

H3C BX54 Gigabit Dual Band Wi-Fi 6 Wireless Router

Overview

H3C BX54 Gigabit Dual Band Wireless Router is a new Wi-Fi 6 router designed by New H3C Intelligence Terminal Co., Ltd. for users requiring high-quality networks. BX54 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 four built-in high gain antenna and six independent ultra-high power Skyworks FEMs, and supports EasyMesh. With larger, flexible network coverage, it meets a variety of household needs. BX54 uses the enterprise-level Qualcomm chip, and comes equipped with a dual-core 1.0 GHz CPU and a standalone network acceleration engine NPU. It has a memory of 512 MB and supports access of up to 640 terminals, making your network more stable. Its unique CSA and SCS technologies as well as 2 MHz narrow bandwidth technology enhance 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 latest H3C Wi-Fi 6 redefines quality.



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Product Features

Wireless Rate of 5,400 Mbps

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

Enterprise-Level Qualcomm Chip

Dual-core 1.0 GHz CPU with standalone network acceleration engine NPU, and concurrent processing of 12 network channels work with a standalone network acceleration engine, so the system runs more smoothly.

6 Top-Class High-Performance Signal Amplifiers

Independent built-in high power FEM has larger signal coverage, solving the signal problem for remote terminals.

Multi-Terminal Concurrency

It supports OFDMA smart frequency division, and upstream/ downstream MU-MIMO. Multiple terminals work concurrently for easing the queue. A maximum of 640 terminals can be connected to the Internet simultaneously.

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 port Independent reset key, function keys (Mesh, wireless optimization)
Wireless	4 built-in high gain omnidirectional antennas (2.4 GHz 3dBi & 5 GHz 5dBi)
CPU	Dual-core 1.0 GHz
Memory	512 MB
Indicator	Front LED: system status indicator Rear LED: 1 WAN port status indicator, 3 LAN port status indicators
Dimensions (WxDxH)	95mm x 95mm x 226mm
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	Follow-up supporting of 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	WPA-PSK/WPA2-PSK//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 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



New H3C Intelligence Terminal Co., Ltd.

Guangzhou headquarters
No.100 of Room 406, No.1 Yichuang Street, Sino-Singapore
Knowledge City, Huangpu District, Guangzhou
Postcode: 510700

Hangzhou headquarters
No.466 Changhe Road, Binjiang District, Hangzhou
Postcode: 310052

<http://www.h3c.com>

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