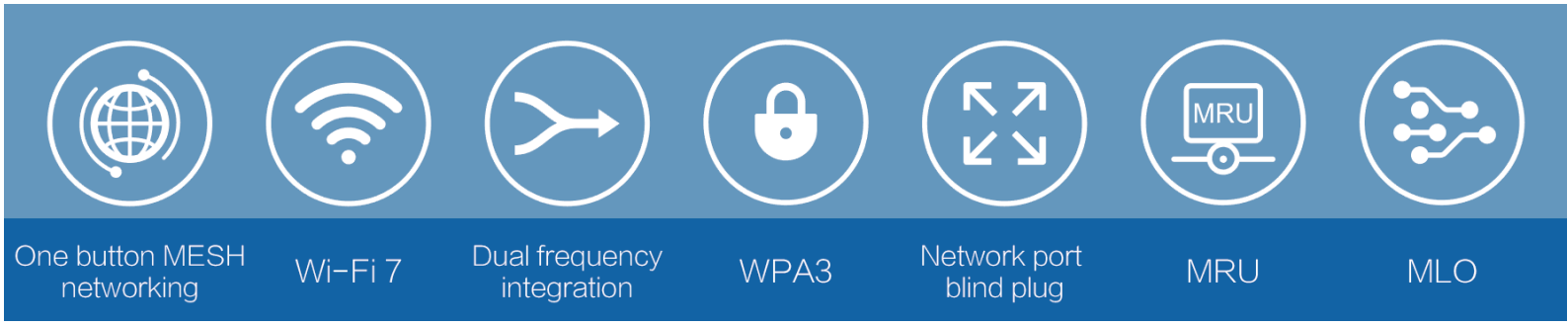
AForce BE3600H

Dual-band Wi-Fi7 Wireless Router

A new generation of high-speed Wi-Fi7 dual band home router, the 5GHz and 2.4GHz band supports the 2X2 MIMO. Support the blind plug of the network port, without the need to distinguish the WAN/LAN; Routing/bridging (wired relay)/wireless relay, flexible switching of three mode.



Product Characteristics

Our cutting-edge innovations enable new advanced use cases

Significant capacity increases

Our Wi-Fi7 Router brings extreme data speeds, lower latencies, and increased network capacity thanks to new capabilities designed to support large numbers of users and devices in bandwidth-intensive environments.

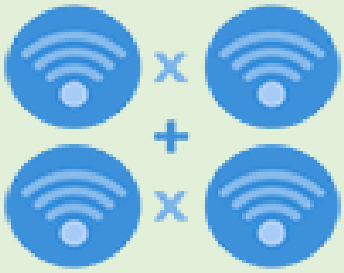
Incredible new experiences

Our Wi-Fi7 Router delivers on the promise of advanced experiences, including lower-latency XR designed for social gaming and advanced video conferencing and casting for virtual work and education applications.

New technology of Wi-Fi7

OFDMA and MRU

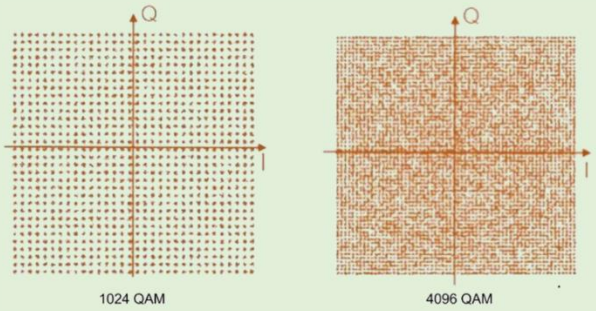
The RU (Resource Unit) technology of Wi-Fi6 solves the resource waste problem in traditional solutions where a channel only sends information to one user, and can simultaneously send information to multiple



MLO

Wi-Fi7 introduces several multi-link options that can significantly increase throughput and reduce latency. The most powerful multi-link alternative is High-Band Simultaneous Multi-Link, which uses two Wi-Fi

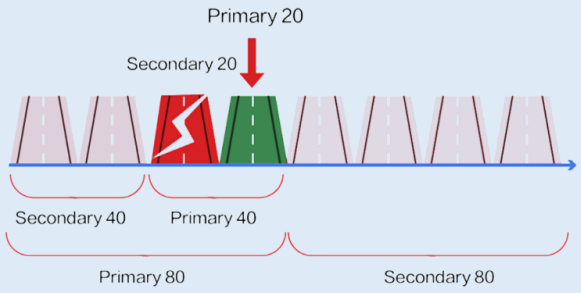
users. But in Wi-Fi6, a user can only use one RU. The MRU technology of Wi-Fi7 allows a user to allocate multiple RUs, further improving channel resource utilization, increasing speed, and reducing latency.



Modulation Evolution

Wi-Fi7 adopts an advanced modulation scheme of 4K QAM. Wi-Fi 6 supports up to 1024 QAMs. Wi-Fi7 supports 4096 QAM. Each QAM modulated point in Wi-Fi7 can carry 2 more bits of information than Wi-Fi6, which increases the speed by 20%.

radios operating simultaneously in the high bands, creating one aggregated data pipe to deliver the optimal performance, even in congested areas.

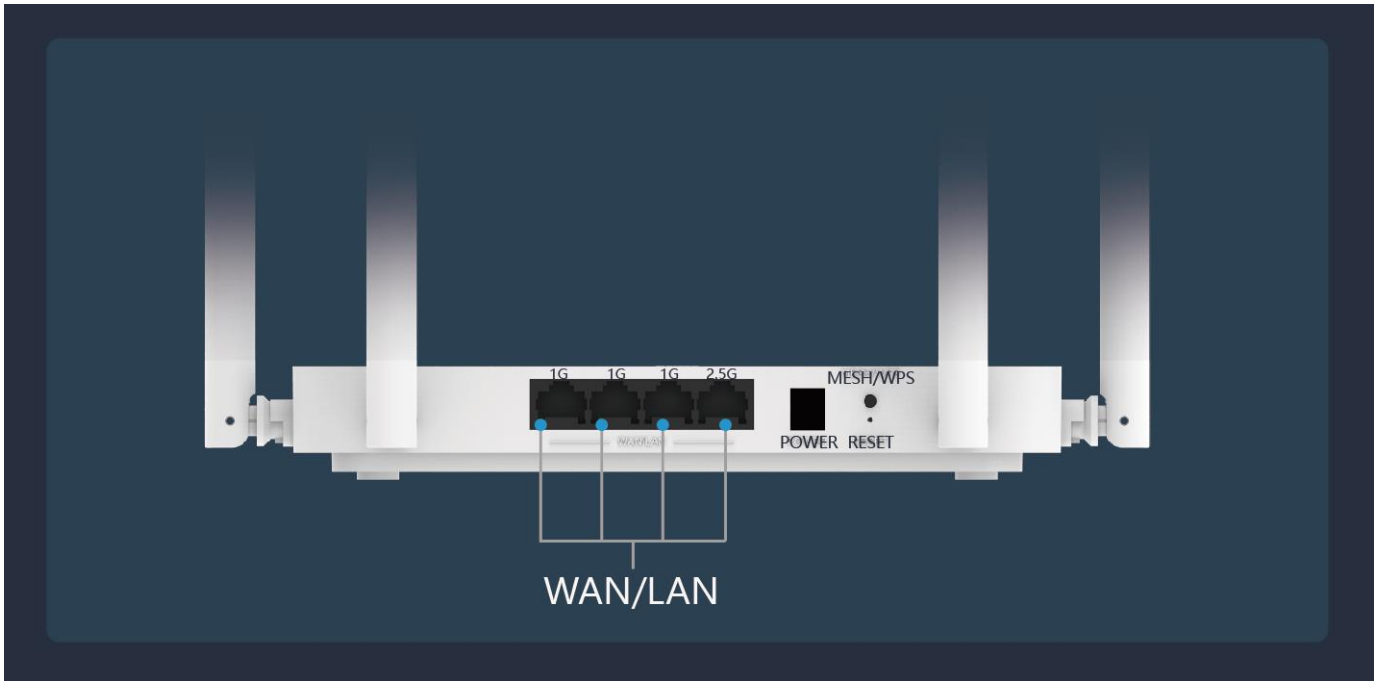


Flexible Channel Utilization

When Wi-Fi6 transmits information, once the secondary channel (Secondary20) is interfered by other signals, Secondary40 cannot transmit information, resulting in only Primary20 transmitting information remaining in the 160MHz channel. The Puncturing technology of Wi-Fi7 solves this problem. If the Secondary20 channel is affected by other signal interference, directly mask this Secondary20 channel. Then the remaining 140MHz channels continue to be bundled together to transmit information, greatly improving channel utilization.

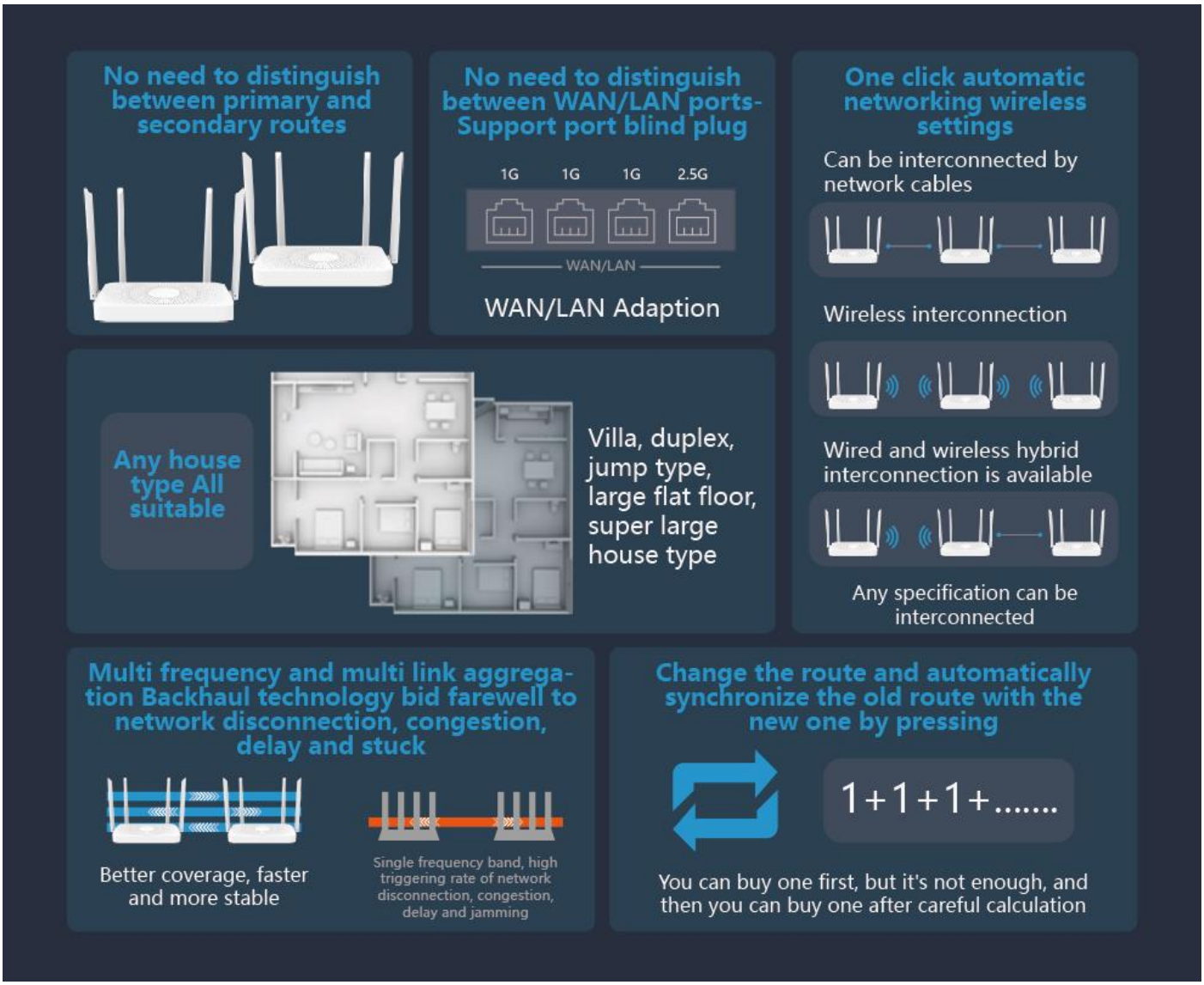
Customized WAN/LAN, you can access the Internet at any network port

There is no need to distinguish the WAN/LAN. It supports blind plugging of the network interface. Plug the incoming network cable into any network interface of any router to start configuring the Internet.



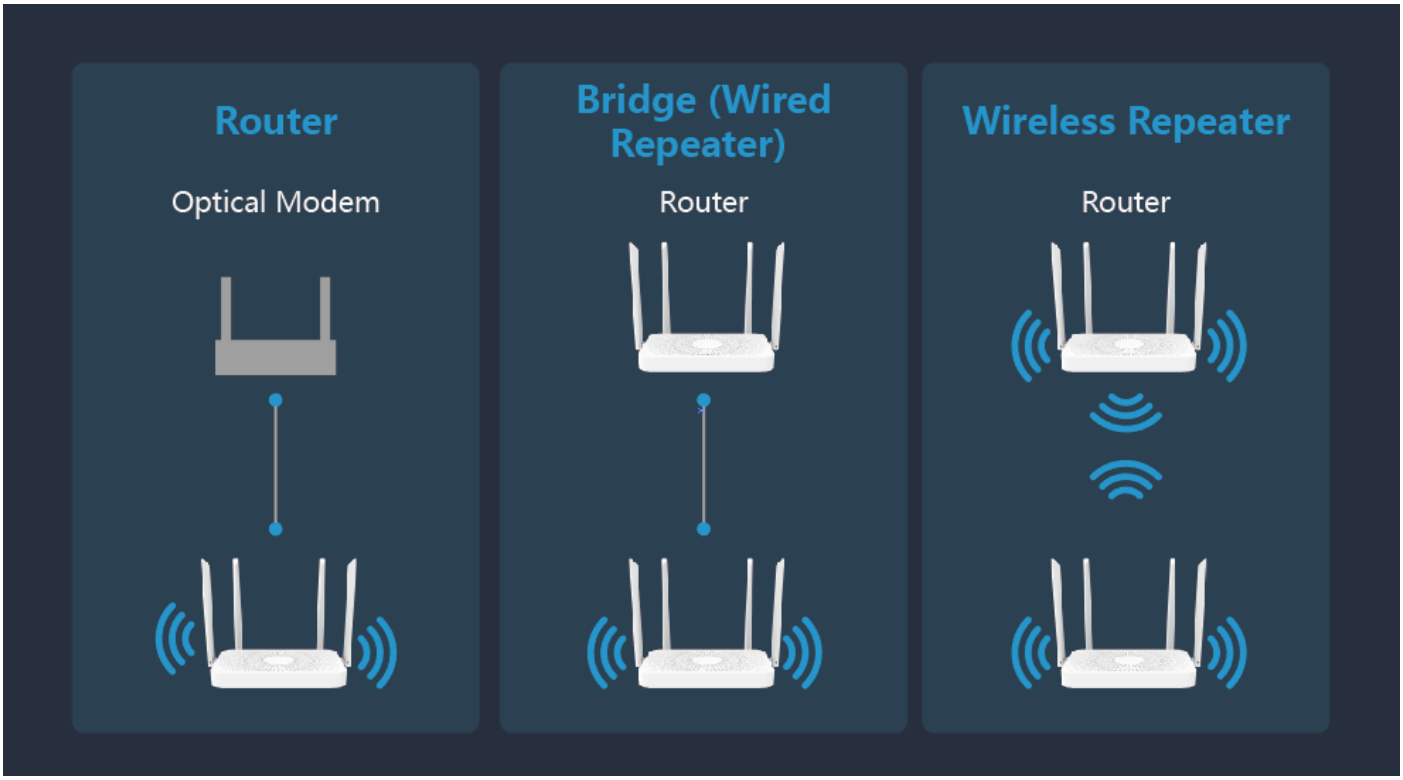
The networking is not complicated, and the Wi-Fi coverage is as large as the home

No matter how big the house is and how complex the partition is, press the "MESH/WPS" button on the router to achieve one button interconnection, easy networking, and seamless expansion of Wi-Fi coverage. No professional knowledge and configuration are required.



Router/Bridge (Wired Repeater)/Wireless Repeater, flexible switching of three modes

It supports three modes: Router, Bridge (Wired Repeater) and Wireless Repeater. Users can choose the corresponding mode according to different Internet access needs. Through the simple and understandable software interface, one button flexible switching can meet the networking requirements of different scenarios.



Product Specifications

Hardware Specifications

CPU	IPQ5312
Memory	256MB DDR，128MB Flash
5G Wi-Fi chip	QCN6402
Size	200x125x30mm
Wireless Rate	5G：2x2 2882Mbps 2.4G：2x2 688Mbps
Maximum Transmit Power(Single)	5G：22dBm@HE20/EHT20 MCS0 2.4G：21dBm@HT20 MCS0
Maximum Power Consumption	12W
Antenna	4 x 5dBi
Antenna Beam Width	360°
Ethernet Interface	1 x 2.5GE+3 x GE The WAN/LAN port is adaptive, and the home network cable can be plugged into any network port to access the Internet.
Buttons	RESET MESH / WPS
LED	One lamp position, three colors (red, green, blue)
Power Supply	DC 12V/1A
Way to Install	desktop placement
Working Temperature	-5℃~40℃
Storage Temperature	-40℃~70℃
Working Humidity	10%~95%RH Non-condensation
Levels of Protection	IP30

Software Specifications

Work Protocol	802.11be/ax/ac/n/a/g/b
Operating mode	Routing (DHCP / PPPoE / Static IP), Bridge, Wireless Relay
IPv6	Support for the IPv4 / IPv6 dual stack
Network Port Characteristics	Blind network port plug, WAN / LAN customization, IPTV port setting
MESH networking	Support Easy MESH
Dual Frequency Optimization	Support intelligent selection of 2.4GHz and 5GHz frequency band Support dual-frequency integration
Wi-Fi configuration	Support Visitor Wi-Fi, Wireless Timing Switch
Wi-Fi Power Regulation	Three modes are supported: Through wall, Standard and Energy-saving
Internet Access Restrictions	Parental Control, QoS, and User Speed Limit
Equipment Safety	Support Black and White List, Wi-Fi Hidden, WPA3 Encryption Support DoS attack prevention, WAN side port closure, Firewall, DMZ, Virtual Server, Broadcast suppression, and WEB vulnerability protection
System Management	Wizard quick configuration WEB management Scheduled Restart System Log Restore Factory Settings Backup Restore Software upgrade

RF Specifications

	TX Power(Single)			Sensitivity		
	Date Rate	Avg. TX dBm	Tolerance dBm	Data Rate	Sensitivity dBm	Tolerance dBm
5G	VHT20 MCS0	22	+/-2	VHT20 MCS0	-94.5	+/-2
	VHT20 MCS7	18.5	+/-2	VHT20 MCS8	-76.0	+/-2
	VHT20 MCS9	18	+/-2	VHT20 MCS8	-70.5	+/-2
	VHT40 MCS0	21.5	+/-2	VHT40 MCS0	-91.5	+/-2
	VHT40 MCS7	18	+/-2	VHT40 MCS7	75.5	+/-2
	VHT40 MCS9	17.5	+/-2	VHT40 MCS9	-68.5	+/-2
	VHT80 MCS0	21	+/-2	VHT80 MCS0	-88.0	+/-2
	VHT80 MCS7	17.5	+/-2	VHT80 MCS7	72.5	+/-2
	VHT80 MCS9	17	+/-2	VHT80 MCS9	-64.5	+/-2
	VHT160 MCS0	20	+/-2	VHT160 MCS0	-85.0	+/-2
	VHT160 MCS7	16.5	+/-2	VHT160 MCS7	-67.0	+/-2
	VHT160 MCS9	16	+/-2	VHT160 MCS9	-62.5	+/-2
	HE20/EHT20 MCS0	22	+/-2	HE20/EHT20 MCS0	-94.0	+/-2
	HE20/EHT20 MCS7	18.5	+/-2	HE20/EHT20 MCS7	-74.5	+/-2
	HE20/EHT20 MCS9	18	+/-2	HE20/EHT20 MCS9	-68.5	+/-2
	HE20/EHT20 MCS13	16.5	+/-2	HE20/EHT20 MCS13	-58.0	+/-2
	HE40/EHT40 MCS0	21.5	+/-2	HE40/EHT40 MCS0	-91.0	+/-2
	HE40/EHT40 MCS7	18	+/-2	HE40/EHT40 MCS7	-72.5	+/-2
	HE40/EHT40 MCS9	17.5	+/-2	HE40/EHT40 MCS9	-66.5	+/-2
	HE40/EHT40 MCS13	16	+/-2	HE40/EHT40 MCS13	-55.5	+/-2
	HE80/EHT80 MCS0	21	+/-2	HE80/EHT80 MCS0	-88.0	+/-2
	HE80/EHT80 MCS7	17.5	+/-2	HE80/EHT80 MCS7	-69.0	+/-2
	HE80/EHT80 MCS9	17	+/-2	HE80/EHT80 MCS9	-63.5	+/-2
	HE80/EHT80 MCS13	15.5	+/-2	HE80/EHT80 MCS13	-52.5	+/-2
	HE80/EHT80 MCS0	20	+/-2	HE80/EHT80 MCS0	-85.0	+/-2
	HE80/EHT80 MCS7	16.5	+/-2	HE80/EHT80 MCS7	-66.5	+/-2
	HE80/EHT80 MCS9	16	+/-2	HE80/EHT80 MCS9	-60.5	+/-2
	HE80/EHT160 MCS13	14.5	+/-2	HE80/EHT160 MCS13	-49.5	+/-2
2.4G	HT20 MCS0	21	+/-2	HT20 MCS0	-96.0	+/-2
	VHT20 MCS9	17.5	+/-2	VHT20 MCS9	-71.0	+/-2
	VHT40 MCS9	17	+/-2	VHT40 MCS9	-68.0	+/-2
	HE20 MCS11	16.5	+/-2	HE20 MCS11	-65.5	+/-2
	HE40 MCS11	16	+/-2	HE40 MCS11	-62.5	+/-2
	EHT20 MCS11	16.5	+/-2	EHT20 MCS11	-65.5	+/-2
	EHT40 MCS11	16	+/-2	EHT40 MCS11	-62.5	+/-2

*This document is based on current information and some parts are subject to change and are subject to update without notice.