

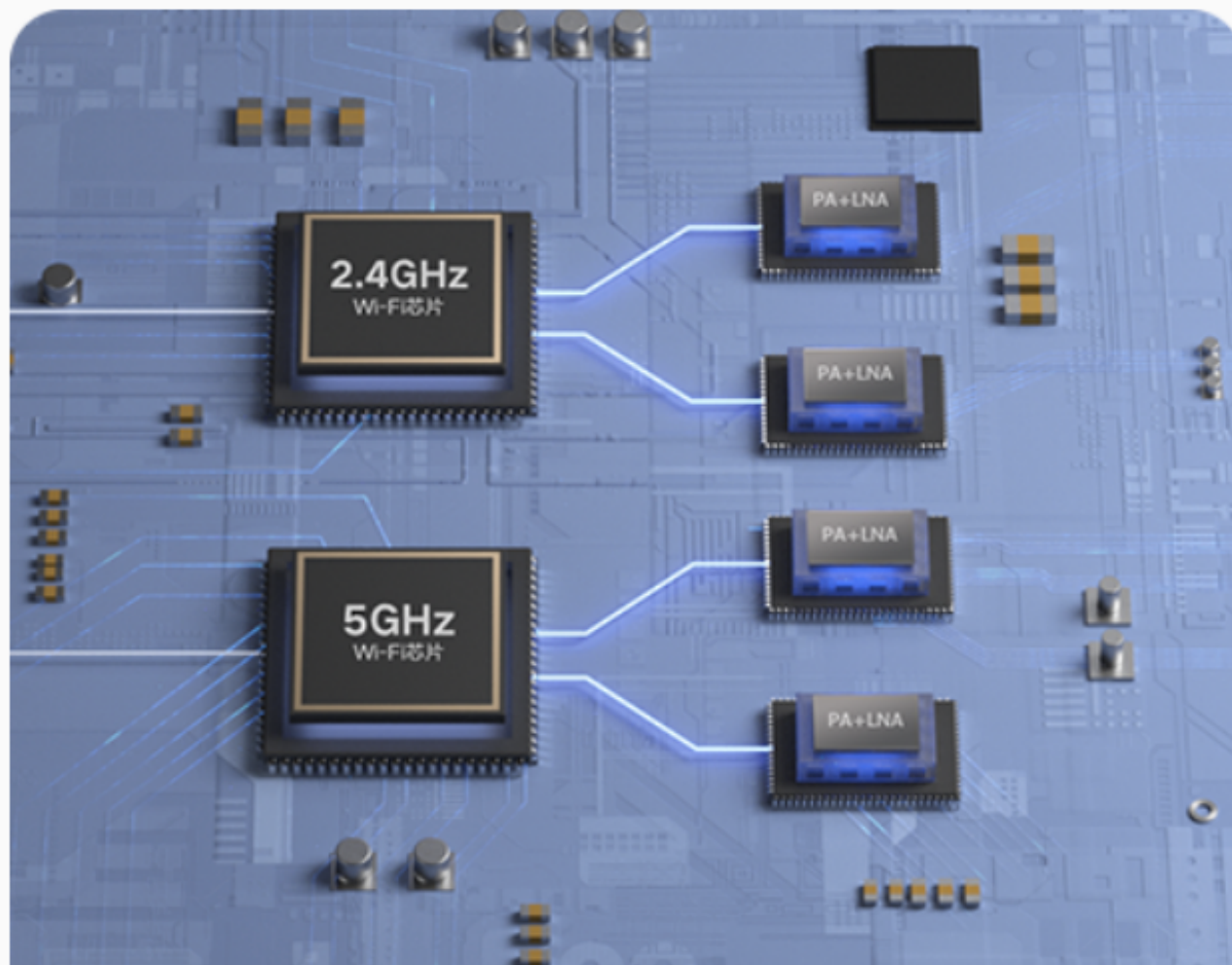
Mi Router AX1800

5-core WiFi6, now that's fast



Qualcomm 5-core chipset with powerful enterprise-class performance

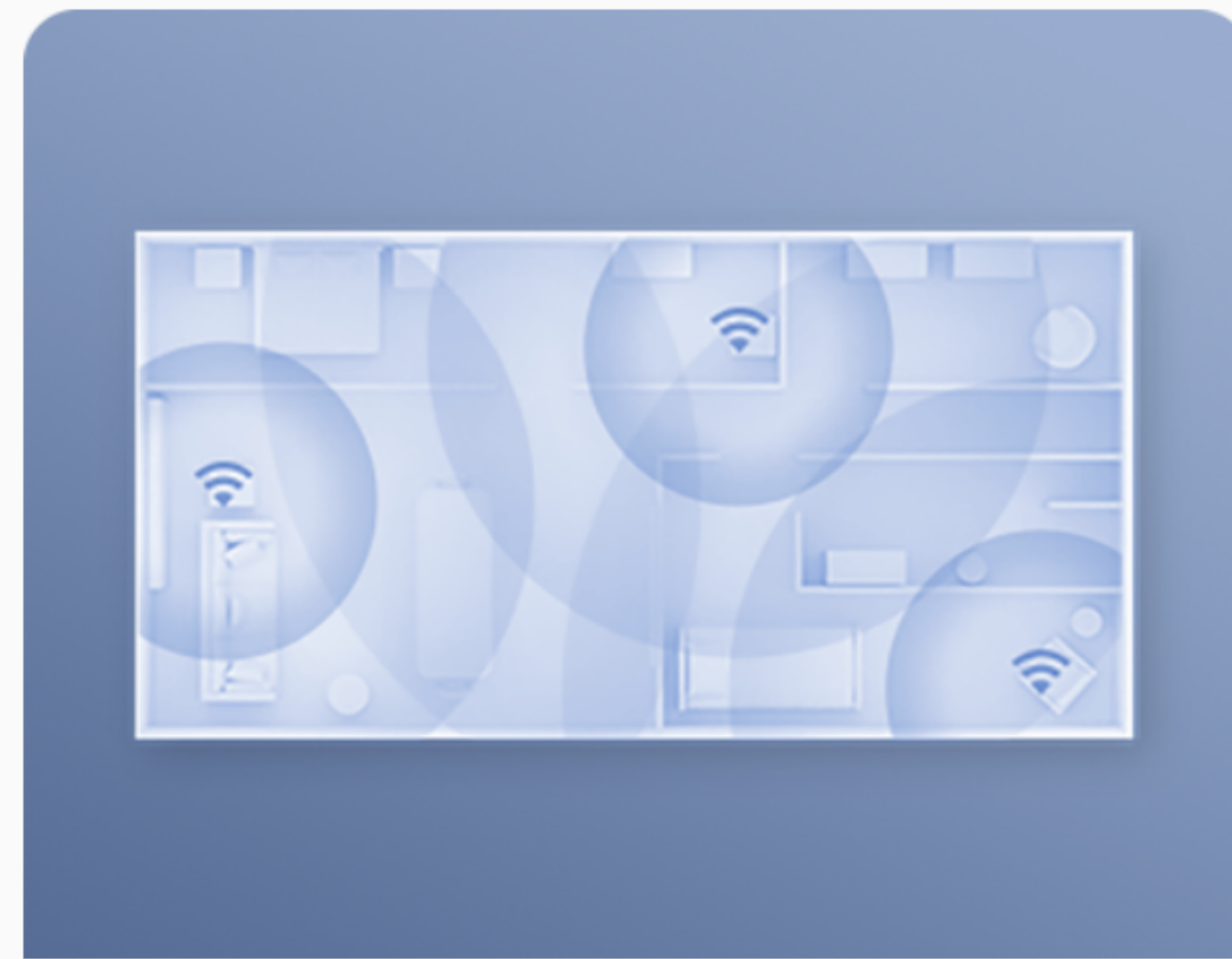
Powerful quad-core CPU, single-core NPU hardware acceleration



4-way independent signal amplifier



Large 256 MB memory



Mesh networking*



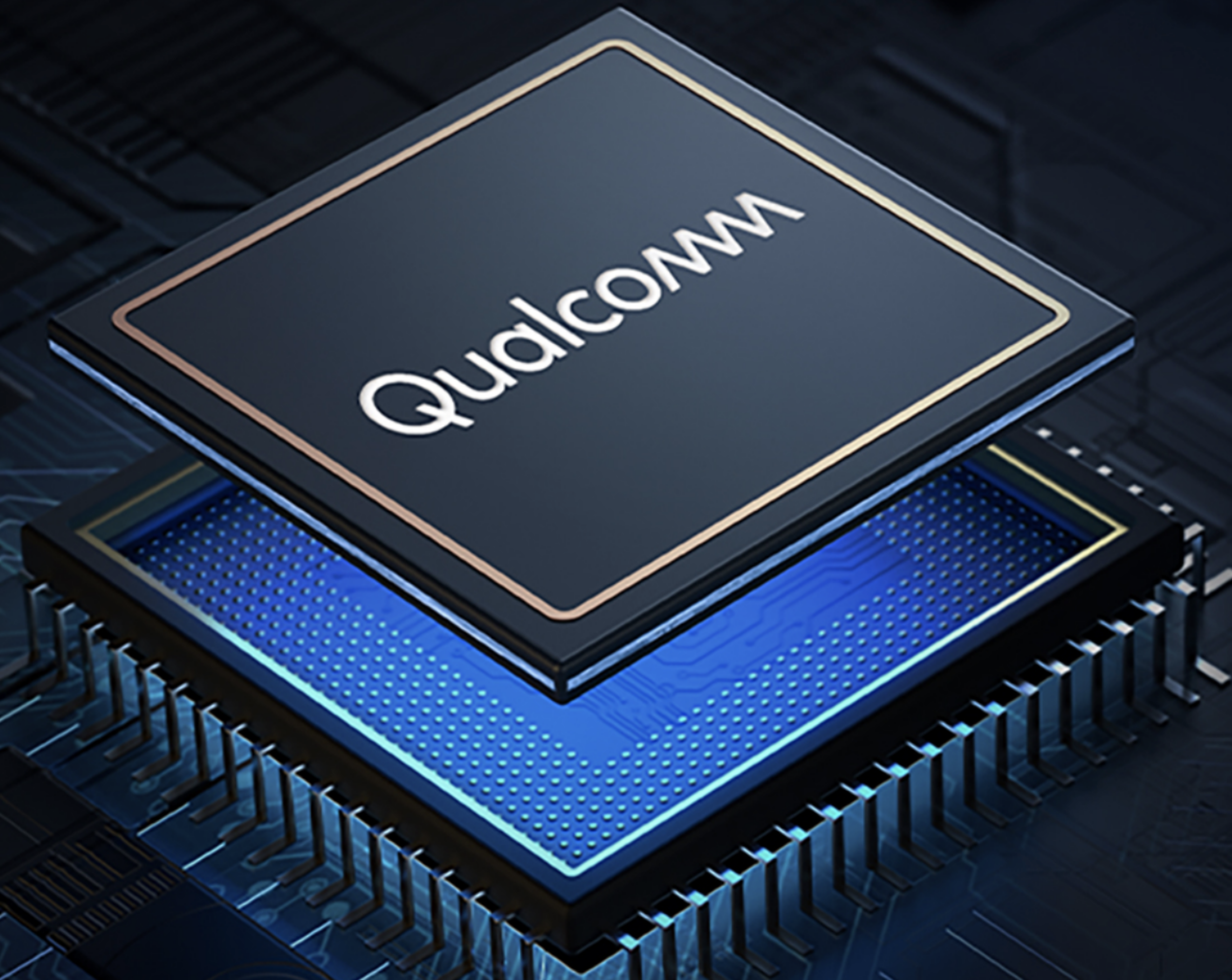
Fast WiFi6



Optimized for Mi Smart Home

*For details, see the appropriate sections below

**True stability
means taking every moment in stride**



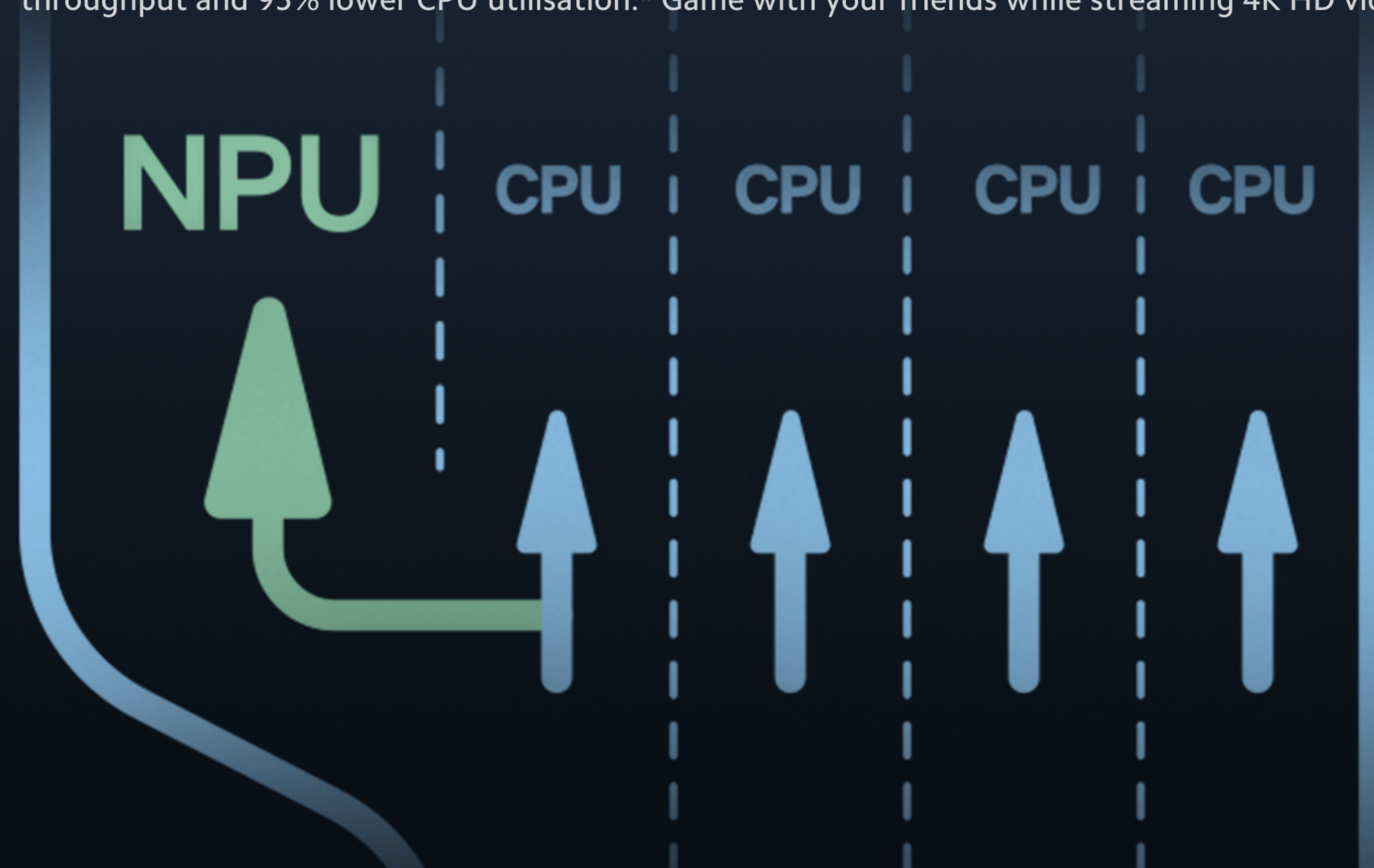
**Qualcomm 5-core chipset
Home router with powerful
enterprise-class performance
Always stable for ease of
mind online**

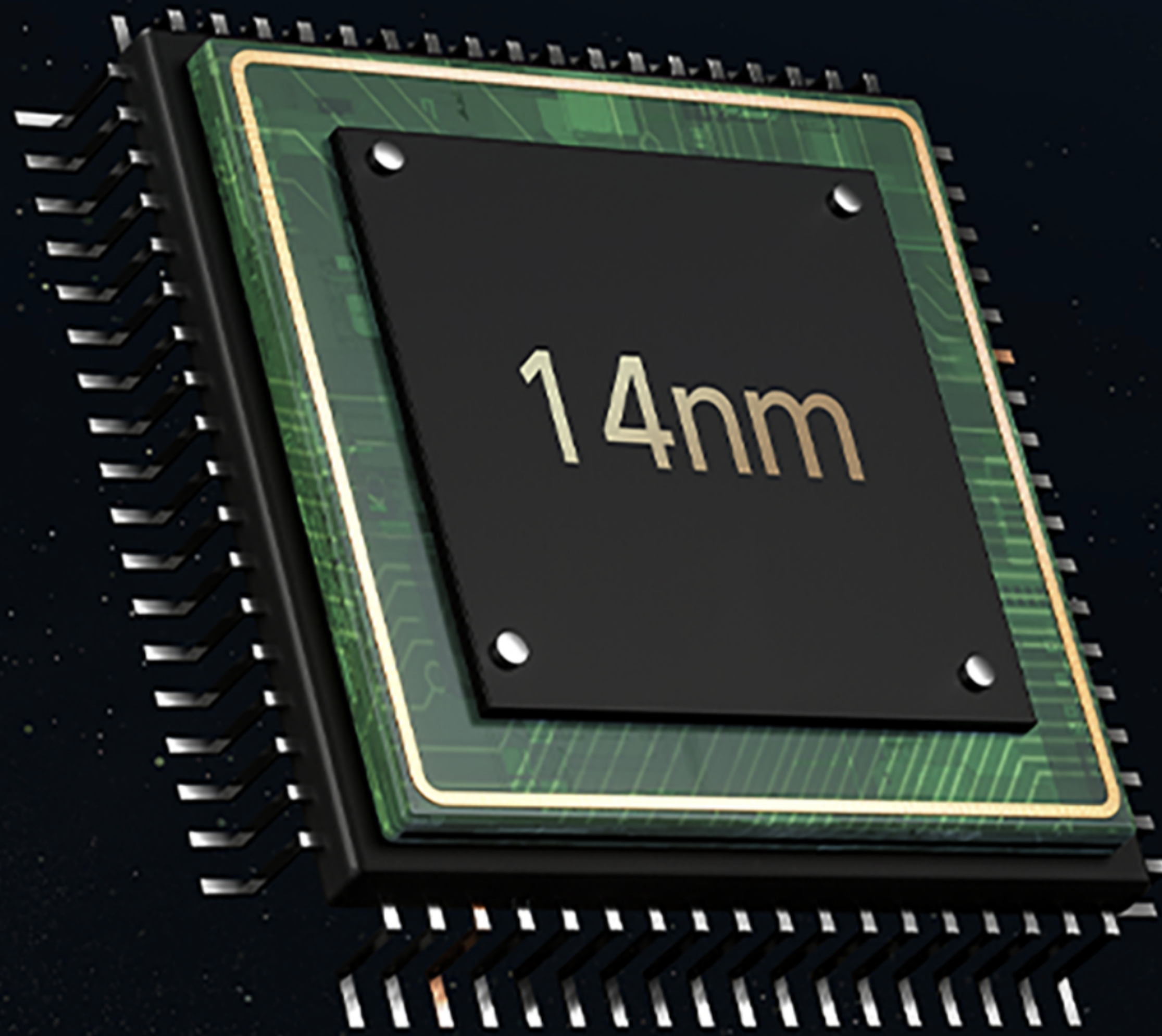
Quad-core 64-bit A53 1.2 GHz CPU+ single-core 1.5 GHz NPU module, 130% more computing power *, CPU utilisation less than 10% with 128 connected devices, more powerful data processing, say goodbye to dropping connections and freezing

Independent Network Acceleration Engine

Hardware-level acceleration with lower latency

Single-core 1.5 GHz NPU (network acceleration engine), designed to process network data traffic with up to 21% higher throughput and 95% lower CPU utilisation.* Game with your friends while streaming 4K HD video.





**Processor manufactured using
14 nm process technology
Massive power in a small
package
Indispensable in a high-end
WiFi6 router with low power
consumption**

It is easier to integrate, consumes less power, generates 20% less heat,* and is more stable in long-term use than the 28 nm chips used in the industry

**Large 256 MB memory
Stably connects to 128 devices*
Optimized for Mi Smart Home
No freezing even with multiple
connections**

You can configure a Mi smart device with the Mi Home/Xiaomi Home app when you connect it to the Internet for the first time, so there's no need to manually enter a password



*128 devices is the combined total connections for 2.4G/5G/LAN under laboratory conditions.

Blazing WiFi in the true sense is more than just faster Internet



52% faster theoretical rates
Full Gigabit Ethernet ports
Enjoy fast WiFi6

Up to 52% faster wireless speeds than mainstream AC1200 routers, and up to 1775 Mbps* dual-band concurrent wireless speeds with full Gigabit Ethernet ports, making full use of every megabit of bandwidth.

Mi Router AX1800



Mainstream AC1200



**Relative
increase**

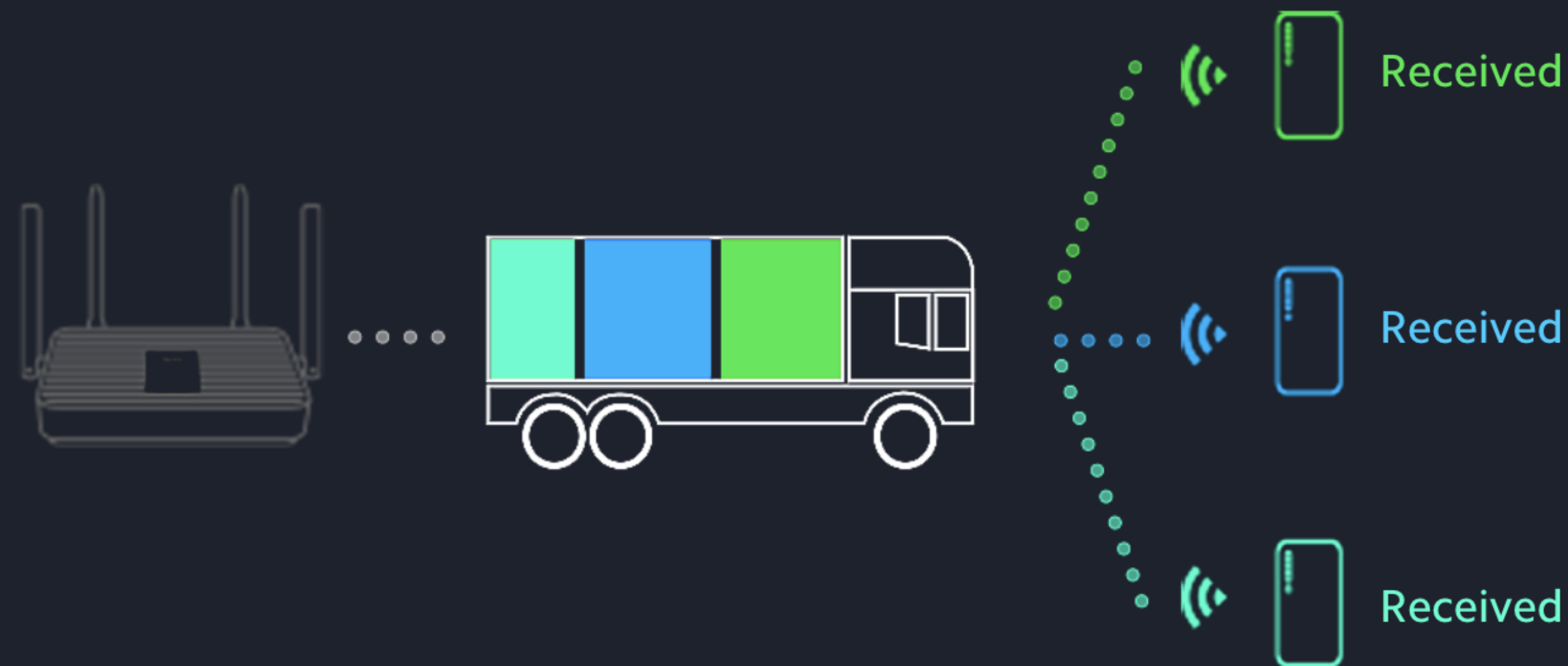
52%

*1775 Mbps is the theoretical maximum wireless signal rates for concurrent 2.4 GHz and 5 GHz dual-band; the actual rate will depend on the environment

WiFi6 core technology OFDMA efficient transmission Reduced network congestion Lower latency and smoother when multiple devices are online

When multiple devices need to transmit data, OFDMA technology allows the router to transmit data to eight devices in one go, reducing network latency by up to 66%.*

WiFi6 router that supports OFDMA
Able to transmit multiple users' data
simultaneously



Traditional WiFi5 router
Able to transmit one user's data at a time



**Four high-gain omni-directional
antennas**

Precise debugging with a good layout

Wider coverage

Longer transmission distance

4 external 5 dBi high-gain omni-directional antennas. Supports LDPC error correction algorithms to significantly enhance anti-interference capabilities and signal coverage for data transmission.





Supports Mesh networking Powerful interconnection of multiple routers The whole house is seamlessly covered with high-speed WiFi6

5 GHz WiFi or a network cable can be used for networking; the maximum theoretical transfer rate is 1201 Mbps*, and multiple routers can connect in star or chain formation, or as a mixed wired/wireless network. If there are any changes to routing devices in the network, you can manually re-network to ensure a stable network experience

Supports multiple Mi Router AX1800 networks. Supports up to four router networks"

*1201 Mbps is the maximum transfer rate for 5 GHz WiFi wireless networking.

*This feature is to be upgraded by July 14, 2020 to support up to four router networks

*The terminal must support the 802.11k/v protocol. The actual user experience depends on the terminal configuration and the actual environment

Six major technical supports



Beamforming

Directional enhanced signal for greater coverage



BSS Colouring

Dramatically improved anti-interference capabilities



Two bands integrated into one band

Automatically selects the best frequency



WPA3

Next-generation WiFi security standards



MU-MIMO

Smoother Internet access for multiple users



IPv6

Network protocols better suited for the 5G era



Internet settings that both parents can configure

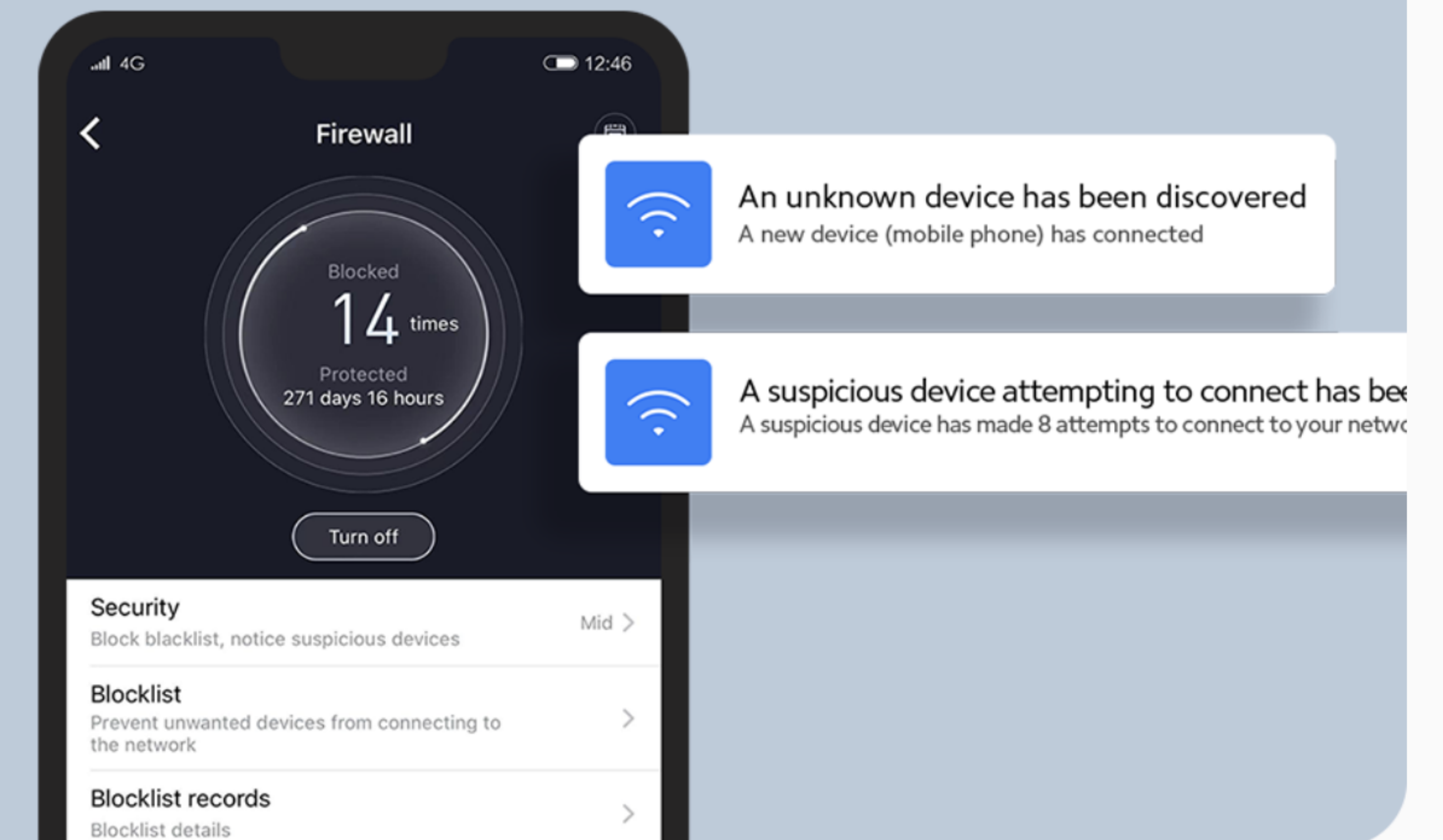
Quick and easy Internet settings
Simple enough for parents to use

Real-time notifications of unauthorized access to the network

Found out when intruders access your network

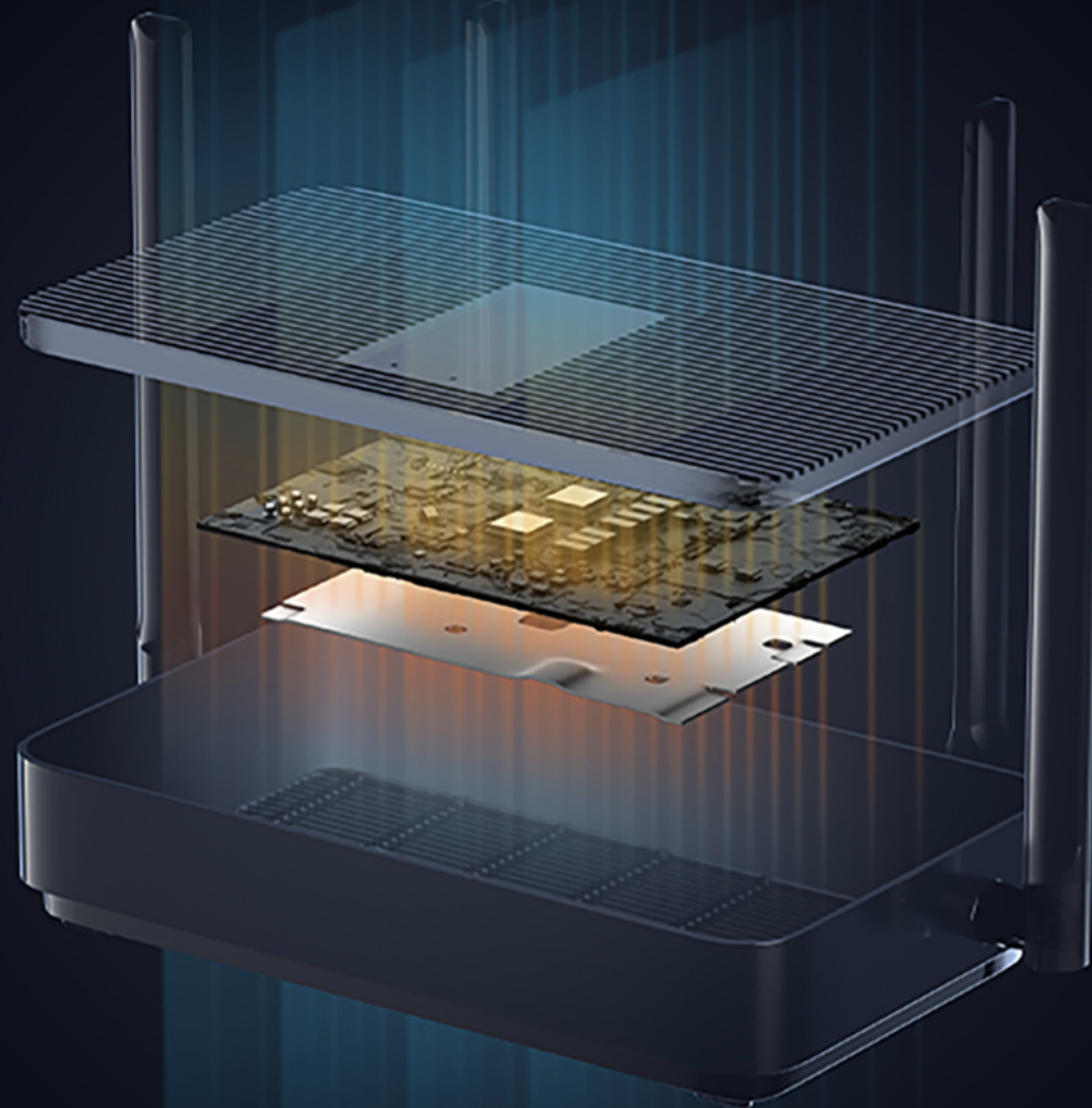
It can send you notifications

Supports one-touch blacklisting from your phone



Powerful cooling for stable operation at all times

Large aluminium heat sinks and highly conductive thermal paste are used, and the upper and lower panels have cooling channels for good air convection, ensuring reliable, long-term operation of the machine.



Rigorous testing in pursuit of excellence in quality

We work with renowned test equipment manufacturers, such as Spirent and Ixia, to simulate in large-scale tests the extreme conditions various household scenarios to ensure that the router can operate stably under a variety of conditions.

Power supply stability test

≥ 220,000 times

Four scenarios and 20 prototypes' cumulative times powered on and off

Hardware structural reliability testing

≥ 54 times

Drop test, impact test, vibration test

Flash memory reliability test

≥ 100,000 times

Flash continuous read and write test

Memory stress test

≥ 180,000 times

20 prototypes' cumulative number of read and write

Testing multiple devices online at the same time

128 devices

Combined access under laboratory conditions

Hostile environmental test

≥ 1000 hours

Six scenarios and four prototypes' cumulative tests