

Mi AIoT Router AX3600

Wi-Fi 6 deluxe flagship model
The pioneer router in 5G era



3-Gigabit wireless rate

Theoretical combined dual-frequency
Wi-Fi rate Up to 2976 Mbps*

Qualcomm six-core chip

Stable Internet connection for
multi-tasking Easier to use

OFDMA + MU-MIMO

Lower latency when multiple devices
are operated simultaneously

512 MB memory

Stable connection to
248 devices*

6-channel external high- performance signal amplifier

Better coverage with no
need for wall penetration

AIoT Dedicated Antenna

Xiaomi one-click network
connection for smart devices

WPA3 network encryption

Enhanced wireless
connection security

*2976 Mbps is the maximum theoretical wireless speed when the 2.4 GHz and 5 GHz bands
are used concurrently. Actual speeds may vary depending on the surroundings.

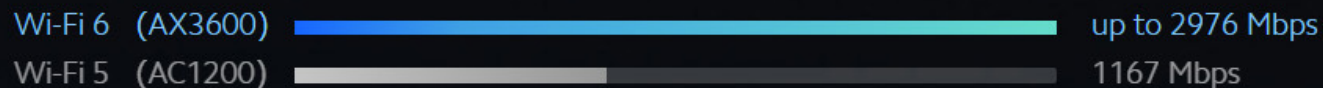
*Integrated access to 2.4 GHz Wi-Fi/5 GHz Wi-Fi/LAN for 248 devices under test conditions

Comparison of Wi-Fi 6 and Wi-Fi 5 Routers

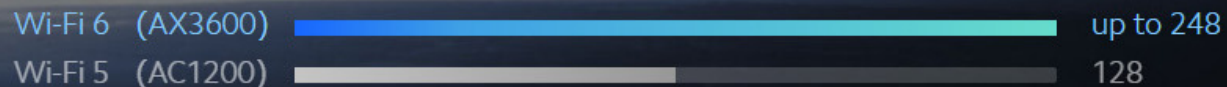
A giant leap forward in web experience

Wi-Fi 6 (802.11ax) is the latest generation in Wi-Fi standards. Compared to the previous generation of Wi-Fi 5 (802.11ac) in terms of transfer rates, coverage and data latency, it has been vastly improved. Especially when multiple end devices are connected at the same time, the Wi-Fi 6 router can significantly reduce and lower end-device latency and unresponsiveness.

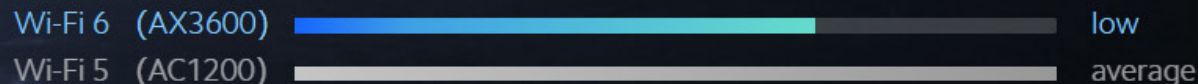
Wireless Rate



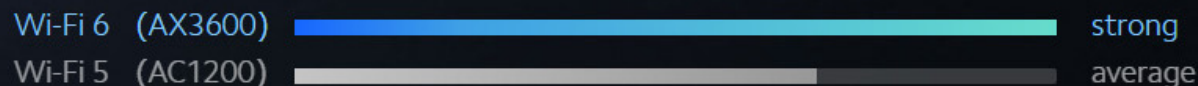
Number of Access Devices



Network Latency



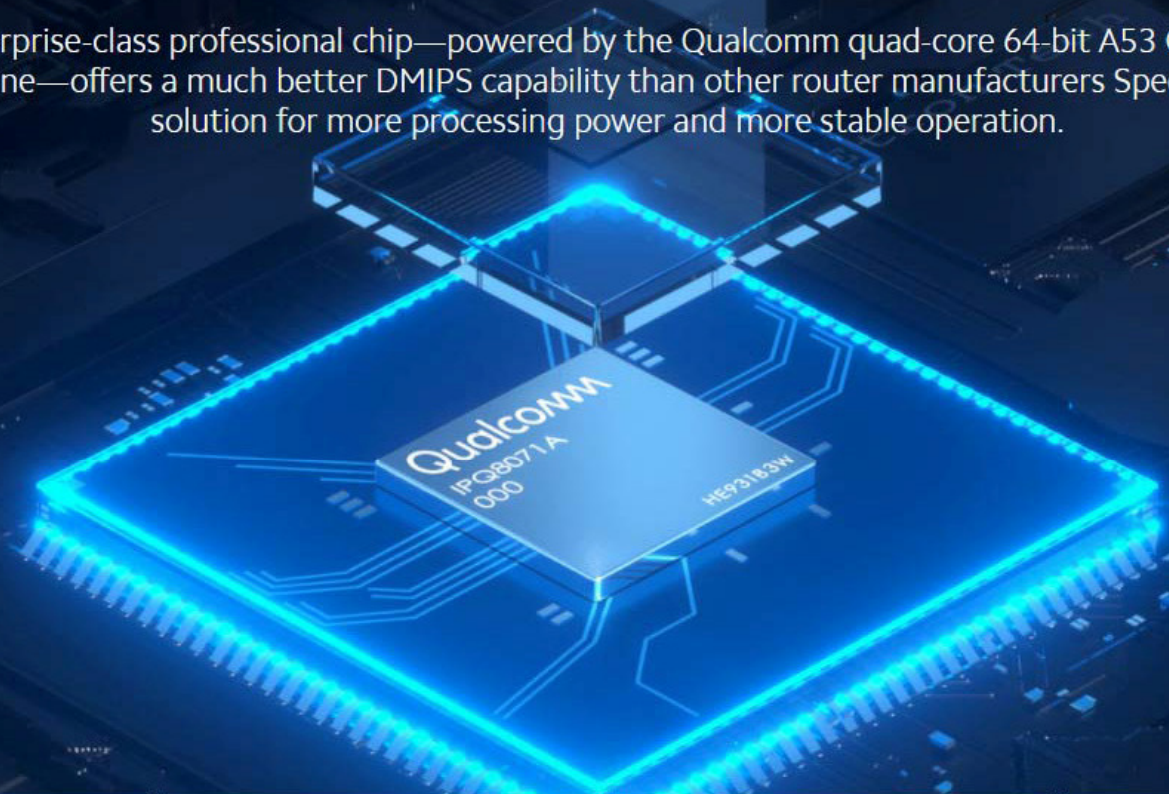
Signal Coverage



*The above performance enhancements are only perceptible with devices that support Wi-Fi 6 (802.11ax). All the values are theoretical, technical values.

Qualcomm six-core enterprise-class professional chip for more stable operation

The IPQ8071A enterprise-class professional chip—powered by the Qualcomm quad-core 64-bit A53 CPU dual-core network acceleration engine—offers a much better DMIPS capability than other router manufacturers Speed specification chip solution for more processing power and more stable operation.



Fast Speed

*20% faster data forwarding speed

Interference-Proof

*33% better performance with Qualcomm Wi-Fi 6 chip

Low Latency

*Latency 36.8% lower

Stable Connection

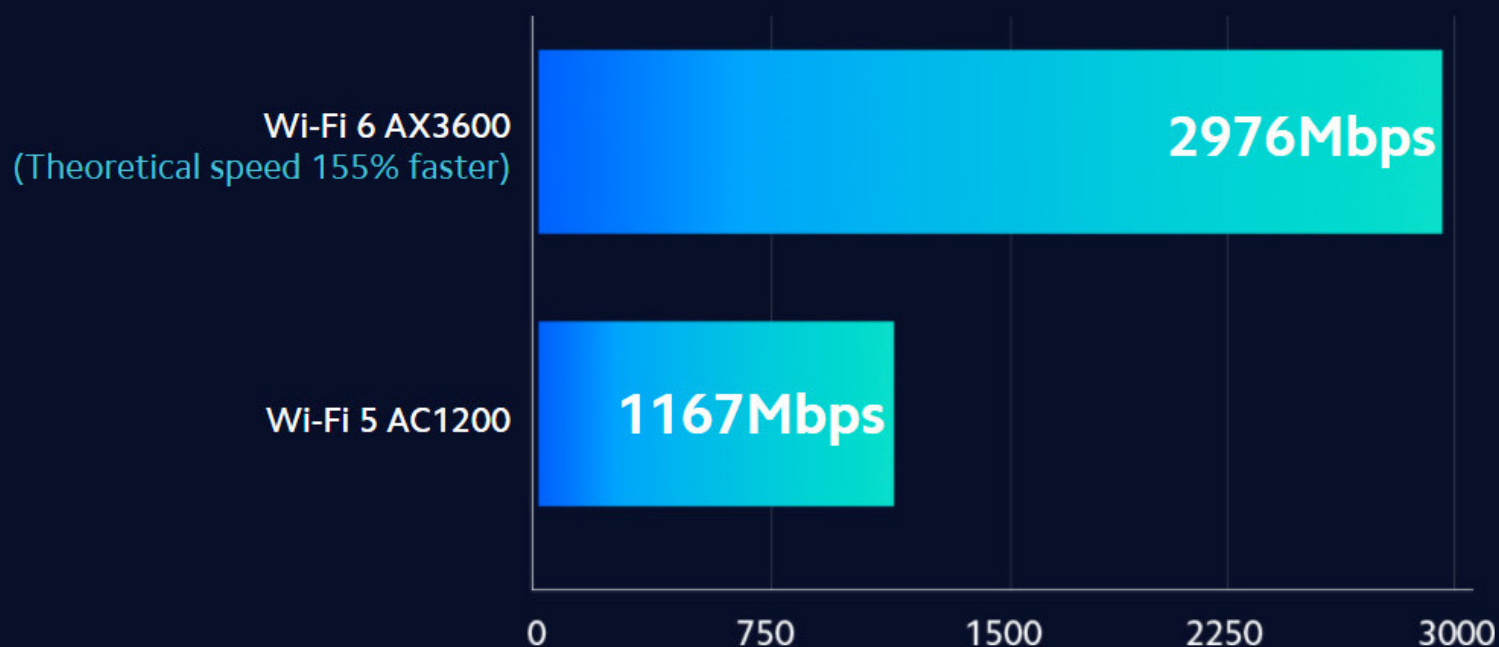
*248 access devices, CPU utilization less than 20%

*The above data is from the results found by the Xiaomi Laboratory

Wi-Fi speeds of up to 3000 Mbps 155% faster than mainstream Wi-Fi 5 rates

The Mi AIoT Router AX3600 offers two bands of 2.4 GHz and 5 GHz, each with 802.11ax technology and no mutual interference.

The two bands offer a combined dual-band wireless speed of up to 2976 Mbps*. The 2.4 GHz frequency band features longer transmission for better coverage and better wall-penetrating performance. The 5-GHz frequency band provides low interference and high speed for smooth HD video playback and smoother experience when playing large online games.



*2976 Mbps is the maximum theoretical wireless speed when the 2.4 GHz and 5 GHz bands are used concurrently.
Actual speeds may vary depending on the surroundings.

6-channel external high-performance signal amplifier

Two and four external high-performance signal amplifiers (PA and LNA) are installed in the 2.4-GHz band and 5-GHz band respectively. The PA (Power Amplifier) effectively increases the signal transmitting power, allowing the router to transmit signals further and stronger through walls. The LNA (Low Noise Amplifier) increases the signal reception sensitivity, allowing the router to receive a weaker signal from further away.



The diagram shows a top-down view of a router's internal circuit board, which is dark blue with intricate white and light blue circuit traces. Two large, square, glowing blue chips are the central focus. Below each chip, there are several smaller, glowing orange rectangular components. The background is filled with various electronic components like capacitors, resistors, and other integrated circuits, all rendered in a dark, high-tech aesthetic.

2.4GHz
Wi-Fi Chip

5GHz
Wi-Fi Chip

PA+LNA

PA+LNA

PA+LNA

PA+LNA

PA+LNA

PA+LNA

512 MB of memory, allowing up to 248 devices to connect at the same time*

A flagship router is a complex environment that must be capable of supporting multiple people playing games, family gatherings, and house parties with multiple devices. The AX3600 has 512 MB of memory and supports up to 248 devices connected simultaneously, making it the simple solution for a variety of locations.



*Integrated access to 2.4 GHz Wi-Fi/5 GHz Wi-Fi/LAN for 248 devices under test conditions

AIoT Smart Antenna, Quickly discover a Xiaomi smart device by entering it into the network

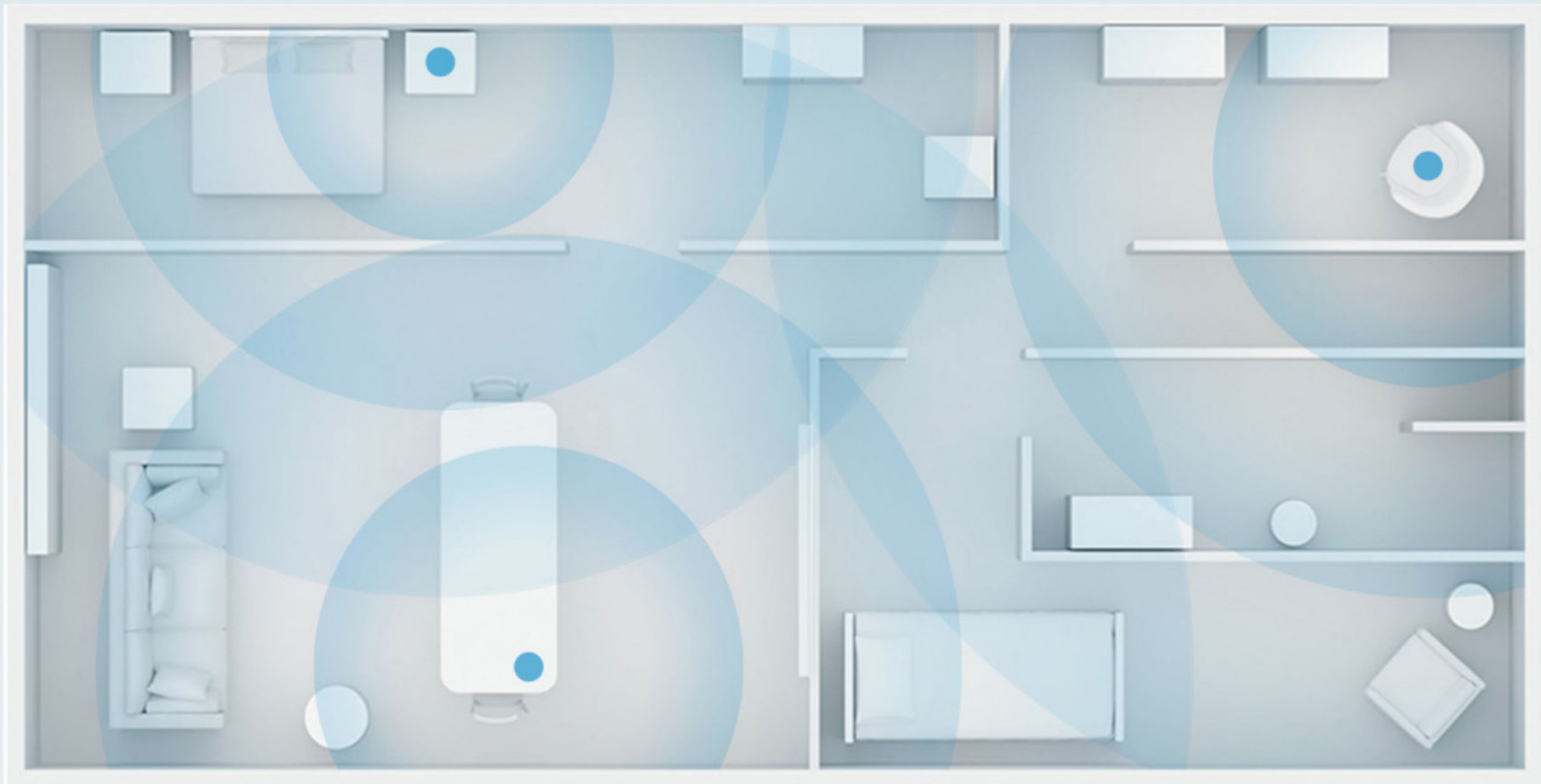
Equipped with an "AIoT Smart Antenna," open the Mi Home app to discover uninitialized Mi smart devices*. Connect to the network and access a wide range of smart features with the touch of a button. You can help your parents configure their new devices quickly, even when you're away from home.



*Supports most Wi-Fi-enabled devices that connect via the Mi Home app

Supports multiple mesh networking* Wi-Fi 6 throughout the house

Enjoy high-speed Wi-Fi 6 throughout the house. Instead of dealing with dead spots from a single router, multiple mesh groups* can easily handle all kinds of complex home layouts to seamlessly cover the house. Plus, you can enjoy high-speed Wi-Fi 6 everywhere you go with support for the 802.11k/v protocol. Actual experience depends on the actual environment and user end device capability.

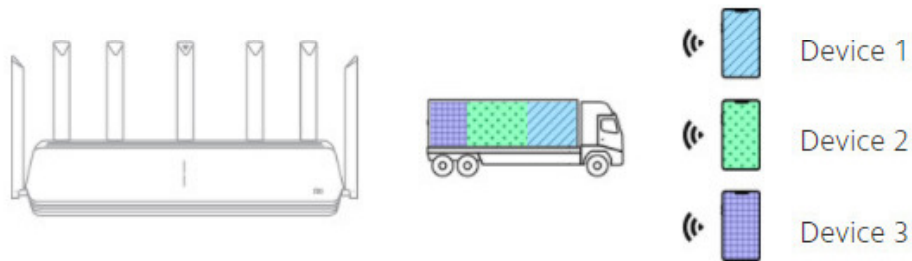


Note: The router will support Mesh functions within 2020 through an OTA update.

With OFDMA technology* for transmitting data to multiple devices

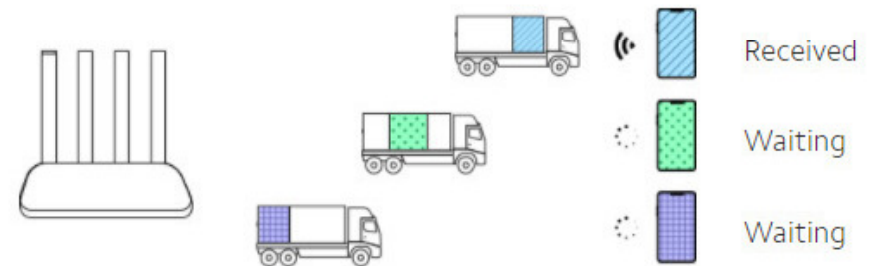
OFDMA technology is one of the biggest differences between AX3600 and traditional routers, allowing the AX3600 to send data to multiple end devices with only one transmission (up to eight end devices*), whereas traditional routers will need to transmit data from multiple end devices in turn. OFDMA allows highly efficient transfer and reduced latency so multiple devices can be used simultaneously.

Wi-Fi 6 Router with OFDMA Support



Data from multiple users can be transmitted at the same time

Traditional Wi-Fi 5 Router



Only data from one user can be transmitted at a time

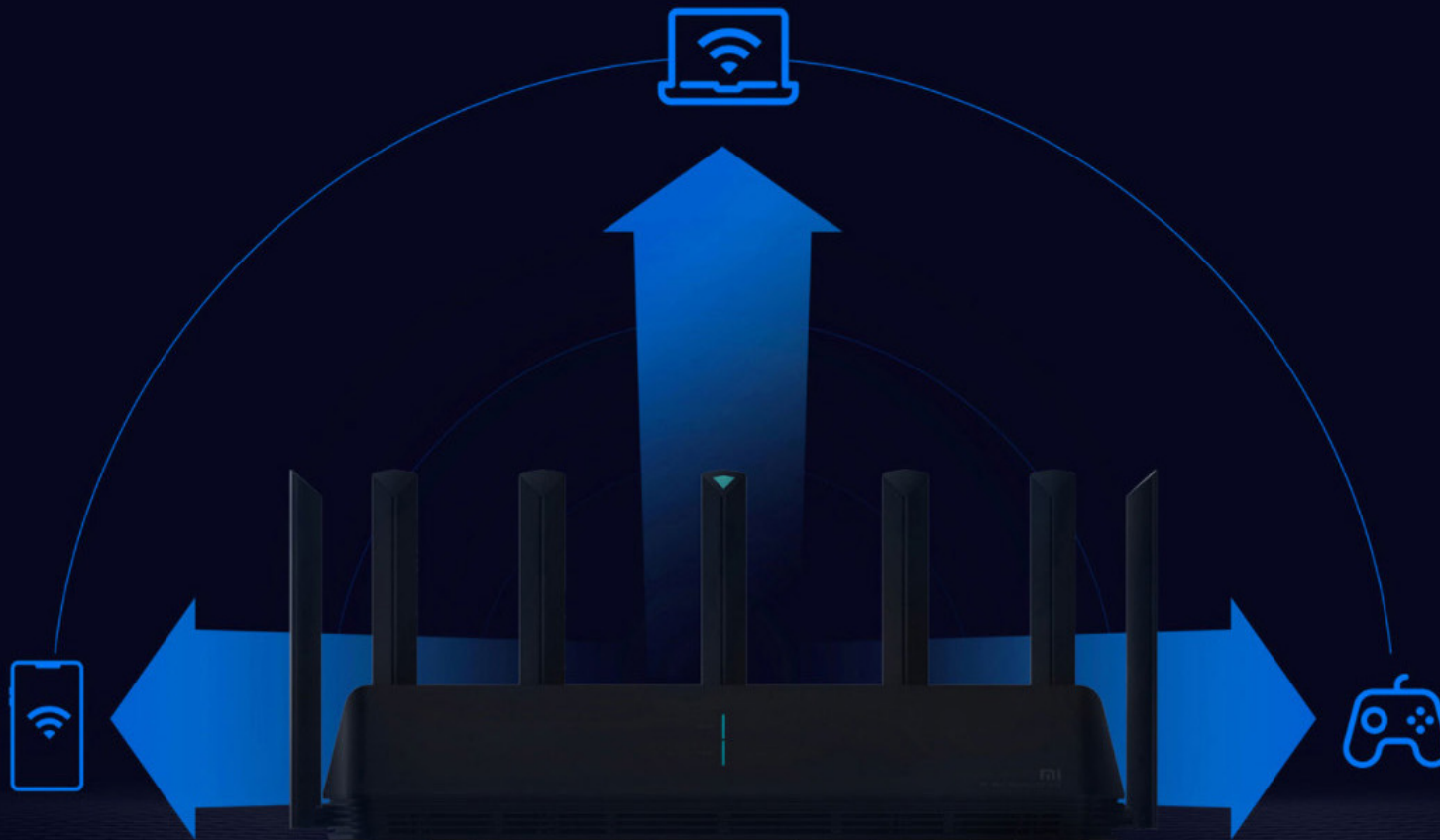
*This feature requires end devices to support OFDMA

*Theoretical data from Qualcomm, where eight end devices are connected

Supports multiple mesh networking* Wi-Fi 6 throughout the house

Enjoy high-speed Wi-Fi 6 throughout the house

Instead of dealing with dead spots from a single router, multiple mesh groups* can easily handle all kinds of complex home layouts to seamlessly cover the house. Plus, you can enjoy high-speed Wi-Fi 6 everywhere you go with support for the 802.11k/v protocol. Actual experience depends on the actual environment and user end device capability.

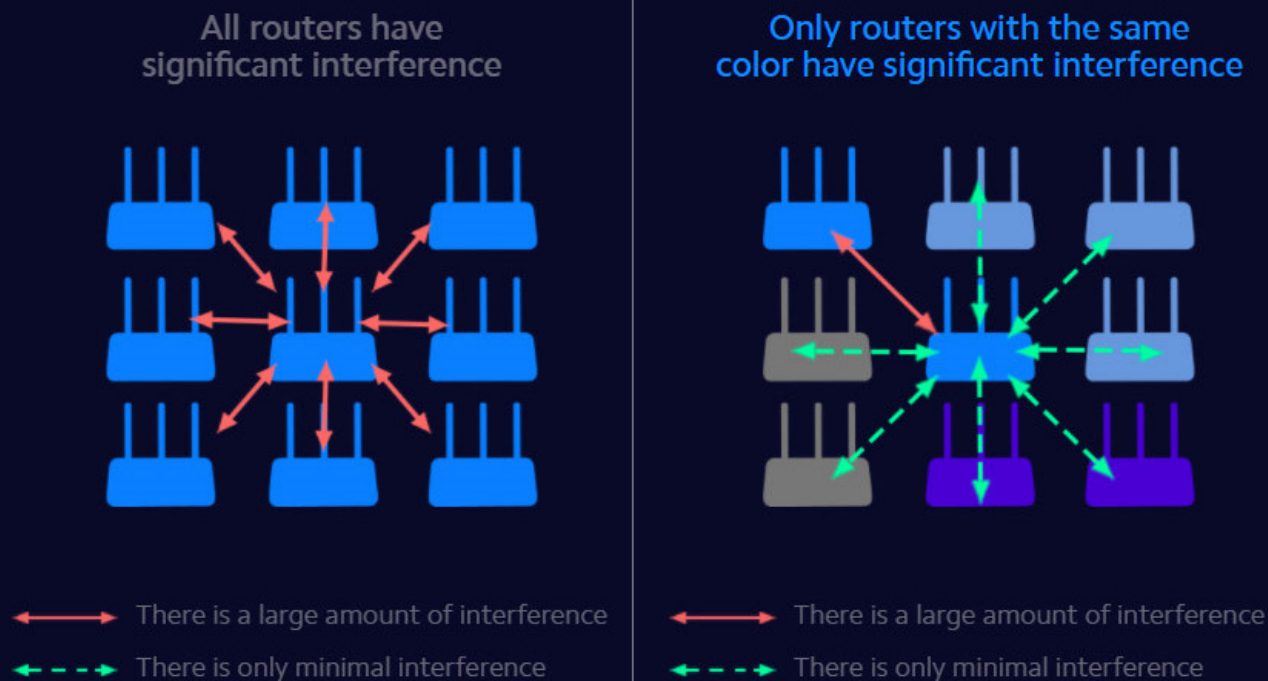


Note: The router will support Mesh functions within 2020 through an OTA update.

Security: Access control (blacklist, whitelist), guest network, DoS, SPI firewall, IP and MAC address binding, IP and MAC filtering

BSS coloring technology majorly boosts the ability to withstand Wi-Fi interference in neighboring homes

The popularity of routers has led to increased Wi-Fi interference in our homes. BSS coloring technology allows routers to "color" their Wi-Fi, using reasonable algorithm optimization to reduce interference between different colored Wi-Fi, resulting in improved overall communication efficiency and maximum utilization of network resources.



*The above instructions are for informational purposes only,
in accordance with information provided by the Wi-Fi Alliance, and this feature requires that all devices in your network support BSS coloring

WPA3 secure encryption protocol that offers data security in your home network

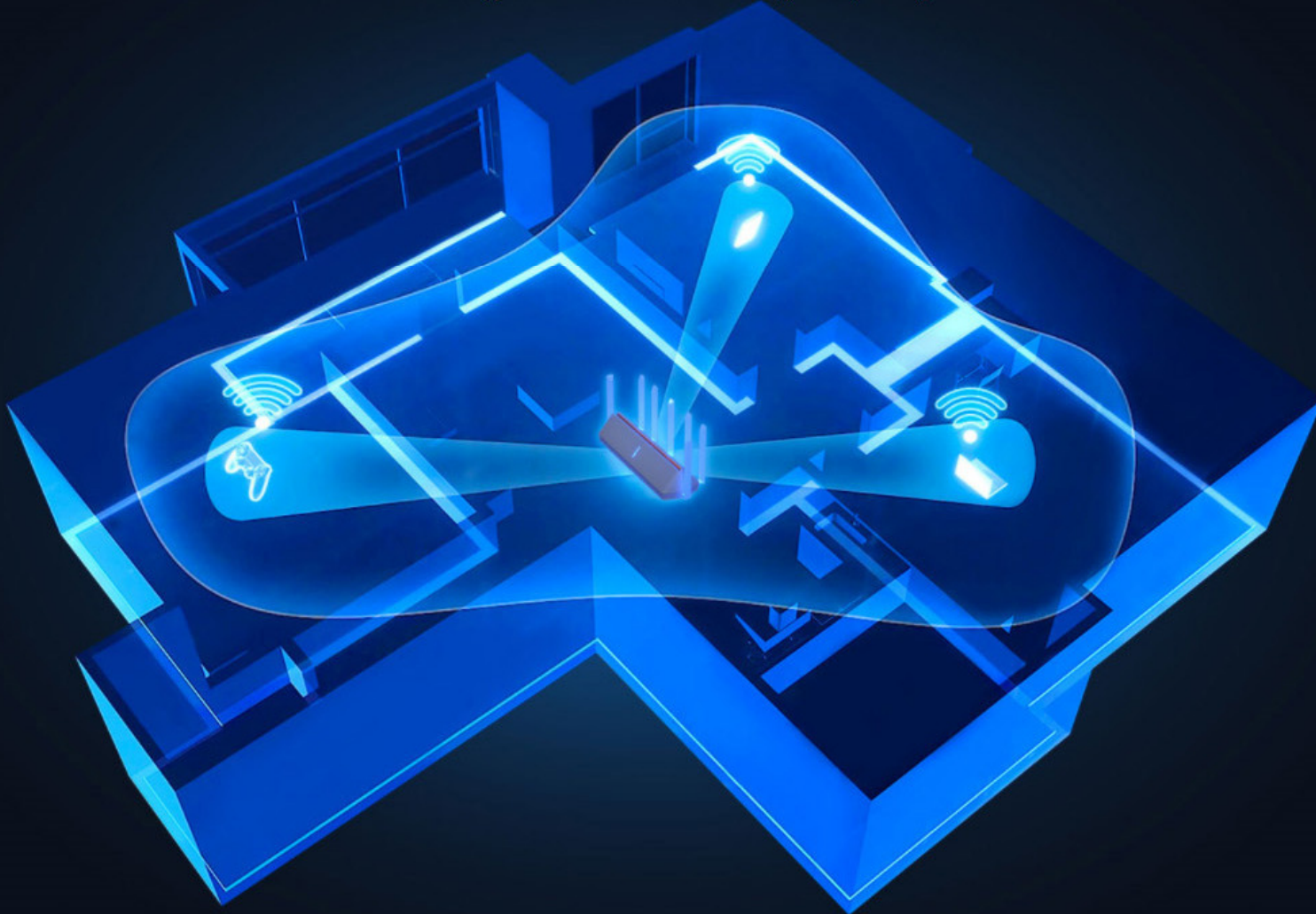
WPA3 is the latest Wi-Fi security standard that introduces more sophisticated computer authentication algorithms, making it much more difficult to infiltrate the network and keeping user data secure.



*This technology requires that the end device supports WPA3.

Supports beamforming technology for directional enhancement signals

Beamforming automatically detects the location of devices such as mobile phones and computers in the network, enhancing the signal in that location and providing effective Wi-Fi coverage over a wide range and with a stable signal quality.



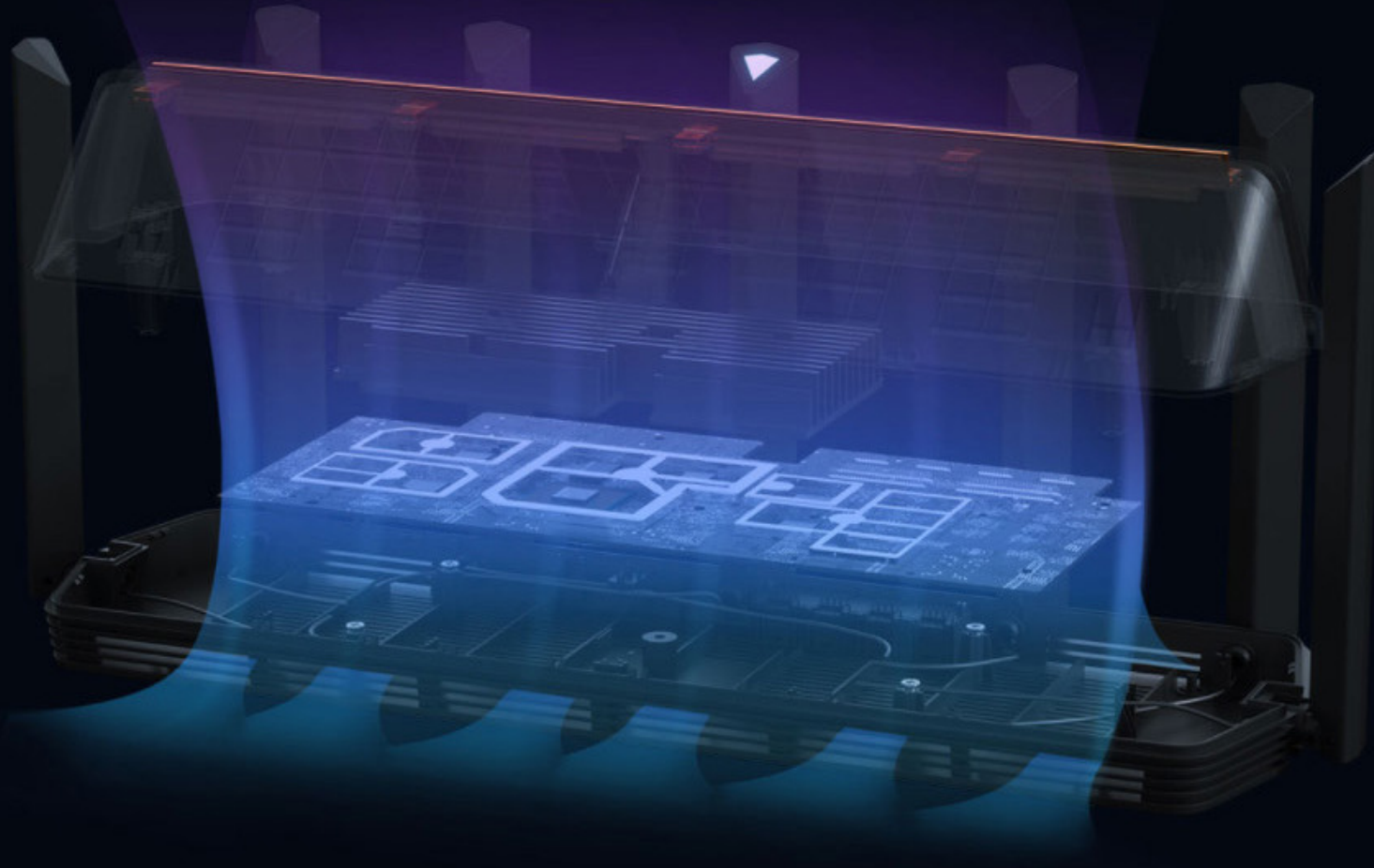
Combined dual bands under one network name, so there's no longer any confusion over which one to connect to

The Mi AIoT Router AX3600 supports dual-band integration, combining the 2.4 GHz and 5 GHz bands into a single Wi-Fi name. Dual-band terminals can choose the appropriate band access according to the current environment, so you don't have to worry about which Wi-Fi to connect to.



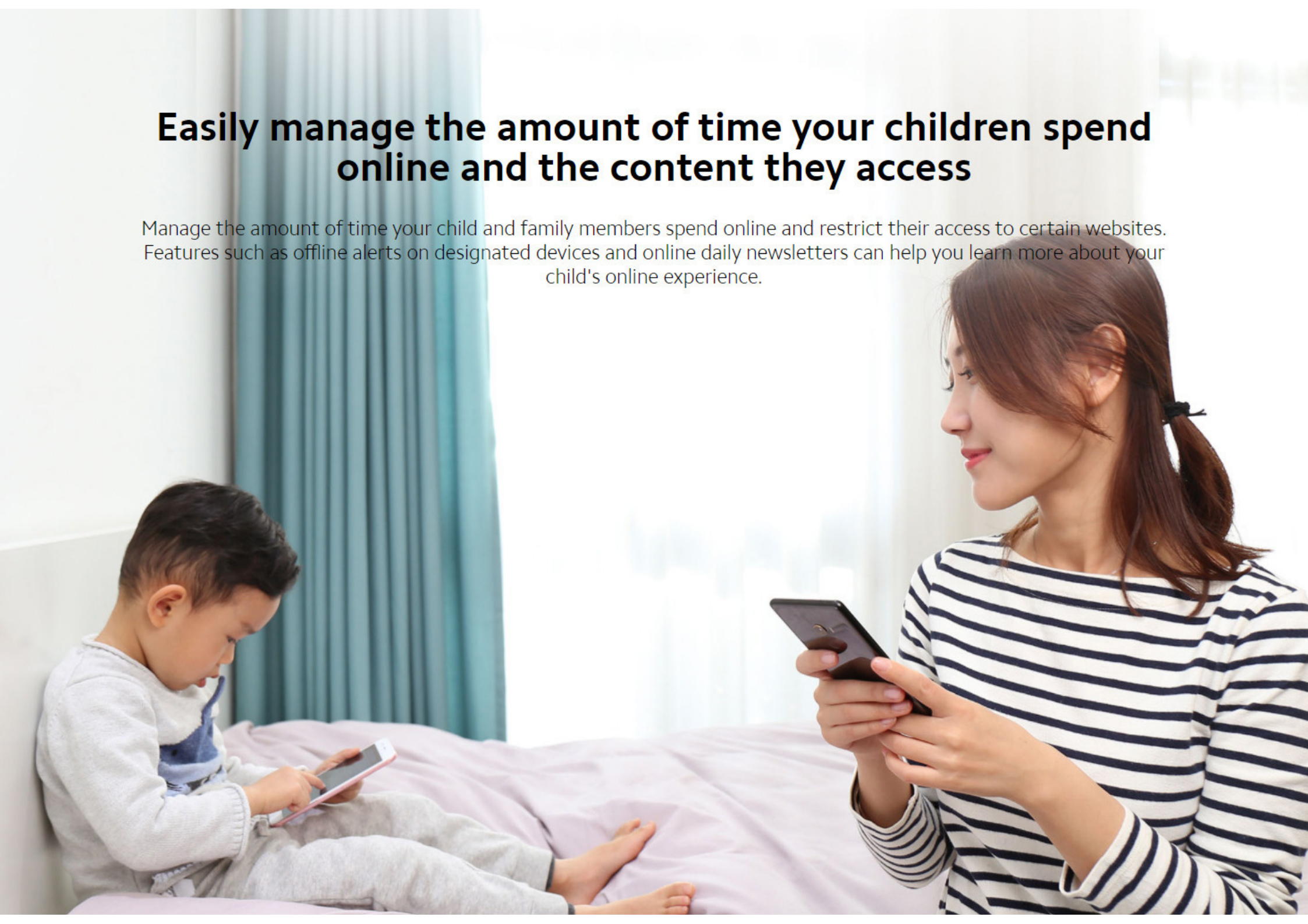
High heat dissipation for stable operation

Large aluminum alloy heat sinks and high thermal conductivity adhesives are used to cool the router, with cooling vents on the top, bottom and side of the body. A metal piece is installed on the top of the triangular-shaped body to accelerate the heat transfer from inside to outside, providing stable thermal support for high-speed router operation.



Easily manage the amount of time your children spend online and the content they access

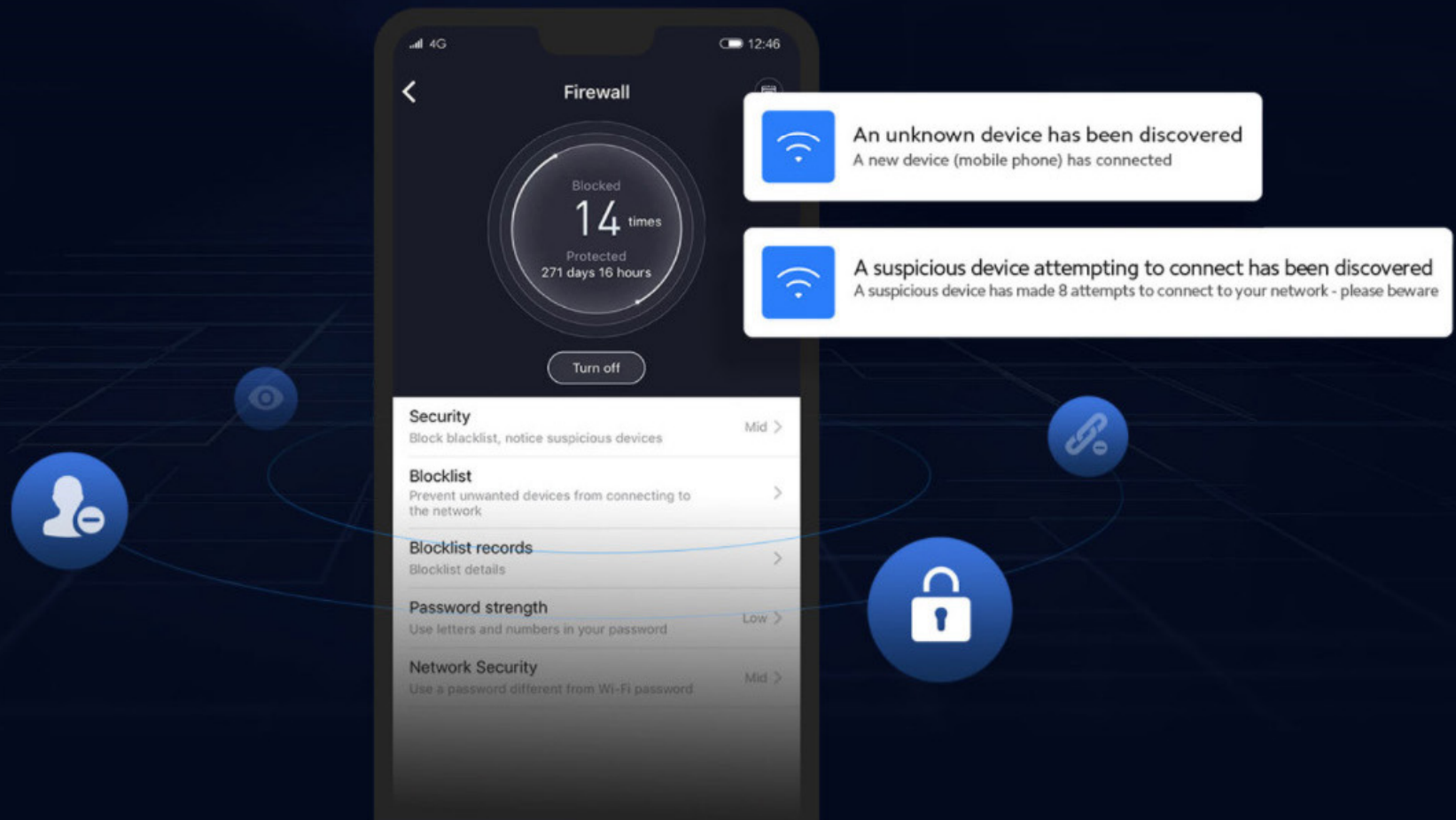
Manage the amount of time your child and family members spend online and restrict their access to certain websites. Features such as offline alerts on designated devices and online daily newsletters can help you learn more about your child's online experience.

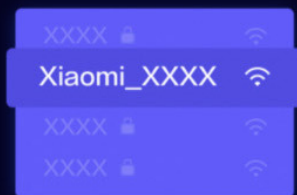


Receive a phone alert when unauthorized users access your Wi-Fi* and block them instantly

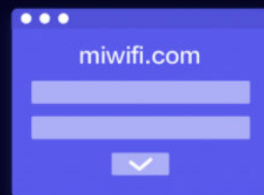
When an unknown device uses the Wi-Fi without permission, the Xiaomi Wi-Fi app can send out a notification to inform the user that a new device has connected. If a suspicious device tries to join the network, depending on the security level, the device will be automatically blocked from connecting, or you will be prompted to block the device with one push of a button.

*Turn on by setting different security levels for unauthorized access prevention





① Search and connect to the "Xiaomi_XXXX" wireless network without a password



② Go to miwifi.com or 192.168.31.1 and enter the broadband account information to complete the configuration

Internet settings that moms and dads can handle

The Internet settings are quick, easy, and simple enough for even parents to understand!
For further details, please refer to the Mi AIoT Router AX3600 User Manual

Rigorous testing in the pursuit of excellence

Power stability tests:

Over 220,000 test cycles

(4 scenarios, cumulative number of 20 sample devices being powered on and off)

Hardware structural reliability testing:

Over 54 test cycles

(drop test, impact test, vibration test)

Extreme environment testing:

Over 1000 hours

(6 scenarios, 4 cumulative prototype tests)

Memory stress testing:

Over 180,000 test cycles

(Cumulative number of read and write operations on 20 sample devices)

Testing of multiple simultaneous device connections:

248 devices

(Integrated access values in the laboratory environment)

Flash memory device reliability testing:

Over 100,000 test cycles

(Flash continuous read/write tests)

*The above data is from the results found by the Xiaomi Laboratory

Collaborations with authoritative international test instrument manufacturers ensure router stability

In cooperation with authoritative international test instrument manufacturers such as Spirent and Ixia, we conduct large-scale tests simulating scenarios in the home and router performance under extreme conditions to ensure that the router is able to operate stably under various conditions.

