

Product Highlights

- Wi-Fi 6 technology provides faster speeds, greater capacity and less network congestion.
- Achieve the ultimate experience with Wi-Fi 6, delivering speeds of up to 3Gbps¹. Delight in seamless 4K/8K UHD streaming, lag-free gaming, and smooth streaming.
- 1 Gigabit Ethernet WAN port and a 1 Gigabit Ethernet LAN port allow for high-speed wired connectivity.
- 1024 QAM and 160 MHz contiguous channel width for turbo charged speeds up to 2.3 times faster over larger areas.
- BSS coloring helps organize data packets, making your network more efficient and improving overall Wi-Fi 6 performance.
- The latest Wi-Fi security protocol, WPA3, brings new capabilities to improve cybersecurity in personal networks.



DIR-X301

AX3000 Wi-Fi6 Dual-Band Mesh System

D-Link's DIR-X301 AX3000 Wi-Fi6 Mesh Router designed for today's device-dense homes, the AX Wi-Fi 6 solution is perfect for 4K streaming, VR gaming, video calling and keeping all your smart home devices connected. D-Link Wi-Fi Mesh lets you add similar models to expand your network as you wish.

Increased Capacity: The expanded spectrum of Wi-Fi 6 provides a greater number of non-overlapping channels, enabling it to efficiently support dense IT and Internet of Things (IoT) environments without performance degradation.

Uninterrupted Wi-Fi Everywhere: Enjoy robust 360° spherical coverage courtesy of a sophisticated antenna design and beamforming technology, ensuring fast and consistent Wi-Fi in every corner of your home.

Scale-as-you-need Mesh: Future proof your network and easily expand your coverage by adding more supported Mesh router to create a whole home Mesh network.



AX3000

Wi-Fi 6 – Next Generation Wi-Fi

Wi-Fi 6 technology provides faster speeds, greater capacity and less network congestion.



Smart Roaming

Seamlessly connects your devices to the strongest signal as you move from room to room, eliminating the need for them to disconnect and reconnect.



OFDMA

Small data packets destined for multiple devices are transmitted together and never have to queue up again. Perfect for Smart Homes filled with bandwidth-hungry IoT devices battling for bandwidth.



Smart Steering

Automatically steers your devices to the optimal wireless band, ensuring you're always connected to fast, reliable Wi-Fi throughout your home.



Simple Setup

DIR-X301 Points come pre-paired out of the box, just plug them in and get started.



Parental Controls

Assign devices to family members' to individually block devices and websites, set schedules for access, and turn off Wi-Fi.



Expandable Network

DIR-X301 is a scalable solution. Add extra DIR-X301 Points where you need more coverage.



Works with your existing Router or Gateway

Simply connect DIR-X301 to the Router or Gateway provided by your ISP to add whole home coverage to your network.

Technical Specifications

Hardware Parameters

CPU frequency	Quad core 1.7GHz
Memory	256MB 16-bit DDR3L
Flash	128MB NAND
Wi-Fi	2.4GHz: 802.11b/g/n/ac/ax, 574Mbps ¹ 5 GHz: 802.11a/n/ac/ax, 2402Mbps ¹
Device Interfaces	1 x RJ45 10M/100M/1000M WAN Port, 1 x RJ45 10M/100M/1000M LAN Port 1 x Reset button, 1 x WPS button, 1 x Power jack
Wi-Fi Antenna	2 x 3dBi internal 2.4G antenna, 2 x 5dBi internal 5G antenna

Wi-Fi Features

Standard	802.11a/b/g/n/ac/ax 2.4G: 2.4GHz~2.4835GHz, 5G: 5.150GHz~5.825GHz, ETSI and FCC compliant	
Modulation Schemes	OFDM = BPSK,QPSK, 16-QAM, 64-QAM 256-QAM 1024-QAM, DSSS = DBPSK, DQPSK, CCK	
Transfer Rate	HE20: up to 574Mbps 2.4G+5G HE40: up to 1147Mbps 2.4G+5G	HE80: up to 1201Mbps 5G HE160 up to 2402Mbps 5G

General Software Features

Wireless main Protocols:

- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n
- IEEE 802.11ac
- IEEE 802.11ax
- IEEE 802.11h(dfs)
- IEEE 802.11e(wmm)
- IEEE 802.11k/v/r

Wireless spec Features:

- Embedded AP with 2 SSIDs on each Radio
- Separate authentication for each SSID
- Wmf
- AutoChannel
- BSD
- EasyMesh
- WPA3/SAE Security

Management Features:

- WEB GUI
- Command line tools(telnet/ssh)
- TR-069 remote mangagment
- TR181/TR104/TR140/TR143/TR157 (periodicstatistics)
- UPNP

Network main Protocols:

- RFC0768 UDP
- RFC0791 IP
- RFC0792 ICMP
- RFC0793 TCP
- RFC0826 Ethernet ARP
- RFC0894 IP over Ethernet
- RFC0922 Broadcasting Internet Datagrams
- RFC0950 Internet Standard Subnetting
- IEEE802.3 Ethertype
- IEEE802.1p
- RFC2516 PPP Over Ethernet (PPPoE)
- RFC1662 PPP in HDLC-like Framing
- RFC1332 PPP Internet Protocol Control Protocol
- RFC1042 Transmission of IP Datagrams over IEEE 802 Networks
- IPoE (a.k.a IP over Ethernet over AAL5)

Network spec Features:

- IPv4/IPv6 dual stack
- 6RD
- IPoE Bridge Mode
- IPoE DHCP/Static
- PPPoE Dynamic/Static
- IPv6 Stateless/Stateful
- PPTP, L2TP, GRE, IPSEC, Open VPN
- IGMP proxy and MLD for IPTV
- DNS Proxy
- DHCP server
- NAT,NAPT and ALG

Other spec Features:

- QoS Flow Control
- NAT,NAPT and ALG
- DMZ and Port forwarding(Virtual server)
- SPI Firewall, Denial of Service (DoS) protection
- Port filtering, IP filtering and MAC filtering
- URL filter
- DDNS
- Static route
- SNTP Date/time update from Internet Time Server
- Diagnostics(Ping/TraceRoute)
- Logs and statistics
- Automatic timing restart
- Auto firmware update

Environment Requirement

Operating Temperature	0°C~40°C
Storage Temperature	-20°C ~ 70°C
Operating Humidity	5%~95% (typical)
Power Supply	12V/1A

EMC/Safety

Regulation Compliance	CE
Safety Regulations	UL
Green Standard	RoHS

Ordering Information

DIR-X301/MNA3	AX3000 Dual-Band Wi-Fi 6 Mesh System (3-pack)
DIR-X301/MNA4	AX3000 Dual-Band Wi-Fi 6 Mesh System (4-pack)

¹Maximum wireless signal rate derived from IEEE Standard 802.11ax specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, may lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.