

TP-Link Archer A20

TP-Link AC4000 Smart WiFi Router (Archer A20) Instruction Manual

Model: Archer A20 | Brand: TP-Link

1. INTRODUCTION

This instruction manual provides detailed guidance for setting up, operating, and maintaining your TP-Link AC4000 Smart WiFi Router, model Archer A20. This tri-band router is designed to deliver high-speed wireless connectivity, advanced security features, and robust performance for your home network.

The Archer A20 features MU-MIMO technology for simultaneous device connections, Beamforming and RangeBoost for extended Wi-Fi coverage, and a 1.8 GHz 64-bit CPU for efficient data processing. It also includes advanced security features like Parental Controls and Built-In Antivirus powered by TP-Link HomeCare.

2. PACKAGE CONTENTS

Before you begin, please verify that your package contains the following items:

- TP-Link AC4000 Smart WiFi Router (Archer A20)
- Power Supply Unit
- Ethernet Network Cable
- Quick Installation Guide (QIG)

3. SETUP GUIDE

3.1 Hardware Connection

1. **Power off your modem:** Disconnect the power from your existing modem. If your modem has a backup battery, remove it.

Image: A hand disconnecting the power cable from a modem, with text overlay "Power off the modem".

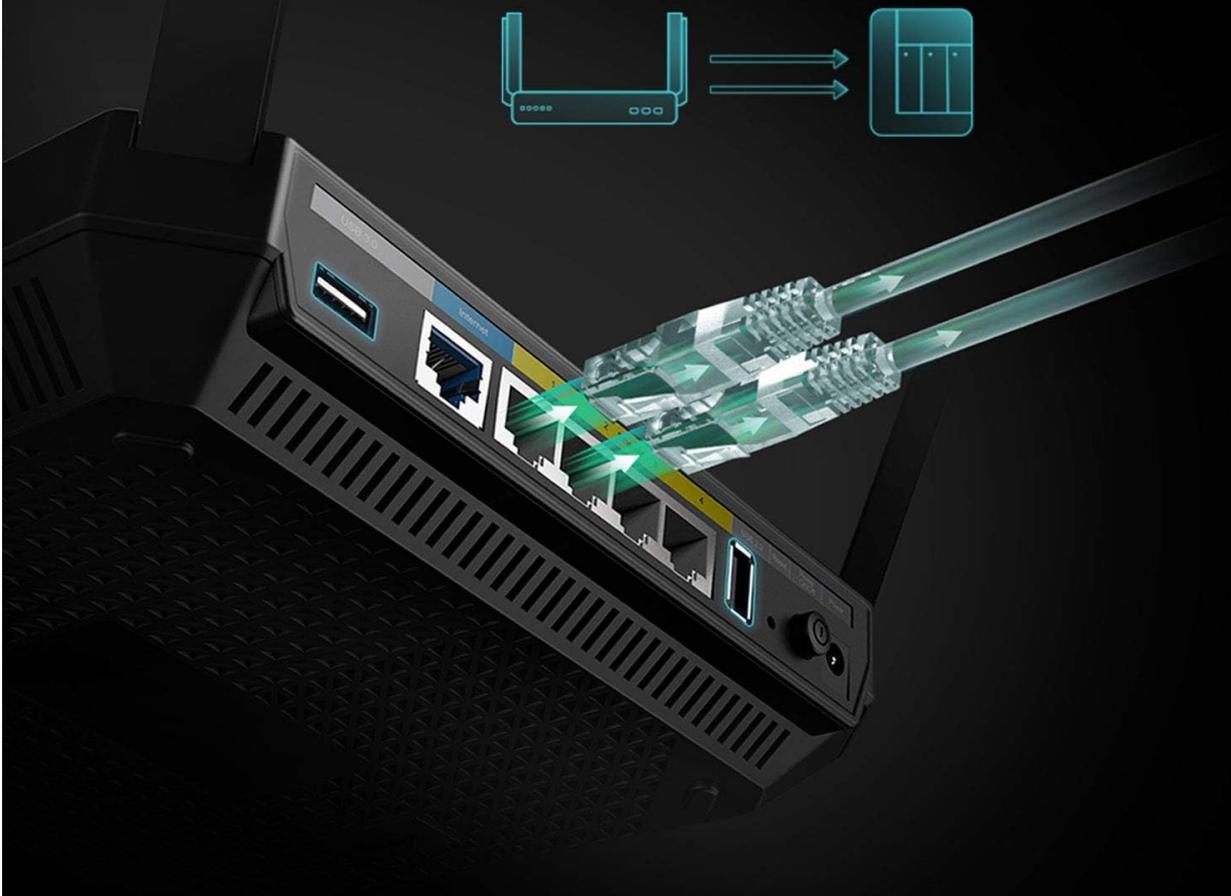


2. **Connect the router to the modem:** Use the provided Ethernet cable to connect the WAN/Internet port (blue) on your Archer A20 router to the Ethernet port on your modem.

Image: A close-up of the back of the TP-Link Archer A20 router, showing the blue WAN port and yellow LAN ports, with an Ethernet cable connecting the blue WAN port to a modem.

Premium Wired Performance

Link Aggregation doubles connection speeds up to 2Gbps



3. **Power on the modem:** Reconnect the power to your modem. Wait for approximately two minutes for the modem to fully start up.
4. **Power on the router:** Connect the power adapter to your Archer A20 router and plug it into a power outlet. Press the Power On/Off button if necessary. Wait for the router's LED indicators to stabilize.

Image: Top view of the TP-Link Archer A20 router with its antennas extended and blue LED indicators lit, signifying active connections.



3.2 Quick Setup via Web GUI

Follow these steps to configure your router using a web browser:

1. **Connect your device:** Connect your computer or mobile device to the router either via Ethernet cable (to any yellow LAN port) or wirelessly using the default SSID (Wi-Fi name) and password found on the label at the bottom of your router.
2. **Access the web management page:** Open a web browser and type <http://tplinkwifi.net> or <http://192.168.0.1> into the address bar.
3. **Create a password:** You will be prompted to create a new administrator password for the router. This password will be used to log in to the management page in the future.
4. **Follow the Quick Setup Wizard:**
 - Select your Time Zone.
 - Choose your Internet Connection Type (usually "Auto Detect" or "Dynamic IP" for most users).
 - Customize your Wi-Fi Network Name (SSID) and Password for both 2.4GHz and 5GHz bands.
 - Review the summary and save your settings.
5. **Reconnect to your new Wi-Fi network:** After saving, your router will apply the new Wi-Fi settings. You will need to reconnect your devices using the new SSID and password you just created.

3.3 Video Installation Guide

For a visual walkthrough of the installation process, please refer to the official TP-Link quick setup video below:

Your browser does not support the video tag.

Video: A step-by-step guide on how to quickly set up a TP-Link wireless router, covering physical connections and

4. OPERATING YOUR ROUTER

4.1 Wireless Performance

The Archer A20 is a Tri-Band router, meaning it operates on one 2.4GHz band and two separate 5GHz bands, allowing for more devices to connect simultaneously without sacrificing performance. This is ideal for 4K video streaming, online gaming, and other bandwidth-intensive activities.

MU-MIMO Technology: This feature allows the router to communicate with multiple devices simultaneously, improving overall network efficiency and reducing buffering.

Image: Diagram illustrating how the Archer A20 router with MU-MIMO handles multiple devices simultaneously compared to standard AC routers.

Highest in Customer Satisfaction for Wireless Routers

-J.D. Power



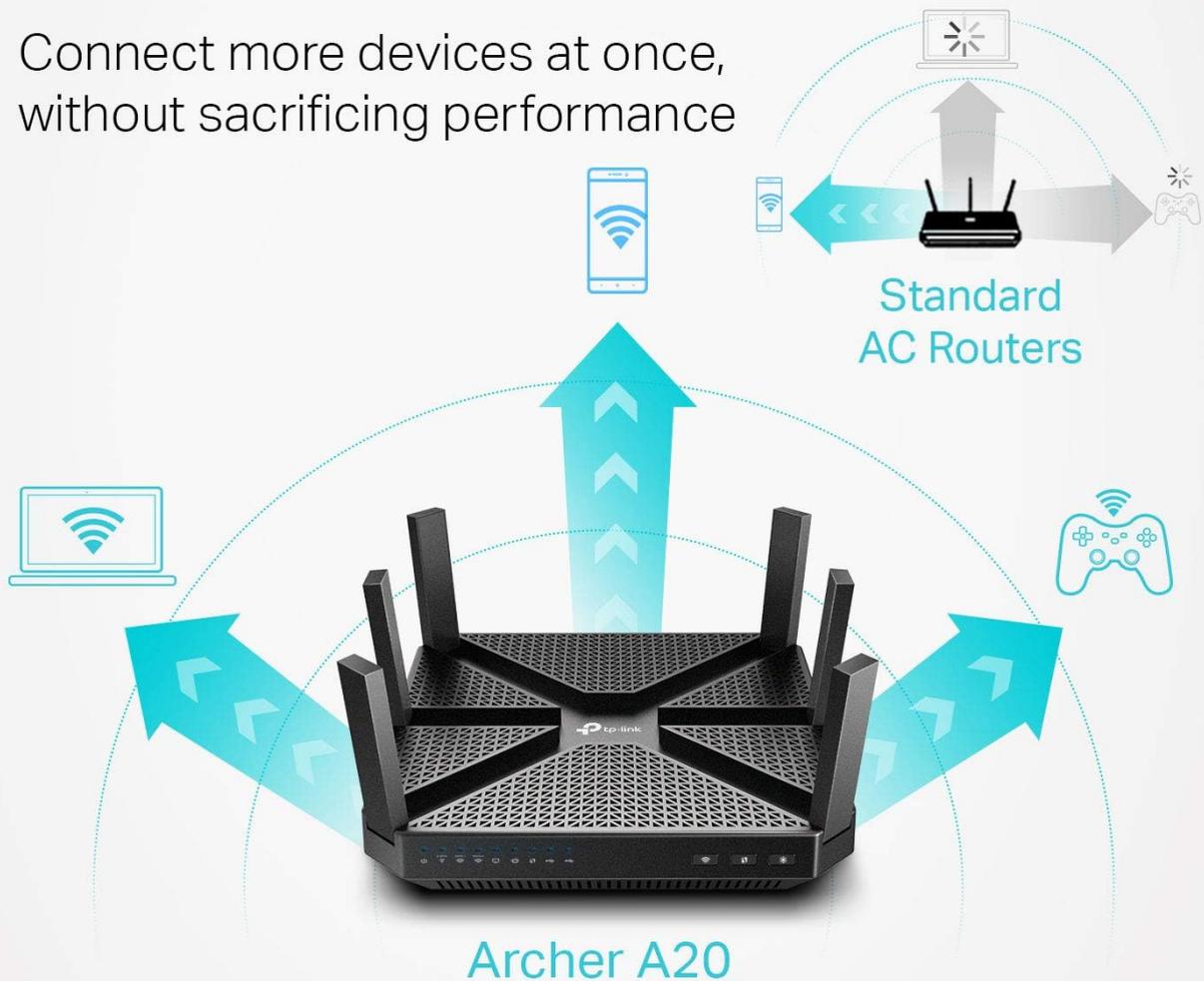
TP-Link received the highest numerical score in the J.D. Power 2017 and 2019 U.S. Wireless Router Satisfaction Reports, of customers' satisfaction with wireless routers. Visit jdpower.com/awards for more information.

RangeBoost & Beamforming: These technologies work together to extend Wi-Fi coverage and focus the signal directly to your connected devices, ensuring a strong and reliable connection throughout your home.

Image: Visual representation of RangeBoost and Beamforming extending Wi-Fi coverage throughout a house, showing the difference between Archer A20's enhanced range and average range.

More Devices, Endless Entertainment

Connect more devices at once,
without sacrificing performance



High-Speed Processing: Equipped with a 1.8 GHz 64-bit CPU, the Archer A20 can smoothly process multiple requests and accelerate loading times, ensuring a responsive network experience.

Image: Graphic illustrating the high-speed capabilities of the Archer A20, highlighting NitroQAM, MU-MIMO, and Tri-Band speeds (1625Mbps, 1625Mbps, 750Mbps).

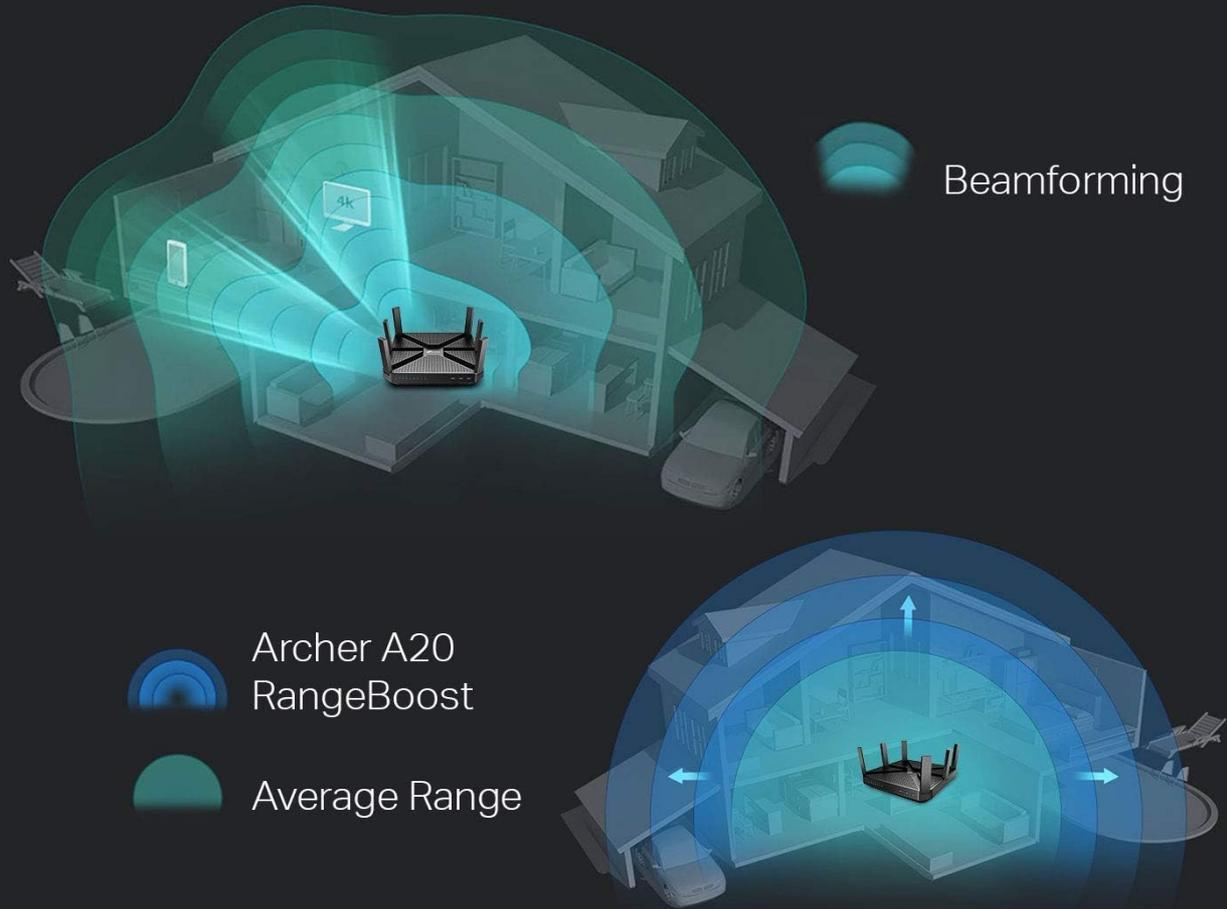
Far Reaching WiFi Coverage



RangeBoost



Beamforming



4.2 Wired Connections

The router includes one WAN Gigabit port and four LAN Gigabit ports. For devices requiring maximum speed and stability, such as gaming consoles or desktop computers, a wired Ethernet connection is recommended.

Link Aggregation: This feature allows you to combine two LAN ports to double the connection speed to a single device, achieving up to 2 Gbps for compatible devices.

Image: Diagram showing two Ethernet cables connecting from the router's LAN ports to a device, illustrating Link Aggregation to double connection speeds.

Boost Your WiFi Speed for Multiple Devices All at Once



NitroQAM
(1024-QAM)



MU-MIMO



Tri-Band



4.3 Advanced Features

- **TP-Link HomeCare:** Provides comprehensive security features including QoS (Quality of Service), robust Parental Controls, and Built-In Antivirus to protect your network from malicious attacks and manage network access.
- **VPN Server:** The router supports VPN server functionality, allowing you to securely access your home network and connected devices from anywhere.
- **USB Ports:** Features USB 3.0 and USB 2.0 ports for sharing files and media across your network or setting up a personal cloud storage.

5. MAINTENANCE

5.1 Firmware Updates

Regularly check for and install firmware updates to ensure optimal performance, security, and access to new features. Firmware updates can typically be found on the TP-Link official website or through the router's web management interface.

5.2 Router Placement

For the best Wi-Fi coverage and signal strength, place your router in a central location in your home, away from obstructions like thick walls, metal objects, and other electronic devices that may cause interference.

5.3 Resetting the Router

If you encounter persistent issues, you may need to reset the router. There are two types of resets:

- **Soft Reset (Reboot):** Simply power off the router, wait a few seconds, and then power it back on. This can resolve minor glitches.
- **Factory Reset:** With the router powered on, use a pin to press and hold the Reset button on the back of the router for about 10 seconds until the LEDs flash. This will restore the router to its factory default settings, requiring you to reconfigure it.

6. TROUBLESHOOTING

- **No Internet Access:**
 - Check all cable connections between the modem and router.
 - Power cycle both your modem and router.
 - Verify your Internet Connection Type settings in the router's web management page.
 - Contact your Internet Service Provider (ISP) to ensure your service is active.
- **Weak Wi-Fi Signal:**
 - Relocate the router to a more central position.
 - Avoid placing the router near large metal objects, concrete walls, or other electronics.
 - Ensure router antennas are properly oriented.
- **Cannot Access Web Management Page:**
 - Ensure your device is correctly connected to the router (wired or wireless).
 - Verify that you are using the correct address (<http://tplinkwifi.net> or <http://192.168.0.1>).
 - Try clearing your browser's cache or using a different browser.

7. TECHNICAL SPECIFICATIONS

Feature	Detail
Brand	TP-Link
Model Name	Archer A20
Wireless Type	802.11a, 802.11ac, 802.11b, 802.11g, 802.11n
Frequency Band Class	Tri-Band
Connectivity Technology	Ethernet, USB, Wi-Fi
Item Weight	3.54 pounds
Product Dimensions	7.87 x 7.87 x 1.54 inches

Feature	Detail
Operating System Support	OS Independent Up to Windows 10, Mac OS 10.12 and Linux
Special Features	QoS, WPS, MU-MIMO, Beamforming, Link Aggregation, Parental Control, VPN Server, Built-in Antivirus
Included Components	Network Cable, Power Supply, QIG
Recommended Uses	Gaming, 4K Video Streaming

8. WARRANTY AND SUPPORT

The TP-Link AC4000 Smart WiFi Router (Archer A20) comes with an industry-leading 2-year warranty. For technical assistance, TP-Link offers 24/7 technical support. You can find contact information and additional resources on the official TP-Link website: www.tp-link.com.