

HUAWEI WS7001-20

HUAWEI WiFi AX2 Wireless Router (WS7001-20) User Manual

Model: WS7001-20

1. PRODUCT OVERVIEW

The HUAWEI WiFi AX2 is a high-performance wireless router designed to provide fast and reliable internet connectivity throughout your home. It supports Wi-Fi 6 technology, offering speeds up to 1500 Mbps, with a 5GHz band supporting up to 1201 Mbps and a 2.4GHz band supporting up to 300 Mbps. This router features HarmonyOS Mesh+ for seamless multi-router setups, comprehensive parental controls, and an advanced antenna design for stable connections.



Image 1.1: Front view of the HUAWEI WiFi AX2 Wireless Router, showing its sleek white design and four external

2. PACKAGE CONTENTS

Before proceeding with the setup, please ensure all items are present in the package:

- HUAWEI WiFi AX2 Wireless Router (WS7001-20)
- Power Adapter
- Ethernet Cable
- Quick Start Guide
- Warranty Card

3. SETUP INSTRUCTIONS

Follow these steps to set up your HUAWEI WiFi AX2 Router:

1. **Connect the Power Adapter:** Plug the power adapter into the router's power port and then into a wall outlet. The power indicator light on the router should turn on.
2. **Connect to the Internet:** Connect one end of the Ethernet cable to the WAN port (usually labeled 'WAN' or a globe icon) on your router and the other end to your modem's LAN port.
3. **Connect Your Devices:**
 - **Wired Connection:** Connect your computer or other network devices to any of the LAN ports (labeled 1, 2, 3) on the router using an Ethernet cable.
 - **Wireless Connection:** On your Wi-Fi enabled device (smartphone, tablet, laptop), search for the Wi-Fi network name (SSID) printed on the label at the bottom of your router. Select it and enter the Wi-Fi password (also on the label).
4. **Access the Web-based Management Page:** Open a web browser on a connected device and enter [192.168.3.1](#) in the address bar. Follow the on-screen instructions to complete the initial setup, including setting up your Wi-Fi name and password.
5. **Download the HUAWEI AI Life App:** For easier management and advanced features, download the HUAWEI AI Life app from your device's app store. Use the app to configure settings, manage connected devices, and utilize parental controls.



Image 3.1: Rear view of the HUAWEI WiFi AX2 Router, showing the power port, three LAN/WAN ports, and the WPS/Reset button.

4. OPERATING INSTRUCTIONS

4.1 Dual-Band Automatic Switching

The HUAWEI WiFi AX2 operates on both 2.4GHz and 5GHz bands simultaneously. It intelligently switches your devices between these bands to ensure optimal connection quality and speed at all times. This means you don't need to manually select between 2.4GHz and 5GHz networks.

4.2 HarmonyOS Mesh+

If you have multiple HUAWEI routers that support HarmonyOS Mesh+, you can group them under a single Wi-Fi name. This creates a unified mesh network, allowing your devices to automatically switch between routers as you move around your home, ensuring continuous and strong Wi-Fi coverage.

4.3 Comprehensive Parental Control

Manage your family's internet usage with the built-in parental control features. Through the HUAWEI AI Life app, you can:

- Block access to inappropriate websites.
- Limit internet access time for specific devices.
- View internet usage statistics for connected devices.

5. MAINTENANCE

To ensure optimal performance and longevity of your router, consider the following maintenance tips:

- **Placement:** Place the router in a central location, away from obstructions, large metal objects, and other electronic devices that may cause interference. Ensure adequate ventilation around the router.
- **Firmware Updates:** Regularly check for and install firmware updates through the HUAWEI AI Life app or the web-based management page. Updates often include performance improvements and security patches.

- **Rebooting:** If you experience network issues, try rebooting the router by unplugging the power adapter for 10 seconds and then plugging it back in.
- **Cleaning:** Keep the router clean and free from dust. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners.



Image 5.1: Side view of the HUAWEI WiFi AX2 Router, highlighting the ventilation slots for proper heat dissipation.

6. TROUBLESHOOTING

If you encounter issues with your HUAWEI WiFi AX2 Router, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Internet Access	Incorrect cable connection, modem issue, or incorrect router settings.	Check that the Ethernet cable is securely connected to the WAN port and your modem. Reboot both the modem and the router. Verify internet settings via the web-based management page or AI Life app.

Problem	Possible Cause	Solution
Slow Wi-Fi Speed	Interference, too many connected devices, outdated firmware, or poor router placement.	Ensure the router is placed optimally (see Maintenance section). Reduce the number of active devices. Update router firmware. Consider if your internet service provider (ISP) speed is the bottleneck.
Wi-Fi Disconnects Frequently	Signal interference, distance from router, or channel congestion.	Move closer to the router. Check for sources of interference (e.g., microwaves, cordless phones). Use the AI Life app to analyze Wi-Fi channels and switch to a less congested one.
Cannot Access Router Settings Page	Incorrect IP address, device not connected to router, or browser issue.	Ensure your device is connected to the router's Wi-Fi or via an Ethernet cable. Verify you are entering 192.168.3.1 correctly. Try a different web browser.

If the problem persists, perform a factory reset by pressing and holding the WPS/Reset button on the back of the router for approximately 10 seconds until the indicator light flashes. Note that a factory reset will erase all your custom settings.

7. SPECIFICATIONS

Feature	Detail
Brand	HUAWEI
Model Name	WS7001-20
Item Model Number	WS7001-20
Product Dimensions	25.76 x 16.35 x 2.9 cm
Item Weight	580 g
Wireless Type	802.11ax (Wi-Fi 6)
Frequency Band Class	Dual-Band (2.4GHz & 5GHz)
Connectivity Technology	Wi-Fi
Operating System	RouterOS
Number of Ports	3 (LAN/WAN auto-sensing)
Special Features	Access Point Mode
Compatible Devices	Smartphone, Tablet
Recommended Uses For Product	Home
Batteries Included	No

Feature	Detail
Date First Available	September 7, 2023

8. WARRANTY AND SUPPORT

8.1 Warranty Information

For detailed warranty information, please refer to the warranty card included in your product package or visit the official HUAWEI website. Warranty terms and conditions may vary by region and retailer.

8.2 Technical Support

If you require further assistance or have technical questions not covered in this manual, please contact HUAWEI customer support. You can find contact details on the official HUAWEI website or through the HUAWEI AI Life app.