

## Product Highlights

- Wi-Fi 6E technology provides faster speeds, greater capacity and less network congestion.
- Achieve the ultimate experience with Wi-Fi 6E, delivering speeds of up to 5.4Gbps. Delight in seamless 4K/8K UHD streaming, lag-free gaming, and smooth streaming.
- 2 Gigabit Ethernet LAN ports and a 2.5-Gigabit Ethernet WAN 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 6E performance.
- The latest Wi-Fi security protocol, WPA3, brings new capabilities to improve cybersecurity in personal networks.



## DIR-XE5480

# AX5400 Wi-Fi 6E Tri-band Mesh Router

D-Link's DIR-XE5480 AX5400 Wi-Fi 6E Tri-band Mesh Router Designed for today's device-dense homes, the AX Wi-Fi 6E 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 6E provides a greater number of non-overlapping channels, enabling it to efficiently support dense IT and Internet of Things (IoT) environments without performance degradation.

**Reduced Interference:** A significant benefit of using the 6-GHz band for Wi-Fi 6E is the absence of spectrum sharing with Wi-Fi 4 (802.11n) or Wi-Fi 5 (802.11ac) devices. This enhances overall efficiency and performance because all Wi-Fi 6E devices make use of highly efficient Wi-Fi 6 radios and are not hindered by older devices operating at lower data rates.

**Enhanced Throughput:** Wi-Fi 6 operating in the 6 GHz range supports a larger number of channels, including those that are 80 MHz and 160 MHz wide. This results in users being able to transmit and receive data at the highest achievable speeds within these wider channels, ultimately leading to improved performance for bandwidth-intensive applications such as augmented and virtual reality (AR/VR) and real-time immersive gaming.



### Wi-Fi 6E – Next Generation Wi-Fi

Designed for today's device-dense homes, the DIR-XE5480 Wi-Fi 6E solution is perfect for 4K streaming, VR gaming, video calling and keeping all your smart home devices connected.



### 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-XE5480 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-XE5480 is a scalable solution. Add extra DIR-XE5480 Points where you need more coverage.



### Works with your existing Router or Gateway

Simply connect DIR-XE5480 to the Router or Gateway provided by your ISP to add whole home coverage to your network.

**Technical Specifications**
**Hardware Parameters**

|                   |  |
|-------------------|--|
| Chipset           | BCM6756+BCM50212E +BCM6705   |
| CPU frequency     | Quad core 1.7GHz   |
| Memory            | 256MB 16-bit DDR3L   |
| Flash             | 128M NAND  |
| Wi-Fi             | 2T2R 2.4GHz 802.11b/g/n/ac/ax, 574Mbps, 2T2R 5.8GHz 802.11a/n/ac/ax, 2402Mbps, 2T2R 6G 802.11a/n/ac/ax, 2402Mbps   |
| Device Interfaces | 2 x RJ45 10M/100M/1000M LAN Ethernet interfaces<br>1 x RJ45 10M/100M/1000M /2500M WAN Ethernet interface<br>1 x Reset button<br>1 x WPS button<br>1 x Power jack |
| Wi-Fi Antenna     | 2 x 3dBi internal 2.4G antenna, 2 x 5dBi internal 5G antenna, 2 x 5dBi internal 6G antenna   |

**Wi-Fi Features**

|                    |  |  |                         |
|--------------------|--|--|-------------------------|
| Standard           | 802.11a/b/g/n/ac/ax<br>2.4G: 2.4GHz~2.4835GHz, 5G: 5.150GHz~5.825GHz, 6G:5.925GHz~7.125GHz<br>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<br>HE40: up to 1147Mbps 2.4G+5G  | HE80: up to 1201Mbps 5G<br>HE160 up to 2402Mbps 5G | HE160 up to 2402Mbps 6G |

**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 8 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 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

**Environment Requirement**

|                       |                  |
|-----------------------|------------------|
| Operating Temperature | 0°C~40°C         |
| Storage Temperature   | -20°C ~ 70°C     |
| Operating Humidity    | 5%~95% (typical) |
| Power Supply          | 12V/1.5A         |

**EMC/Safety**

|                       |      |
|-----------------------|------|
| Regulation Compliance | CE   |
| Safety Regulations    | UL   |
| Green Standard        | RoHS |