

H3C Magic NX54 Gigabit Dual Band Wi-Fi 6 Wireless Router

Overview

H3C Magic NX54 Gigabit Dual Band Wi-Fi 6 Router is a new product designed by New H3C Intelligence Terminal Co., Ltd. for users requiring high-quality networks. NX54 uses the latest wireless protocol technology of Wi-Fi 6 (802.11ax). The wireless rate of the integrated machine is 5,378 Mbps, with the wireless rate of 2.4 GHz frequency band increased to 574 Mbps and that of 5 GHz frequency band increased to 4,804 Mbps. It uses six built-in high gain antennas and six signal amplifier, and supports EasyMesh. With larger, flexible network coverage, it meets a variety of household needs. NX54 uses the enterprise-level Qualcomm chip, and comes equipped with a dual-core 1.0 GHz CPU and a standalone network acceleration engine NPU, making your network more stable. Empowered by its unique CSA and SCS technologies as well as 2 MHz narrow bandwidth technology, it enhances the anti-interference capability of wireless networks. Functions such as wireless IDS, anti-Wi-Fi squatting, and the latest WPA3 encryption make your network more secure. In addition, it provides built-in NetEase UU Game Booster and other features. The new vertically-molded H3C Wi-Fi 6 Router has better shape and better performance. (EasyMesh will be available upon software update.)



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Product features

Vertical molding

It is designed with a vertical shape and equipped with six external 5dBi high gain antennas. The I-shaped body reduces the possibility of

signal attenuation, makes the signal field stronger, and accelerates signal transmission more stably. The vertical shape and hollow back improve the thermal efficiency of the integrated machine, ensuring stable operation.

Enterprise-level Qualcomm chip

It uses a dual-core 1.0 GHz CPU with a standalone network acceleration engine NPU, and supports concurrent processing of 12 network channels. Empowered by a standalone network acceleration engine, the system runs more smoothly.

Wireless rate of 5,400 Mbps

It supports 160 MHz bandwidth in 5 GHz and the 4T4R channel, with twice the wireless rate of the mainstream router AX3000.

4K QAM leading transmission technology

Compared to 1024 QAM, the amount of data transferred at the same time increases by 20. Paired with the adaptive terminal, the wireless rate increases by 20.

Multi-terminal concurrency

It supports OFDMA smart frequency division, and upstream/ downstream MU-MIMO. Multiple terminals work concurrently for easing the queue.

NetEase UU All-terminal Game Booster

The built-in NetEase UU Game Booster delivers a smooth game experience.

Free from inter-neighbor Wi-Fi interference

The BSS Coloring technology enables each terminal to find its own organization, reducing inter-neighbor Wi-Fi interference.

Anti-Wi-Fi squatting/Anti-attack

IDS prevents external attacks and strangers from cracking into the software network.

Enterprise-level quality

H3C products serve more than 80% of the world's top 500 enterprises, covering government, finance, energy, electricity, operators, and other fields.

Worry-free after-sales service

Product specifications

Item	Description
Hardware	

Fixed port	Four 10/100/1000Base-T Ethernet ports Independent reset key, function keys (Mesh, wireless optimization)
Wireless	6 external high gain omnidirectional antennas (2.4 GHz & 5 GHz 5dBi)
CPU	IPQ5018
Indicator	Front LED: system status indicator Rear LED: 1 WAN port status indicator
Dimensions (W×D×H)	286mm x 87mm x 234mm
Power supply	DC 12V/2A
Power consumption	≤ 24W
Cooling method	Natural cooling
Product standards	YD/T 1096-2009
Certification	China Compulsory Certification SRRC certification China RoHS, EU RoHS Network access license by Ministry of Industry and Information Technology of the PRC
Wireless	
Wireless protocol	2.4 GHz: 802.11ax/n/g/b 5 GHz: 802.11ax/ac/n/a
Operating frequency band	802.11ax/ac/n/a: 5.15–5.35 GHz, 5.725 GHz–5.850 GHz (China) 802.11ax/n/b/g: 2.4 GHz–2.483 GHz (China) 2.4 GHz & 5 GHz, support dual-frequency combination, 5G preference
Spatial flow	2.4 GHz 2x2 MIMO 5 GHz 4x4 MIMO
Wireless bandwidth	2.4G HT20/HT40 5G HT20/HT40/HT80/HT160
Wireless rate	Dual-frequency concurrency 5,378 Mbps 2.4 GHz: 574 Mbps & 5 GHz: 4,804 Mbps
Wireless roaming	Support IEEE 802.11k/v
MU-MIMO	Upstream and downstream MU-MIMO
Software	
Internet connection	Routing mode: DHCP/PPPoE/Static IP Bridge mode: wired relay/wireless relay
EasyMesh	Available upon software update
IPv6	Available upon software update
Security features	WPA3 encryption Anti-Wi-Fi squatting/anti-attack Firewall, DMZ, DoS attacks
Network management	Guest Wi-Fi, access allowlist/denylist, parental controls based on multiple periods, IP-based traffic control, Wi-Fi timing switch
Features	UU Game Booster, Qos traffic shaping, broadband password retrieval, packet fast-forwarding engine, virtual server, port triggering (available upon software update)
Management method	Support for H3C Magic APP (iOS, Android), Web (moshujia.cn or http://192.168.124.1)

Fault diagnosis	Link detection Internet diagnosis Smart cloud maintenance Professional customer service via WeChat One-click uploading of fault information Convenient goods-exchanging
Operating environment	
Operating temperature	0°C–40°C
Storage humidity	10%–90%, RH non-condensing
Package	
Packing list	Integrated machine Quick Start Guide Power supply: DC 12V/2A Networking cable: Cat 5e cable Warranty card Certificate of Conformity

Ordering information

Description	Quantity	Remarks
Data communication - H3C Magic NX54-802.11ax 5400M Gigabit Dual Band Wi-Fi 6 Wireless Router - Domestic Version	1	

H3C

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