



Enterprise Solution

Table of Contents

p.03

■ End-to-End xPON Solution

- Key Features
- Connection Diagram
- Device Catalogue

p.06

■ Enterprise Access Points

- Key Features
- Application Scenarios
- Device Catalogue

p.11

■ Wi-Fi 6 / 6E / 7

- Innovative D-Link Wi-Fi 7 / 6E / 6 Devices

End-to-End xPON Solution

D-Link provides OLT + ONT End-to-End xPON solution including “One Box” and “Two Box” solutions, and interoperability (IOP) is no longer the painful things when deployment with our End-to-End offering.

xPON indicates the support availability of GPON, XGSPON and combo GPON/XGSPON in the same PON port of OLT.

The Wi-Fi/VoIP capability and routing function are the main differentiated characteristics which are integrated in “One Box” solution, and separated in “Two Box” solution.

We can use the Wi-Fi router connected to SFU (called Two Box) and perform the same functionality as HGU (called One Box), PoE edge switch can be applied to provide more port counts and PoE capability.

Key Features



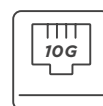
Interoperability (IOP) Saving

Verified traffic transmission between paired OLT and ONU



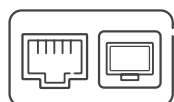
Flexibility

Support GPON, XGSPON and Combo GPON/XGSPON in the same network



Up to 10G Ethernet LAN Ports

Favorable for smart TVs, game consoles, PCs and more for fast and reliable connections.



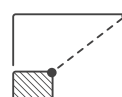
VoIP Service

Support FXS ports for VoIP feature



Wi-Fi Mesh

D-Link Wi-Fi Mesh intelligently finds best path and provide better coverage of routers.

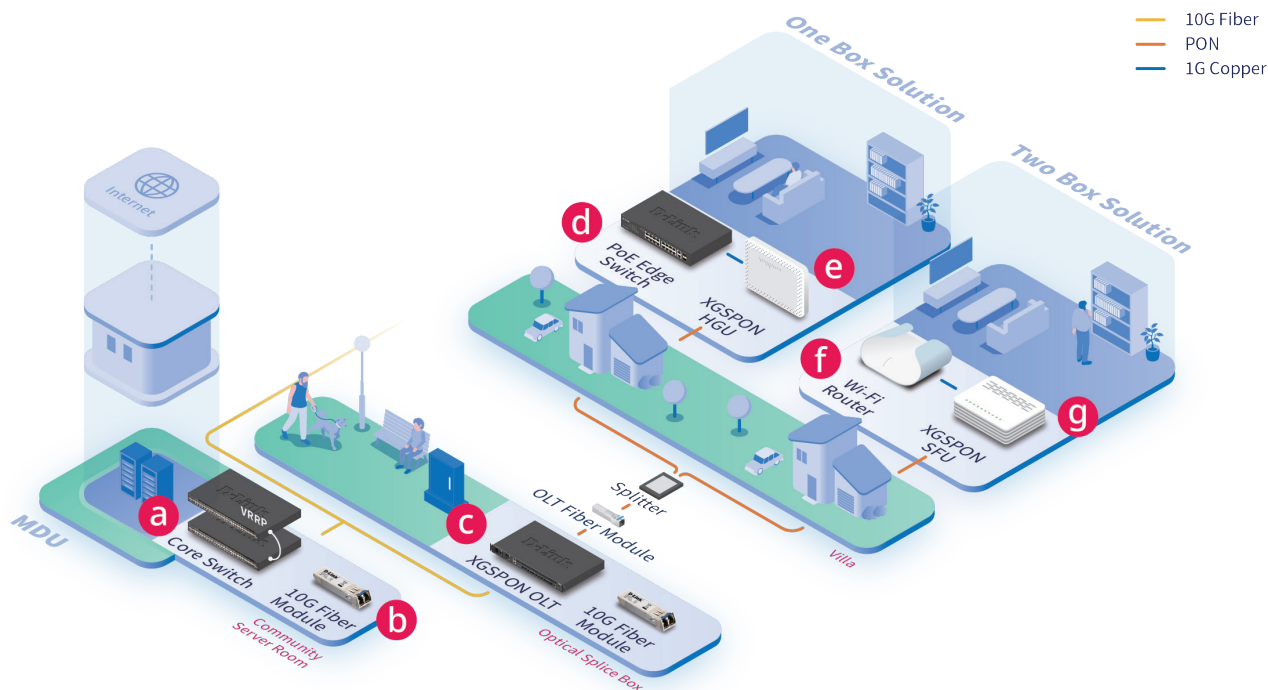


Scalability

Connected with Switch for different port count and PoE capability.

Connection Diagram

10G PON FIBER SOLUTION FOR MDU



a Core Switch
DXS-3610-54S
48x10G, 6x100G

b 10G Fiber Module
DEM-4XX

c XGSPON OLT
DLT-0108-H0
8xXGSPON, 4x25G

d PoE Edge Switch
DGS-1100-18PV2
16x1G PoE+, 2x1G

e XGSPON HGU
DXN-X6062

f Wi-Fi Router
M60

g XGSPON SFU
DXN-02X

Device Catalogue



XGSPON OLT

DLT-0108-H0

- 8xG/XGS/Combo-PON UNI
- 4x25GE SFP28 NNI
- 1+1 Hot-Swappable Power Modules/Fan Trays



XGSPON SFU

DXN-02X

- XGSPON compliant with ITU-T G.9807.1 (SC/APC)
- 1x10GE RJ-45 LAN + 1x1GE RJ-45 LAN



XGSPON HGU

DXN-X6062

- XGSPON compliant with ITU-T G.9807.1 (SC/APC)
- 1x10GE RJ-45 LAN + 4x1GE RJ-45 LAN
- 2xRJ11 FXS
- Wi-Fi 6 4x4 Concurrent Dual-Band (2.4GHz + 5GHz) AX6000, 4 External Antennas
- 1xUSB3.0



Wi-Fi Router

M60

- Wi-Fi 6 4x4 Concurrent Dual-Band (2.4GHz+5GHz) AX6000, 4xInternal Antennas
- 1x2.5GE Gigabit WAN + 4xGigabit LAN port



Core Switch

DXS-3610-54S

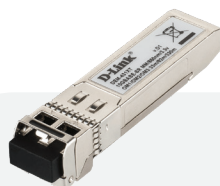
- 48x10GE SFP+ + 6x100GE QSFP28
- 1+1 Hot-Swappable Power Modules/Fan Trays, Dying Gasp



PoE Edge Switch

DGS-1100-18PV2

- 16x1GE RJ-45 PoE+ + 2x1GE SFP/ RJ-45 Combo
- IEEE 802.3af/at PoE, 130W Power Budget



10G Fiber Module

DEM-431XT,432XT,433XT,434XT,436XT-BXD/BXU

- 10GE MMF SR-300m
- 10GE SMF LR-10Km
- 10GE SMF ER-40Km
- 10GE SMF ZR-80Km
- 10GE SMF BIDI LR-20Km

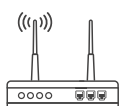
Enterprise Access Points

D-Link provides high-quality enterprise access points for reliable performance in business settings. Tailored for corporate deployment, these advanced devices play a vital role in WLAN infrastructures, ensuring seamless communication between wireless devices and the wired network.

D-Link offers robust security with customizable captive portals and varied authentication options for each SSID, empowering network owners to choose diverse protection methods for their network environment.

Effortlessly create captive portal landing pages without HTML coding, swiftly deploy and configure across all EAPs. VLAN tagging per SSID allows each SSID to cater to diverse groups while maintaining security.

Key Features



Auto RF

D-Link EAP's Auto RF ensures devices choose optimal channels and adjust power for minimal interference, giving network managers confidence in a seamless Wi-Fi environment.



Customization Captive Portal for each SSID

D-Link EAP enables each SSID to have a distinct captive portal page design and unique guest login method, allowing one device to cater to distinct groups.



Central Management

Centralized management through on-premises software (Nuclias Connect) or the cloud (Nuclias Cloud). This empowers network managers to analyze, automate, configure, optimize, scale, and secure their network.



VLAN per SSID

VLAN for each SSID can be assigned a different VLAN tag. When combined with a managed switch, a single EAP can effectively serve various groups without compromising security between them.



Advanced Security

D-Link EAP not only supports the latest WPA3, but also 802.1x and MAC/IP ACL. With Nuclias central managed system, D-Link EAP provides higher security and easier client management.

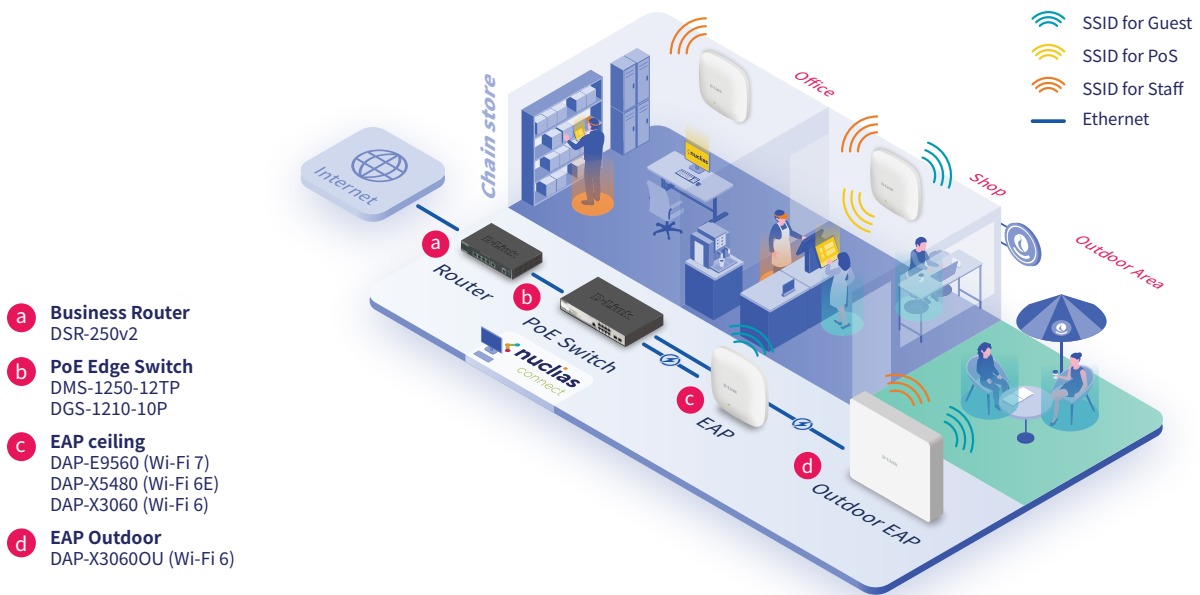


User Authentication and Roaming Capability

With centralized management through Nuclias, once a guest connects to D-Link EAP within the same organization, the user may not be required to re-authenticate after the initial login.

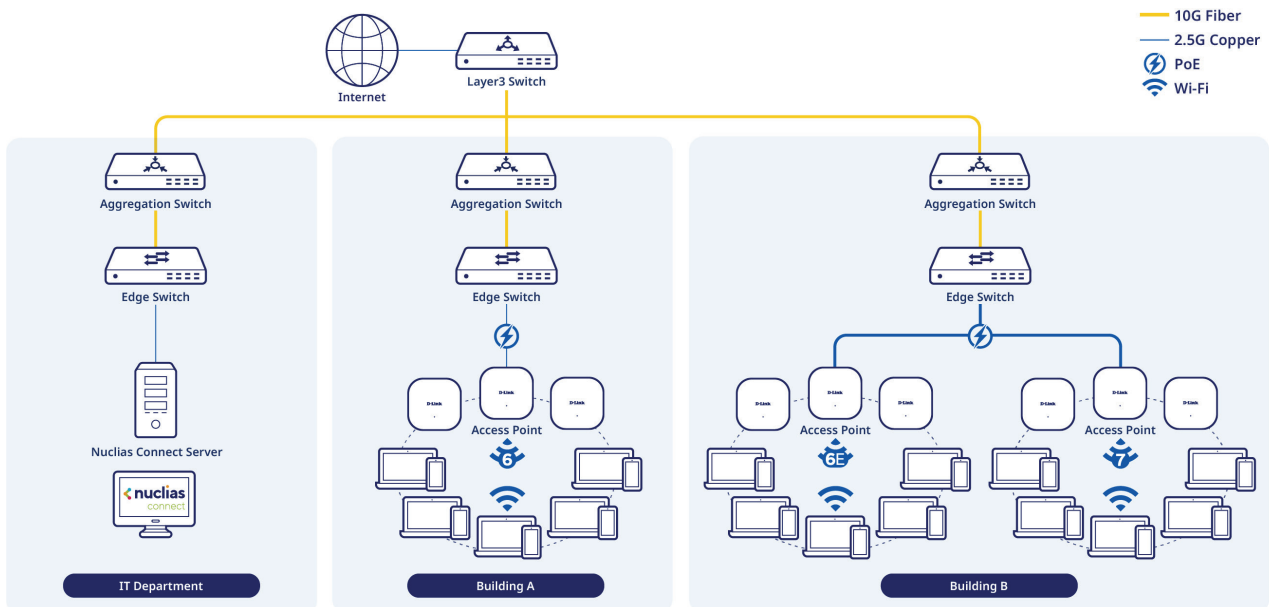
Application Scenarios

ENTERPRISE WI-FI GUEST ACCESS SOLUTION



Connection Diagram

ENTERPRISE WI-FI GUEST ACCESS SOLUTION



With Nuclias Connect management platform, network administrators can centrally manage D-Link EAPs and design the captive portal landing page with user authentication easily for each group according to different EAP.

Device Catalogue

Model	DBA-X2830P	DBA-X1230P
Product Image		
General		
Environment	Indoor	Indoor
OFDMA	✓	✓
IEEE Standard	802.11 a/b/g/n/ac/ax	802.11 a/b/g/n/ac/ax
2.4GHz Speed	1147 Mbps	575 Mbps
5GHz Speed	2402 Mbps	1200 Mbps
Functionality		
Number of SSIDs	16 (8 per ratio)	16 (8 per ratio)
PoE		
PoE Standard	802.3at	802.3at
Physical		
Ethernet Interface	• 1x2.5 Gigabit Ethernet • 1xGigabit Ethernet	• 1xGigabit Ethernet
Technical Specification		
Maximum Output Power	• 2.4GHz: 29dBm • 5GHz: 28dBm	• 2.4GHz: 20dBm • 5GHz: 23dBm
Antenna	Internal omni-directional	Internal omni-directional
Antenna Gain	• 2.4GHz: 3 dBi • 5GHz : 4 dBi	• 2.4GHz: 3 dBi • 5GHz : 4 dBi
Mounting Type	Ceiling/Wall/Desktop	Ceiling/Wall/Desktop
Security Lock	✓	✓

Device Catalogue

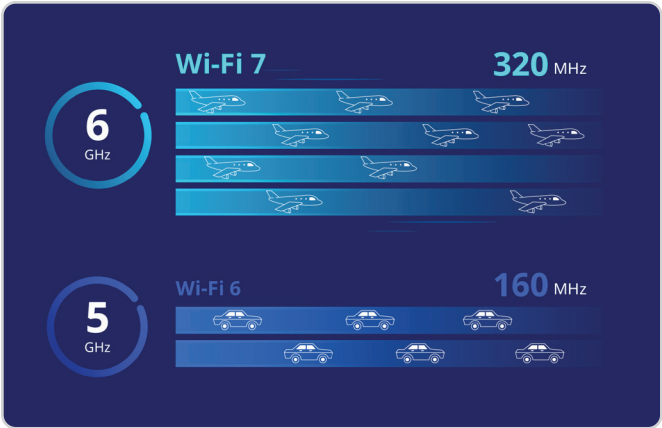
Model	DAP-E9560	DAP-X5480	DAP-X3060OU	DAP-X3060	DAP-X2850	DAP-X2810
Product Image						
General						
Environment	Indoor	Indoor	Outdoor	Indoor	Indoor High Density (HD)	Indoor
OFDMA	✓	✓	✓	✓	✓	✓
IEEE Standard	802.11 a/b/g/n/ac/ax/be	802.11 a/b/g/n/ac/ax	802.11 a/b/g/n/ac/ax	802.11 a/b/g/n/ac/ax	802.11 a/b/g/n/ac/ax	802.11 a/b/g/n/ac/ax
2.4GHz Speed	720 Mbps	574 Mbps	574 Mbps	574 Mbps	1147 Mbps	574 Mbps
5GHz Speed	2880 Mbps	2402 Mbps	2402 Mbps	2402 Mbps	2402 Mbps	1201 Mbps
6GHz Speed	5760 Mbps	2402 Mbps	-	-	-	-
Functionality						
Number of SSIDs	24 (8 per ratio)	24 (8 per ratio)	16 (8 per ratio)	16 (8 per ratio)	16 (8 per ratio)	16 (8 per ratio)
PoE						
PoE Standard	802.3bt	802.3at	802.3at	802.3at	802.3at	802.3at
Physical						
Ethernet Interface	• 1x10 Gigabit Ethernet • 1xGigabit Ethernet"	• 1x2.5 Gigabit Ethernet • 1xGigabit Ethernet	• 1x2.5 Gigabit Ethernet	• 1x2.5 Gigabit Ethernet	• 1x2.5 Gigabit Ethernet • 1xGigabit Ethernet"	• 1xGigabit Ethernet
Technical Specification						
Maximum Output Power	• 2.4GHz: 23 dBm • 5GHz: 21 dBm • 6GHz: 21dBm	• 2.4GHz: 23 dBm • 5GHz: 21 dBm • 6GHz: 21dBm	• 2.4GHz: 23 dBm • 5GHz: 21 dBm	• 2.4GHz: 23 dBm • 5GHz : 21 dBm	• 2.4GHz: 28 dBm • 5GHz : 25.5 dBm	• 2.4GHz: 23 dBm • 5GHz : 26 dBm
Antenna	Internal	Internal	Internal	Internal	Internal	Internal
Antenna Gain	• 2.4GHz: 4 dBi • 5GHz: 5 dBi • 6GHz: 5 dBi	• 2.4GHz: 4 dBi • 5GHz: 5 dBi • 6GHz: 5 dBi	• 2.4GHz: 5 dBi • 5GHz: 5.5 dBi	• 2.4GHz: 3 dBi • 5GHz : 3 dBi	• 2.4GHz: 3.5 dBi • 5GHz : 5.5 dBi	• 2.4GHz: 3.2 dBi • 5GHz : 4.3 dBi
Mounting Type	Ceiling/Wall/Desktop	Ceiling/Wall/Desktop	Pole/Wall	Ceiling/Wall/Desktop	Ceiling/Wall/Desktop	Ceiling/Wall/Desktop
Security Lock	✓ *Coming Soon	✓ *Coming Soon	✓ *Coming Soon	✓	✓	✓

Device Catalogue

Model	DAP-2622	DAP-3666	DIS-3650AP	DIS-2650AP
Product Image				
General				
Environment	Indoor	Outdoor	Outdoor	Indoor
OFDMA				
IEEE Standard	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac
2.4 GHz Speed	300 Mbps	300 Mbps	300 Mbps	300 Mbps
5 GHz Speed	867 Mbps	866 Mbps	866 Mbps	866 Mbps
Functionality				
Number of SSIDs	16 (8 per ratio)	16 (8 per ratio)	16 (8 per ratio)	16 (8 per ratio)
PoE				
PoE Standard	802.3at	802.3af	802.3at	802.3at
Physical				
Ethernet Interface	• 3xGigabit Ethernet (PoE in + PoE Out + LAN)	• 2xGigabit Ethernet	• 1xGigabit Ethernet	• 2xGigabit Ethernet
Technical Specification				
Maximum Output Power	• 2.4GHz: 20 dBm • 5GHz: 20 dBm	• 2.4GHz: 26 dBm • 5GHz: 26 dBm	• 2.4GHz: 23 dBm • 5GHz: 23 dBm	• 2.4GHz: 23 dBm • 5GHz: 23 dBm
Antenna	Internal	Internal	2 x external omni-directional	2 x external omni-directional
Antenna Gain	• 2.4GHz: 2.8 dBi • 5GHz: 4.1 dBi	• 2.4GHz: 6 dBi • 5GHz: 7 dBi	• 2.4GHz: 3 dBi • 5GHz: 5 dBi	• 2.4GHz: 2.5 dBi • 5GHz: 3 dBi
Mounting Type	Wall Plate	Pole/Wall	DIN rail/Wall/Pole	DIN rail/Wall/Desktop
Security Lock	✓	✓		

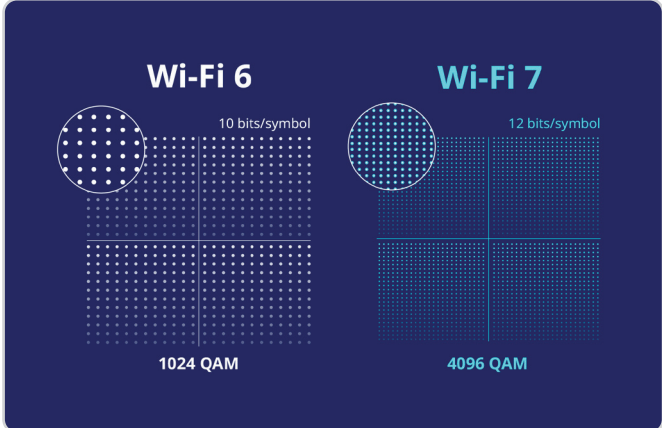
Wi-Fi 6 / 6E / 7

Wi-Fi 7, 6E, and 6 represent successive stages in wireless evolution. Wi-Fi 6 brings faster connections, while Wi-Fi 6E extends into the 6 GHz band for reduced congestion. Wi-Fi 7, the latest standard, enhances speed, efficiency, and performance, meeting evolving connectivity needs.



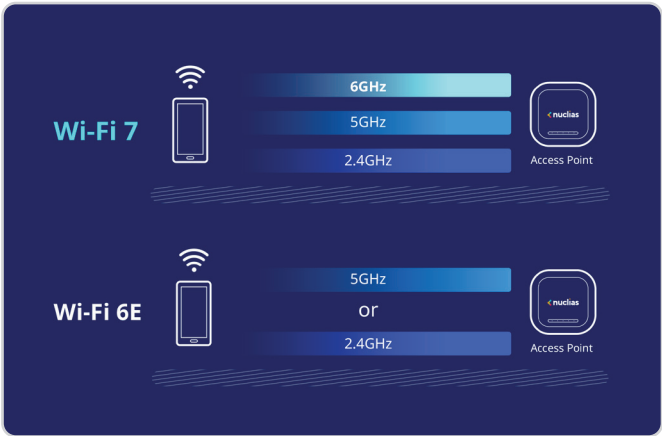
320MHz – 2X BANDWIDTH

Boost bandwidth to 320MHz for faster client downloads in the interference-free 6GHz, outperforming the 5GHz range.



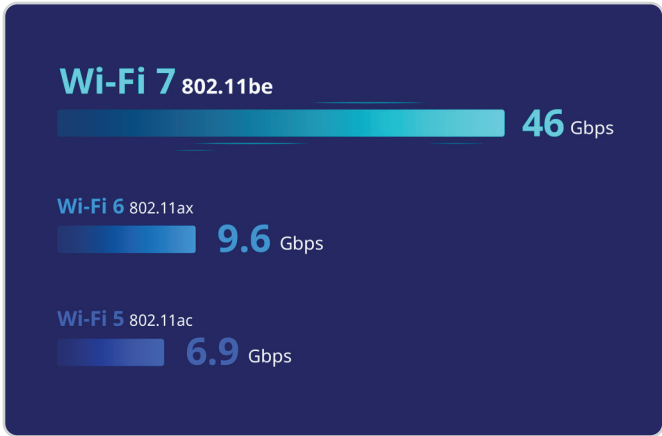
4096 QAM

Adopts 4096 QAM modulation. Theoretically this is 20% faster than Wi-Fi 6.



Multi-Link Operation (MLO)

Enable simultaneous aggregation of 2.4GHz, 5GHz, and 6GHz radio signals for higher throughput and lower latency.



46Gbps – 4.8X FASTER SPEED

Maximum data rate is up to 46Gbps theoretically, nearly four times faster than previous standard.

	Wi-Fi 6	Wi-Fi 6E	Wi-Fi 7
IEEE standard	802.11ax	802.11ax	802.11be
Speed Capacity	9.6 Gbps	9.6 Gbps	46 Gbps
Frequency Bands	2.4GHz and 5GHz	2.4GHz, 5GHz, 6GHz	2.4GHz, 5GHz, 6GHz
QAM Modulation	1024-QAM	1024-QAM	4096-QAM
Channel Width	160 MHz	160 MHz	320 MHz
Access Point	Single	Single	Multiple
MIMO	8x8 MU-MIMO	8x8 MU-MIMO	16x16 MU-MIMO
Wi-Fi Security	WPA 3	WPA 3	WPA 3

■ Innovative D-Link Wi-Fi 7 / 6E / 6 Devices



Wi-Fi 7 Tri-Band

DAP-E9560

- Wi-Fi 7 2x2x2 Concurrent Tri-Band (2.4GHz + 5GHz + 6GHz), BE9500
- 1 x 10G LAN (PoE) + 1G LAN
- Interference-free 6GHz radio spectrum with Ultra-wide 320 MHz channels
- Multi-Link Operation (MLO) increases up to 9.5 Gbps aggregate speeds
- WPA3™ Personal & Enterprise wireless encryption
- Support multiple operation modes (AP/WDS/WDS + AP)
- Power by 802.3bt PoE or USB-C adapter
- Customizable Captive Portal

Wi-Fi 6E Tri-Band

DAP-X5480

- Wi-Fi 6E 2x2x2 Concurrent Tri-Band (2.4GHz + 5GHz + 6GHz), AX5400
- 2.5G LAN (PoE) + 1G LAN
- Interference-free 6GHz radio spectrum
- Up to 160MHz channel bandwidth
- WPA3™ Personal & Enterprise wireless encryption
- Support multiple operation Mode (AP/WDS/WDS + AP)
- Power by 802.3at PoE
- Customizable Captive Portal

Wi-Fi 6 Indoor

DAP-X3060

- Wi-Fi 6 2x2 Concurrent Dual-Band (2.4GHz + 5GHz), AX3000
- 1 x 2.5G LAN (PoE)
- Support up to 160MHz channel Bandwidth
- WPA3™ Personal & Enterprise wireless encryption
- Support multiple operation modes to (AP/WDS/WDS + AP)
- Power by 802.3at PoE
- Customizable Captive Portal



Wi-Fi 6 Outdoor

DAP-X3060OU

- Wi-Fi 6 2x2 Concurrent Dual-Band (2.4GHz + 5GHz) AX3000
- 1 x 2.5G LAN (PoE)
- Support up to 160MHz channel Bandwidth
- WPA3™ Personal & Enterprise wireless encryption
- Support multiple operation modes (AP/WDS/WDS + AP)
- Power by 802.3at
- Customizable Captive Portal
- IP68 Housing

Wi-Fi 6 Dual-Band

DAP-X2810

- Wi-Fi 6 2x2 Concurrent Dual-Band (2.4GHz + 5GHz) AX1800
- 1x 1GE LAN (PoE)
- Latest WPA3™ Personal & Enterprise wireless encryption
- Support multiple AP modes (AP/WDS/WDS + AP)
- Powered by 802.3at
- Customizable Captive Portal



For more information about D-Link's latest products, please visit
www.dlink.com or contact your local D-Link sales representative