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 (W×D×H)	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	0ºC–40ºC
Storage humidity	10%–90%, RH non-condensing
Package	
Packing list	Integrated machine
	Quick Start Guide
	Power Adapter
	Networking cable: Cat 5e cable