link's commitment to cybersecurity and privacy, highlighting their 'Secure by Design' pledge.

## 5. TROUBLESHOOTING

---

If you encounter issues with your Archer A7 router, refer to the following common troubleshooting steps:

### 5.1 No Internet Connection

- **Check Cables:** Ensure all Ethernet cables are securely connected to the correct ports (WAN to modem, LAN to devices).
- **Restart Devices:** Power off your modem and router, wait 30 seconds, then power on the modem first, wait for it to fully boot, then power on the router.
- **Modem Status:** Check the indicator lights on your modem to ensure it has an active internet connection.
- **Router Lights:** Verify that the internet indicator light on the router is solid green.

### 5.2 Weak or Unstable Wi-Fi Signal

- **Router Placement:** Place the router in a central location, away from obstructions and electronic devices that may cause interference.
- **Antenna Orientation:** Adjust the external antennas for optimal signal strength.
- **Interference:** Identify and minimize sources of wireless interference (e.g., microwaves, cordless phones, Bluetooth devices).

- **OneMesh:** Consider adding a TP-Link OneMesh range extender to expand coverage in larger homes or areas with weak signals.

### 5.3 USB Drive Not Recognized or File Transfer Issues

- **File System:** Ensure the USB drive is formatted as FAT32 or NTFS. exFAT is not supported.
- **Power:** For external hard drives, ensure they have their own power supply if required.
- **Drive Capacity/File Size:** Be aware of FAT32 limitations (4GB max file size, 8TB max partition size).

For more detailed troubleshooting, please refer to the official Troubleshooting Guide (PDF) available on the product support page.

## 6. SPECIFICATIONS

Feature	Detail
Wireless Type	802.11 ac/n/a 5GHz, 802.11b/g/n 2.4GHz
Data Transfer Rate	1750 Mbps (450Mbps 2.4GHz, 1300Mbps 5GHz)
Frequency Band Class	Dual-Band
Number of USB 2.0 Ports	1
LAN Ports	4 x 10/100/1000Mbps Gigabit LAN Ports
WAN Port	1 x 10/100/1000Mbps Gigabit WAN Port
Antennas	3 External Antennas
Hardware Platform	Windows, Mac, Linux-based, iOS, Android
Operating System Compatibility	Microsoft Windows 98SE, NT, 2000, XP, Vista, Windows 7/8/8.1/10, MAC OS, NetWare, UNIX or Linux
Item Weight	14.9 ounces (approx. 422g)
Product Dimensions	9.59 x 6.32 x 1.29 inches (243.5 x 160.6 x 32.5 mm)
Color	Black
Voltage	120-240 Volts
Special Features	QoS, Alexa Compatible, USB Print Server, Internet Security, Parental Control

## 7. WARRANTY AND SUPPORT

### 7.1 Warranty Information

For detailed warranty information, please refer to the documentation included with your product or visit the official TP-Link website.

### 7.2 Customer Support

TP-Link provides customer support for product inquiries and technical assistance. You can typically find support contact information (phone, email, chat) on the official TP-Link support website.

Additional resources:

- Installation Manual (PDF)
- Instructions for Use (IFU) (PDF)
- User Manual (PDF)

### **7.3 Legal Disclaimer**

Please note the following legal disclaimer regarding product performance:

*Maximum wireless transmission rates are the physical rates derived from IEEE Standard 802.11 specifications. Range and coverage specifications along with the number of connected devices were defined according to test results under normal usage conditions. Actual wireless transmission rate, wireless coverage, and number of connected devices are not guaranteed, and will vary as a result of 1) environmental factors, including building materials, physical objects and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead and 3) client limitations, including rated performance, location, connection quality, and client condition. 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.*