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 external 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. The new vertically-molded H3C Wi-Fi 6 Router has better shape and better performance.

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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.

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.

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	Dual-core 1.0 GHz

Indicator	Front LED: system status indicator Rear LED: 1 WAN port status indicator
Dimensions (W×D×H)	286mm x 87mm x 234mm
Power supply	12V⎓2A
Cooling method	Natural cooling
Wireless	
Wireless protocol	2.4 GHz: 802.11ax/n/g/b 5 GHz: 802.11ax/ac/n/a
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	Support
IPv6	Support
Security features	WPA3 encryption Anti-Wi-Fi squatting/anti-attack Firewall, DMZ, DoS attacks
Network management	Guest Wi-Fi, access allow list/deny list, parental controls based on multiple periods, IP-based traffic control, Wi-Fi timing switch
Features	Qos traffic shaping, broadband password retrieval, packet fast-forwarding engine, virtual server, DDNS(NoIP, DynDNS), VPN(PPTP Client,L2TP Client)
Management method	Support for H3C Magic APP (iOS, Android), Web
Fault diagnosis	Link detection Internet diagnosis
Operating environment	
Operating temperature	0°C–40°C
Storage humidity	10%–90%, RH non-condensing
Package	
Packing list	Integrated machine Quick Start Guide Power Adapter Networking cable: Cat 5e cable

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