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Xiaomi AX3000

Xiaomi AX3000 Router User Manual

Model: AX3000

1. PRODUCT OVERVIEW

The Xiaomi AX3000 Router is a high-performance WiFi 6 Gigabit router designed for robust home networking. It features dual-frequency support (2.4GHz and 5GHz) and advanced technologies like Mesh networking for comprehensive coverage.



Figure 1: Front view of the Xiaomi AX3000 Router, showcasing its sleek black design and vertical orientation.

Key Features:

- **Powerful WiFi 6 (802.11ax):** Delivers up to 3000Mbps theoretical maximum rate for fast and efficient wireless connectivity.
- **Dual-Band Support:** Operates on both 2.4GHz (up to 574Mbps) and 5GHz (up to 2402Mbps) frequencies, with 160MHz bandwidth on 5GHz for higher speeds.
- **Mesh Networking:** Supports seamless roaming and full house coverage by combining multiple routers.
- **256MB Large Memory:** Enables stable connection for up to 128 devices simultaneously.
- **4 Independent Signal Amplifiers:** Enhances signal coverage and strength, improving penetration through walls.
- **OFDMA Technology:** Improves multi-device simultaneous transmission efficiency, reducing latency.
- **Qualcomm Chip:** Provides stable and reliable performance with an independent network acceleration engine.

- **Xiaomi Easy Connect:** Simplifies connecting Xiaomi smart devices to the network.



Xiaomi Router AX3000

WiFi6 Version,
3000Mbps High Speed Upgrade

3000Mbps Wireless Rate Enjoy fast WiFi6	4-Independent Signal Amplifier Signal cover increased by 50%		
256MB Large memory	160MHz High bandwidth	4 Pcs Hidden antenna	Multi Model Hybrid Mesh networking*
Qualcomm Chip Powerful performance	Xiaomi Easy Connect Quickly connect to Xiaomi smart devices	WiFi6 Exclusive acceleration for Xiaomi devices	

Figure 2: Overview of the Xiaomi AX3000 Router's main features, including its 3000Mbps wireless rate, 256MB memory, 160MHz bandwidth, hidden antennas, and Mesh networking capabilities.

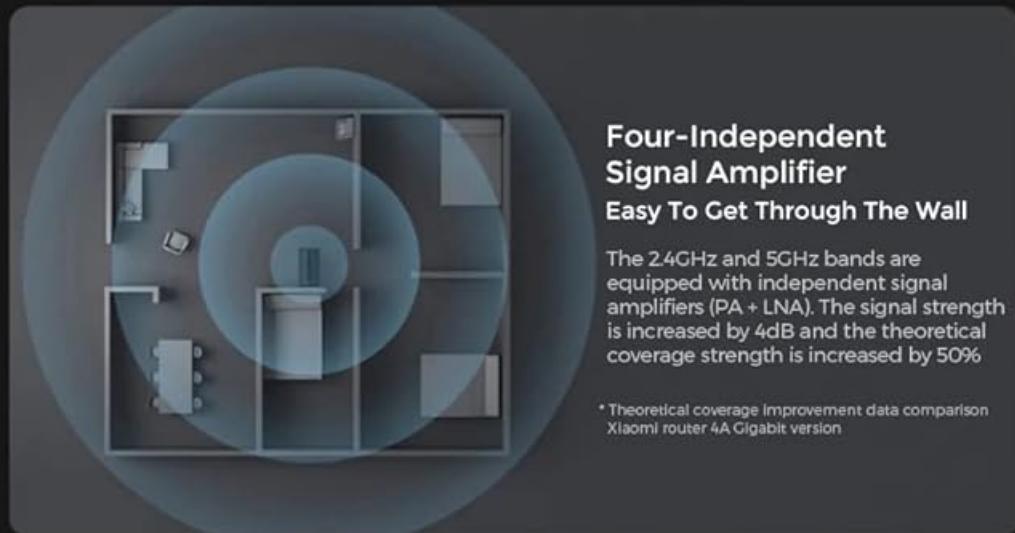


WiFi6 Large Houses Also Supports

Four-Hidden Antennas

360° Signal Coverage

Built in four omnidirectional high gain antennas to avoid unreasonable antenna placement affecting the signal. LDPC error correction algorithm is supported, so that the signal coverage is wider and the transmission performance is stronger



Four-Independent Signal Amplifier Easy To Get Through The Wall

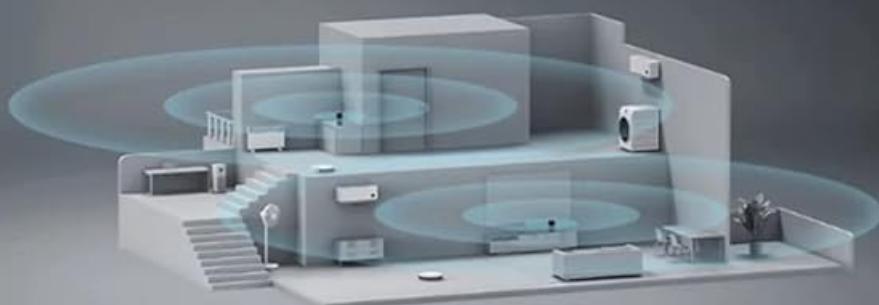
The 2.4GHz and 5GHz bands are equipped with independent signal amplifiers (PA + LNA). The signal strength is increased by 4dB and the theoretical coverage strength is increased by 50%

* Theoretical coverage improvement data comparison
Xiaomi router 4A Gigabit version

Mesh Networking Full House Coverage Seamless Roaming, Internet Access

Xiaomi mesh technology can enable multiple routers to form a strong mesh network. Whether it is a large house type or up and down multi-storey, it can cover the whole house with super strong network signals. Devices can be seamlessly connected in multiple routes and play without fear of Caton while walking.

Support Xiaomi Mesh scheme



It can be combined with Xiaomi router AX3000 / AX6000 / AX3600 / AX8000 and Redmi router AX5 / AX5 / AX3000 of the latest software version. The terminal needs to support 802.11k/v protocol. The actual experience is related to the user terminal capability and the actual home environment.

Figure 3: Illustration of WiFi6 benefits for large homes, showing 360° signal coverage from four hidden antennas, signal amplification for wall penetration, and seamless Mesh networking.

WiFi6 3000M Super Speed Upgrade

3000Mbps Wireless Rate No Caton, More High Definition

Using the new generation wifi6 technology, the dual band concurrent wireless rate is as high as 2976Mbps, which is 155% higher than the mainstream AC1200, and the Internet speed can be faster.

Xiaomi AC1200

Mainstream AC1200

Relative promotion

155%



* 2976Mbps is the theoretical value of the maximum wireless rate of 2.4GHz and 5GHz dual band concurrency. The actual rate will be different due to the impact of the environment



2x2 160MHz
AX3000



2x2 80MHz
AX1800

5G 160MHz High Bandwidth Double The Bandwidth, Double The Rate

5G band support 2x2 160MHz. Compared with the traditional 80MHz, the bandwidth is doubled, the theoretical speed is doubled, and the connection of multiple devices also has a high speed network

* It needs to be used in 5G frequency band with equipment supporting 160MHz.

OFDMA, Efficient Transmission Multi-device Simultaneous Transmission

OFDMA technology allows one transmission to complete the data transmission of multiple devices. Multiple devices can access the Internet at the same time, and can also transmit data efficiently. Lower network delay and smoother game playing.



WiFi6 Router Supporting OFDMA

Multiple user data can be transmitted simultaneously

Traditional WiFi5 router

Only one user data can be transmitted simultaneously

* This function requires the terminal equipment to support OFDMA.

Figure 4: Details on the 3000Mbps wireless rate, 5G 160MHz high bandwidth, and OFDMA multi-device simultaneous transmission for the Xiaomi AX3000 Router.

Fast WiFi6 Easy Connect Throughout The House

Xiaomi Easy Connect Quickly Connect To Smart Device

Mi's app automatically finds Xiaomi's intelligent devices that are not connected to the network around. There is no need to enter a password and no cumbersome settings. The elderly and children can easily access the network with one click



* Whether the intelligent device supports the "Xiaomi easy connect" function shall be subject to its manual



256MB Large Memory Stable Connection Of 128 Devices

The large memory is specially prepared for multi-user scenes such as video entertainment, party playing games, etc. mobile phones, tablets, notebooks and intelligent devices in the whole house are connected at the same time, which can be connected stably and respond smoothly

*128 devices are the comprehensive access value of 2.4G/5G/LAN under laboratory conditions.

Figure 5: Information on Xiaomi Easy Connect for quick device pairing and the 256MB large memory supporting stable connections for up to 128 devices.

6 Major Technical Support



Beamforming

Automatic detection of device position, directional enhancement of signal, wider coverage



BSS Coloring*

Reasonable algorithm optimization to reduce interference between different WiFi



Dual Frequency Integration

Automatically select the appropriate frequency band for access, no longer tangle with which band to connect



Security Center

Wireless access control, preventing terminal malicious access



WPA3

A new generation of secure encryption protocol to protect the security of home network



IPv6

Larger address space, higher forwarding efficiency and security

* This function requires the mobile housekeeper in MIUI system to upgrade to version 4.2.3 or above

Rigorous Testing, Pursuit Of Excellent Quality

≥ 220000 times

Power supply stability test

(4 scenarios, 20 prototypes, cumulative power on and power off times)

≥ 54 times

Hardware structure reliability test

(drop test, Impact test, vibration test)

≥ 180000 times

Memory pressure test

(cumulative reading and writing times of 20 prototypes)

128 sets

Simultaneous on-line testing of multiple devices

(comprehensive access value in laboratory environment)

≥ 1000 hours

Harsh environment test

(cumulative test of 4 prototypes in 6 scenarios)

≥ 100000 times

Flash memory device reliability test

(flash continuous read / write test)

Figure 6: Overview of the router's technical support features like Beamforming, BSS Coloring, WPA3, and IPv6, alongside rigorous quality testing procedures.

Powerful WiFi6 Stable And Reliable Performance

Next Generation Qualcomm Chips Ultra Stable Operation, Not Dropped

Qualcomm router chip with new architecture design: With the tacit cooperation between NPU and CPU, the data processing capacity and operation efficiency have been greatly improved and the stable operation does not drop.



Independent Network Acceleration Engine

NPU network acceleration engine can effectively reduce CPU load and independently process network data traffic to maintain a stable state when multiple applications are online.

The conclusion of CPU load reduction is compared with that before and after Xiaomi router AX3000 turns on and off NPU.

Cool Dark Cube Design Excellent Performance At All Times

Good heat conduction design, large channel convection and large heat sink effectively reduce the chip temperature and keep the system running stably at all times.



Figure 7: Details on the Next Generation Qualcomm Chip for stable operation, the independent network acceleration engine, and the cool dark cube design for effective heat dissipation.

2. SETUP GUIDE

2.1 Package Contents

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

- 1 x Xiaomi AX3000 Router
- 1 x User Manual (this document)
- 1 x Network Cable
- 1 x Power Adapter (CN-plug)

2.2 Physical Connection

1. **Power Connection:** Connect the provided power adapter to the router's power input interface and plug it into a power outlet.
2. **WAN Connection:** Connect one end of the network cable to the WAN port (labeled 10/100/1000M Adaptive WAN) on the router. Connect the other end to your modem or main internet source.
3. **LAN Connection (Optional):** For wired devices, connect them to any of the three LAN ports (labeled 10/100/1000M Adaptive LAN) on the router using network cables.

2.3 Initial Configuration

After physical connections are made, the router will power on. Wait for the System Indicator and Internet Indicator LEDs to stabilize. The System Indicator should be solid blue, and the Internet Indicator should be solid blue or green, indicating a successful connection.

To configure the router:

1. **Connect to Router:** Connect your computer or mobile device to the router's default Wi-Fi network. The default SSID (network name) and password are usually found on a sticker on the bottom of the router.
2. **Access Web Interface:** Open a web browser and enter the default router IP address (e.g.,192.168.31.1 or miwifi.com) into the address bar.
3. **Follow On-Screen Prompts:** The setup wizard will guide you through setting up your internet connection, Wi-Fi network name (SSID), and password. It is recommended to change the default Wi-Fi password for security.
4. **Xiaomi Home App (Optional):** For easier management and advanced features, download the Xiaomi Home app (available on Android and iOS) and add your router.

3. OPERATING INSTRUCTIONS

3.1 Wi-Fi Connectivity

- **Connecting Devices:** Search for your Wi-Fi network name (SSID) on your device and enter the password you set during initial configuration.
- **Dual-Band Operation:** The router broadcasts both 2.4GHz and 5GHz networks. For older devices or wider coverage, use 2.4GHz. For newer devices requiring higher speeds and less interference, use 5GHz.
- **Xiaomi Easy Connect:** For compatible Xiaomi smart devices, use the Xiaomi Home app's Easy Connect feature to quickly add them to your network without manual password entry.

3.2 Mesh Networking

The Xiaomi AX3000 Router supports Mesh networking for seamless whole-home Wi-Fi coverage. This allows multiple compatible Xiaomi routers to work together as a single network.

1. **Adding Mesh Nodes:** Place additional compatible Xiaomi Mesh routers in areas with weak Wi-Fi signals.
2. **Mesh Button:** Press the "Mesh Button" on both the main router and the new Mesh node to initiate the pairing process. Refer to the specific Mesh node's manual for detailed pairing instructions.

3. **Seamless Roaming:** Devices will automatically switch to the strongest signal as you move around your home, ensuring uninterrupted connectivity.

3.3 Advanced Settings (Web Interface/App)

Access the router's web interface or the Xiaomi Home app for advanced settings:

- **Wireless Security:** Configure WPA-PSK/WPA2-PSK/WPA3-SAE encryption, manage wireless access control (black/white lists), and hide your SSID.
- **Network Acceleration:** Utilize the independent network acceleration engine for optimized performance, especially for gaming or streaming.
- **Parental Controls:** Manage internet access times and content for connected devices.
- **Firmware Updates:** Regularly check for and install firmware updates to ensure optimal performance and security.

4. MAINTENANCE

- **Placement:** Place the router in a central location, away from obstructions, large metal objects, and other electronic devices that may cause interference.
- **Cleaning:** Keep the router clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners or aerosols.
- **Ventilation:** Ensure the router's ventilation slots are not blocked to allow for proper natural heat dissipation.
- **Firmware Updates:** Regularly check for and apply firmware updates through the router's web interface or the Xiaomi Home app. Updates often include performance improvements, security patches, and new features.
- **Rebooting:** Periodically rebooting the router (unplugging the power for 10 seconds and plugging it back in) can help resolve minor connectivity issues and improve performance.

5. TROUBLESHOOTING

5.1 No Internet Connection

- **Check Cables:** Ensure the network cable from your modem is securely connected to the router's WAN port.
- **Check Indicators:** Verify that the Internet Indicator LED on the router is solid blue or green. If it's off or blinking, there might be an issue with your internet service provider (ISP) connection.
- **Reboot Devices:** Power cycle your modem first, then the router. Wait a few minutes for both to fully restart.
- **ISP Issue:** If the problem persists, contact your Internet Service Provider.

5.2 Slow Wi-Fi Speed or Weak Signal

- **Router Placement:** Move the router to a more central location, away from walls, large furniture, and electronic devices that can cause interference.
- **Interference:** Other wireless devices (cordless phones, microwaves, Bluetooth devices) can interfere. Try changing the Wi-Fi channel in the router settings.
- **Band Selection:** For devices closer to the router and requiring higher speeds, ensure they are connected to the 5GHz network.
- **Mesh Network:** Consider adding compatible Xiaomi Mesh nodes to extend coverage in larger homes.
- **Device Compatibility:** Ensure your devices support Wi-Fi 6 (802.11ax) to fully utilize the router's capabilities.

5.3 Cannot Access Router Settings

- **Correct IP Address:** Ensure you are using the correct IP address (e.g., 192.168.31.1) or domain (miwifi.com).
- **Network Connection:** Verify your device is connected to the router's Wi-Fi network or via an Ethernet cable to a LAN port.
- **Reset Router:** If you forgot your password or cannot access settings, press and hold the "System Reset" button on the router for about 5-10 seconds until the System Indicator blinks. This will restore factory default settings, and you will need to reconfigure the router.

6. SPECIFICATIONS

Feature	Detail
Brand	Xiaomi
Model	AX3000
CPU	IPQ5000 Dual Core Processor 1.0GHz
Network Throttle Motor	Single Core 1.0GHz
RAM	256MB
2.4G Wi-Fi	2x2 (IEEE 802.11ax protocol, max 574Mbps)
5G Wi-Fi	2x2 160MHz (IEEE 802.11ax protocol, max 2402Mbps)
Antenna	4* integrated product antenna
Heat Dissipation	Natural heat dissipation
Interfaces	1 * 10/100/1000M Adaptive WAN port, 3 * 10/100/1000M Adaptive LAN Ports
LED Indicators	1 * System Indicator, 1 * Internet Indicator
Buttons	1 * System Reset, 1 * Mesh Button
IEEE Protocol	802.11a/b/g/n/ac/ax, 802.3/3u/3ab
Wireless Security	WPA-PSK/WPA2-PSK/WPA3-SAE, wireless access control, SSID hiding, smart anti-scratch network
Operating System	MiWiFi ROM (based on OpenWRT)
Management App	Support Web, Android, iOS
Operating Temperature	0 ~ 40 °C (32 ~ 104 °F)
Working Humidity	10% ~ 90% RH (non-condensing)
Dimensions (Package)	11.81 x 3.94 x 3.94 inches

Feature	Detail
Item Weight	1.76 pounds

7. WARRANTY AND SUPPORT

7.1 Warranty Information

Xiaomi products typically come with a limited warranty. Please refer to the warranty card included in your product packaging or visit the official Xiaomi website for detailed warranty terms and conditions specific to your region. Keep your purchase receipt as proof of purchase for warranty claims.

7.2 Customer Support

For technical assistance, troubleshooting, or product inquiries, please contact Xiaomi customer support through their official website or the contact information provided in your product documentation. You can also visit the [Xiaomi Store on Amazon](#) for more product information and resources.



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This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents - AX3000

	<p>Xiaomi AX3000 Mesh System User Manual Setup, Configuration, and Specifications</p> <p>Comprehensive user manual for the Xiaomi AX3000 Mesh System, covering setup, network configuration, mesh networking methods, indicator status, FAQ, certifications, and technical specifications.</p>
	<p>Xiaomi Mesh System AX3000 NE: Kompletní uživatelská příručka a průvodce nastavením</p> <p>Podrobný průvodce pro Xiaomi Mesh System AX3000 NE. Zjistěte, jak nastavit, konfigurovat a řešit problémy s vaším Mesh Wi-Fi systémem. Obsahuje přehled produktu, metody konfigurace, specifikace a regulační informace.</p>
	<p>Xiaomi Mesh System AX3000 NE User Manual: Setup, Configuration, and Troubleshooting</p> <p>Comprehensive user manual for the Xiaomi Mesh System AX3000 NE (RD28). Learn how to set up, configure, troubleshoot, and understand the regulatory compliance of your Xiaomi Wi-Fi mesh network.</p>

 Xiaomi Mesh System AX3000	<p><u>Xiaomi Mesh Systém AX3000 Návod na obsluhu</u></p> <p>Návod na obsluhu pre Xiaomi Mesh Systém AX3000, pokryvajúci nastavenie, mesh sieťovanie, ovládanie cez aplikáciu, riešenie problémov a technické špecifikácie.</p>
 Xiaomi AX3000 NE	<p><u>Xiaomi AX3000 NE Mesh System User Manual - Setup, Configuration, and Troubleshooting</u></p> <p>Comprehensive user manual for the Xiaomi AX3000 NE Mesh System. Learn how to set up, configure, and troubleshoot your mesh Wi-Fi network for extended coverage. Includes specifications and regulatory information.</p>
 Xiaomi Mesh System AX3000	<p><u>Xiaomi Mesh System AX3000 User Manual</u></p> <p>User manual for the Xiaomi Mesh System AX3000, providing instructions on setup, configuration, and troubleshooting.</p>