

WI-FI 6 WHOLE-HOME CONNECTIVITY

HBE-AX3000

AX3000 Dual-Band Wi-Fi 6 Router

**AX3000**

574 + 2402 Mbps

6 × 5 dBi

High-Gain Antennas

5 × Gigabit

1 WAN + 4 LAN

Mesh + VPN

Flexible Networking

Product Overview

The HBE-AX3000 is a cost-effective, high-performance Wi-Fi 6 router designed for mainstream homes and small offices. It delivers fast, efficient whole-home wireless coverage for multi-device environments, helping improve streaming, gaming, video calls, smart-home access, and everyday online work with lower latency and reduced congestion.

Built for today's connected home

Wi-Fi 6 capacity, 160 MHz channel support, gigabit wired connectivity, Mesh expansion, and secure VPN access in one practical platform.

Product Features

A balanced feature set for faster wireless access, broader coverage, and flexible deployment.

AX3000 Dual-Band Wi-Fi 6

Provides up to 574 Mbps on 2.4 GHz and up to 2402 Mbps on 5 GHz, for a combined wireless rate of up to 3000 Mbps. Backward compatibility with Wi-Fi 5 and Wi-Fi 4 helps keep existing devices connected.

Six External High-Gain Antennas

Six 5 dBi external antennas broadcast a strong, stable signal throughout a home or small office, helping reduce dead zones and improve coverage in hard-to-reach areas.

Full Gigabit Ethernet

One Gigabit WAN port and four Gigabit LAN ports support high-speed broadband access and stable wired connections. Cat5e or higher Ethernet cabling is recommended for gigabit performance.

Flexible Operating Modes

Use the router as a standard DHCP or PPPoE gateway, an access point connected by Ethernet to an upstream router, or a wireless repeater to extend an existing Wi-Fi network.

Easy Mesh Expansion and WPS

Press the WPS button briefly to connect compatible devices. Press and hold for more than 5 seconds to initiate Mesh pairing with compatible Mesh devices for seamless whole-home expansion.

Multi-Protocol VPN

OpenVPN, PPTP, and L2TP support enables encrypted private connections for secure access and remote connectivity, subject to the configured VPN service and network environment.

Designed for Multi-Device Use

Wi-Fi 6 improves network efficiency in busy environments, making the HBE-AX3000 suitable for simultaneous family streaming, online gaming, social gatherings, office work, and expanding smart-home ecosystems.

Operating Modes

- **AP Mode:** Extends wireless access using an Ethernet connection to an upstream router or gateway.
- **Repeater Mode:** Wirelessly extends an existing Wi-Fi signal. For best stability, install with a strong source signal and minimize wall obstruction.
- **DHCP Router:** Automatically assigns IP addresses, gateway details, and DNS settings to local client devices.
- **PPPoE Router:** Supports username-and-password authentication commonly used by FTTH and DSL broadband services.

Technical Specifications

Product Information

PRODUCT INFORMATION	
Product Model	HBE-AX3000
Product Name	AX3000 Dual-Band Wi-Fi 6 Router
SIM Slot	None — an upstream modem, ONT, or internet gateway is required

Wireless

WIRELESS	
Wi-Fi Bands	2.4 GHz + 5 GHz dual band
Combined Wireless Rate	Up to 3000 Mbps
2.4 GHz Wireless Rate	Up to 574 Mbps
5 GHz Wireless Rate	Up to 2402 Mbps
Wi-Fi Standards	IEEE 802.11a/b/g/n/ac/ax
2.4 GHz Frequency	2.412–2.472 GHz
5 GHz Frequency	5.180–5.825 GHz
2.4 GHz Channel Width	20 / 40 MHz
5 GHz Channel Width	20 / 40 / 80 / 160 MHz
Wireless Antennas	6 × 5 dBi external antennas for 2.4 GHz and 5 GHz

Network Interfaces

NETWORK INTERFACES	
WAN Port	1 × 10/100/1000 Mbps RJ45 WAN
LAN Ports	4 × 10/100/1000 Mbps RJ45 LAN
Recommended Cabling	Cat5e or higher for gigabit Ethernet performance

System & Management

SYSTEM & MANAGEMENT	
Default Management IP	192.168.6.1
Default Username / Password	admin / admin
Default 2.4 GHz SSID HBE	AX3000-XXXX (XXXX represents the final digits of the MAC address)
Default 5 GHz SSID HBE	AX3000-XXXX-5G (XXXX represents the final digits of the MAC address)
Default Wi-Fi Password	12345678
Operating Modes	Repeater / AP / DHCP Router / PPPoE Router
Router Functions	NAT, firewall, DHCP server/client
VPN Protocols	OpenVPN, PPTP, L2TP
LED Indicators	Power / Wi-Fi / Network

System, Security & Package

Wireless Security

WIRELESS SECURITY	
Encryption Options	Open network or encrypted network
Security Modes	WPA-PSK / WPA2-PSK / WPA/WPA2 mixed mode
Configuration Note	Manual active selection of the encryption mode is not currently supported

Buttons & Power

BUTTONS & POWER	
Power Input	DC 12 V / 1 A
Reset Button	Press and hold for 8–12 seconds to restore factory settings
WPS / Mesh Button	Press for 2 seconds to activate WPS; press and hold for more than 5 seconds to initiate Mesh pairing

Package Contents

- 1 × HBE-AX3000 Dual-Band Wi-Fi 6 Router
- 1 × DC 12 V Power Adapter
- 1 × Ethernet Cable
- 1 × User Manual

Security reminder: Change the default administrator and Wi-Fi passwords during initial setup. Available channels and frequencies may vary by country or region.