D-Link®

PRODUCT GUIDE

NETWORK SWITCHES
CLOUD NETWORK SOLUTIONS
INDUSTRIAL ETHERNET
WIRELESS
SMART HOME SURVEILLANCE

Untether

Why D-Link?

D-Link has been the brand of choice for millions of customers since way back in 1986. Back, in fact, since the Internet was in its infancy. We have grown with it, led the trends and continuously developed leading-edge products that reflect the needs and demands of real people in the real world, whether at work or at home.

With over 37 years in the industry, D-Link has both the resources and expertise needed to pioneer technological trends through ongoing research and development programmes. All this translates into affordable, market-leading products that make your business or personal life easier.

For Home

There's no avoiding it – we now live in a digital world, a world in which we want all our devices to talk to each other, to seamlessly integrate without the need for human intervention or continual techy tinkering. We want to stream music throughout our homes, ask Siri or Alexa what the weather will be like, visually monitor our babies or pets, download HD movies, share photos, play games and, of course, check our emails and browse the web.

All this needs modern, technologically advanced products that seamlessly integrate into our lives. And D-Link provides it all. Whether you need the latest Wi-Fi 6 router, a state-of-the-art network camera, smart plug, Wi-Fi range extender or a 5G hotspot, there's a D-Link product to suit.

For Business

From a business user perspective, D-Link has the scale, the resources, the experience and the expertise that the world's most demanding businesses look for. We make sure we stay really close to our customers' businesses and then, because our R&D resources are geared to fast-track product development, we provide them with early access to the most advanced solutions possible.

D-Link's switching, industrial Ethernet, wireless, security, and network management solutions deliver best-in-class performance. We offer standardised technology with industry- leading functionality integrated into highly flexible, highly reliable and highly secure solutions that are easy to implement, at a price you can afford.

Many of our business products come with a Limited Lifetime Warranty to reflect our commitment to provide even more quality, performance and value. Look for this logo to see which products are covered.

Lifetime
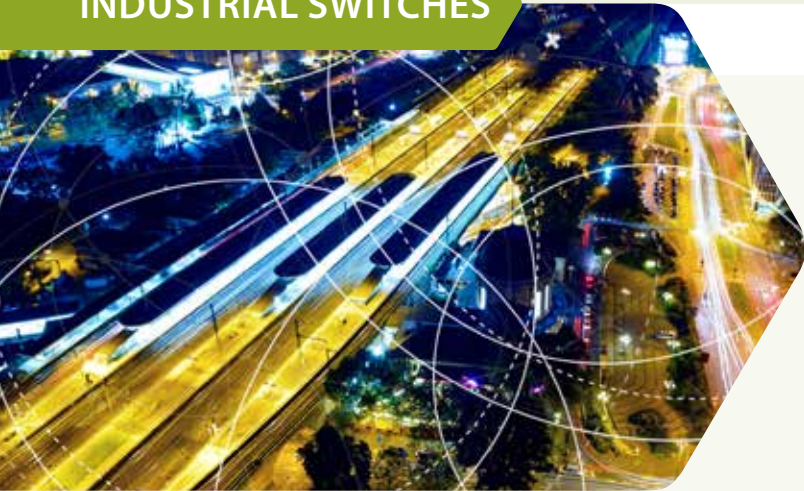
Designed for a more connected future

❶ Rugged, Hardened Design

Design to operate in wide temperature ranges, vibration, shock, allowing the switches to be deployed in enclosures or cabinets in outdoor locations

❷ High Availability

Comprehensive network redundancy features with fast fault recovery, together with advanced security features provides industrial-grade reliability and protection

❸ Flexible Options

Wide selection of port density, media and PoE provides customer with the flexibility to choose the right switch that best fits their requirement

Industrial Ethernet Switches
Rugged and reliable

D-Link's Industrial Ethernet Switches are designed specifically to withstand wide temperature range, vibrations and shock. These rugged, yet easy to deploy, switches have superior environmental specification compared to those of commercial network switches. With its hardened design combined with high availability network features, these switches form vital parts of any network infrastructure facilitating the increasing demand for smart cities, city-wide surveillance and wireless connectivity.

DIS-100E/100G Series Industrial Fast Ethernet / Gigabit Unmanaged Switches for edge deployment	DIS-200G Series Industrial Gigabit Smart Managed Switches for aggregation deployment	DIS-300G Series Industrial Gigabit Managed Switches for aggregation deployment	DIS-700G Series Industrial Layer 2+ Gigabit Managed Switch for core deployment
Plug and play; compact size	Cost-effective; compact size	High performance; compact size	High performance, dual redundant DC input
-40 to 75° operating temperature	-40 to 65° operating temperature	-40 to 75° operating temperature	-40 to 75°C operating temperature
DIN-Rail mounting	DIN-Rail mounting	DIN-Rail mounting	Rack mounting
5-port	12-port	8/12/14-port	24-port SFP + 4-port SFP+
Redundant power inputs	Optional PoE 802.3af/at support	Optional PoE 802.3af/at support	Supports intelligent Quality of Service (QoS)
Optional PoE 802.3af/at support (DIS-100G-5PSW)	VLAN support for added security	VLAN support for added security	Optimisation of network traffic

Industrial Gigabit Switches

MODEL	Unmanaged					Layer 2 Smart Managed		Layer 2 Managed			Layer 2+
	DIS-100E-5W/8W	DIS-100G-5W	DIS-100G-5SW	DIS-100G-5PSW	DIS-100G-6S/10S	DIS-200G-12S	DIS-200G-12PS	DIS-300G-12SW	DIS-300G-8PSW	DIS-300G-14PSW	DIS-700G-28XS

HARDWARE

Number of 10/100BASE-TX ports	5 / 8										
Number of 10/100/1000BASE-T ports		5	4	4	4 / 8	10	10	8	6	10	
Number of 100/1000 Mbps SFP ports			1	1	2	2	2	4	2	4	24
Number of 10G SFP+ ports											4
PoE standards				802.3af, 802.3at			802.3af, 802.3at		802.3af, 802.3at	802.3af, 802.3at,	
PoE power budget				120 W			240 W		120 W	240 W	
PoE capable ports				Ports 1-4, up to 30 W			Ports 1-8, up to 30 W		Ports 1-4, up to 30 W	Ports 1-2, up to 60 W Ports 3-8, up to 30 W	
Input voltage range	12-58 VDC	12-58 VDC	12-58 VDC	12-58 VDC, 54-58V for PoE+, 48-58V for PoE	12-48 VDC	12-48 VDC	48-58 VDC	12-58 VDC	48-58 VDC (54~58V VDC for PoE+)	48-58 VDC (54~58V VDC for PoE+)	Dual 20-58 VDC
Compatible power supplies	DIS-H30-24, DIS-H60-24, DIS-N240-48, DIS-N480-48	DIS-H30-24, DIS-H60-24, DIS-N240-48, DIS-N480-48	DIS-H30-24, DIS-H60-24, DIS-N240-48, DIS-N480-48	DIS-N240-48, DIS-N480-48	DIS-H30-24, DIS-H60-24, DIS-N240-48, DIS-N480-48	DIS-H30-24, DIS-H60-24,	DIS-N240-48, DIS-N480-48	DIS-H30-24, DIS-H60-24, DIS-N240-48, DIS-N480-48	DIS-N240-48, DIS-N480-48	DIS-N240-48, DIS-N480-48	DIS-H60-24
Redundant power input option	•	•	•	•	•	•	•	•	•	•	
Mounting option	Din-rail and wall	Din-rail and wall	Din-rail and wall	Din-rail and wall	Din-rail and wall	Din-rail and wall	Din-rail and wall	Din-rail and wall	Din-rail and wall	Din-rail and wall	19" rack mount
Operating temperature range	-40°to 75°C	-40°to 75°C	-40°to 75°C	-40°to 75°C	-20°to 65°C	-40°to 65°C	-40°to 65°C	-40 to +75°C	-40 to +75°C	-40 to +75°C	-40 to +75°C
Vibration, shock and freefall certification				Vibration: IEC60068-2-6; Shock: IEC60068-2-27; Free Fall: IEC60068-2-32							
NEMA-TS2, EN50121-4 (compliant)		•		•		•					
EMC certification				FCC Part 15, ESD: IEC61000-4-2, Radiated RF (RS): IEC61000-4-3, EFT: IEC61000-4-4, Surge: IEC61000-4-5, Conducted RF (CS): IEC61000-4-6							
Ingress protection	IP30	IP30	IP30	IP30	IP40	IP30	IP30	IP30	IP30	IP30	IP30
MAC address	1K	2K	2K	2K	4K	8K	8K	8K	8K	8K	8K

L2

802.1D STP, 802.1w RSTP, 802.1s MSTP						•	•	•	•	•	•
Fast Failover Protection Rings						• (ERPS, 50-200ms)	• (ERPS, 50-200ms)	• (<20ms)	• (<20ms)	• (<20ms)	• (<20ms)
802.3ad, 802.1AX link aggregation						•	•	•	•	•	•

VLAN

VLAN group (max static)						128	128	256	1024	1024	2048
Port / MAC / protocol-based VLAN, GVRP						Port-based, GVRP	Port-based, GVRP	•	•	•	•
Port-based double VLAN								•	•	•	•
Auto-Servillance, Voice VLAN						•	•				
Multicast protocols						IGMP v1/v2, IGMP snooping	IGMP v1/v2, IGMP snooping	IGMP v1/v2, IGMP snooping	IGMP v1/v2, IGMP snooping	IGMP v1/v2, IGMP snooping	IGMP v1/v2/v3, IGMP snooping

QOS

802.1p		•	•	•	•	•	•	•	•	•	•
Policy-based access control engine											Multi-layer ACL
Number of queues per port		4	4	4	8	4	4	8	8	8	8
Traffic shaper						Port-based	Port-based	Port-based	Port-based	Port-based	Port/queue-based shaping & scheduling
Traffic policer											TrTCM

SECURITY

Multicast/Broadcast/Flooding Storm Control						•	•	•	•	•	•
Access control						Web-based	Web-based	IP/MAC/policy-based	IP/MAC/policy-based	IP/MAC/policy-based	IP/MAC/policy-based

AAA

802.1X access control								•	•	•	•
RADIUS/TACACS+ authentication						RADIUS only	RADIUS only	•	•	•	RADIUS only

MANAGEMENT

SNMP (v1/v2c/v3), RMON v1						SNMP only	SNMP only	•	•	•	•
Web-based management						•	•	•	•	•	•
Command line interface (CLI)								•	•	•	•
HTTPs, SSH						•	•	•	•	•	•
Syslog						•	•	•	•	•	•
Command Line Interface (CLI)						Full	Full	Full	Full	Full	Full
Console port						RJ45	RJ45	RJ45	RJ45	RJ45	RJ45

MODEL	DWM-312W*/DWM-313 4G LTE M2M Router
Mobile networks	LTE Cat.4/UMTS/HSPA/GSM/GPRS/EDGE
Maximum speed	150 Mbps down / 50 Mbps up (LTE)
Device interface	• 1 x 10/100 Fast Ethernet WAN/LAN port • 1 x 10/100 Fast Ethernet LAN port • 1 x DC input • 3 x SMA (antenna connectors) • Dual Micro-SIM slots • DI/DO/Grounding ports (DWM-312W only)
Wi-Fi	• 802.11n/g/b (2.4GHz)
Advanced features	• QoS engine (Quality of Service) • L2TP/PPTP/IPSec VPN Client/Server modes • SNMP agent • Firmware over the air (FOTA) upgrades • Web-based UI • Integrated VPN client and server
Power input	DC 5V / 2A ~ 18V / 0.7A (DWM-312) DC 9V / 2A ~ 36V / 0.7A (DWM-312W)
Operating temp.	-20 to 60 ˚C

MODEL	ACCESSORIES
POWER SUPPLIES	
DIS-H30-24	30W 24VDC Ultra Slim DIN Rail PSU • Input: 85 ~ 264VAC • Output: 21.6 ~ 29V DC • Din rail TS-35/7.5 or 15 mountable • -30~70°C operating temperature
DIS-H60-24	60W 24VDC Ultra Slim DIN Rail PSU • Input: 85 ~ 264VAC • Output: 21.6 ~ 29V DC • Din rail TS-35/7.5 or 15 mountable • -30~70°C operating temperature
DIS-N240-48	240W 48VDC DIN Rail PSU • Input: 90 ~ 264VAC • Output: 48 ~ 55V DC • Din rail TS-35/7.5 or 15 mountable • -20~70°C operating temperature
DIS-N480-48	480W 48VDC DIN Rail PSU • Input: 90 ~ 264VAC • Output: 48 ~ 55V DC • Din rail TS-35/7.5 or 15 mountable • -20~70°C operating temperature
SFP TRANSCEIVERS	
DIS-S301SX	1-port Mini-GBIC SFP to 1000BaseSX Multi-Mode Fibre Transceiver • up to 550 m • -40~85°C operating temperature
DIS-S302SX	1-port Mini-GBIC SFP to 1000BaseSX Multi-Mode Fibre Transceiver • up to 2 km • -40~85°C operating temperature
DIS-S310LX	1-port Mini-GBIC SFP to 1000BaseLX Single-Mode Fibre Transceiver • up to 10 km • -40~85°C operating temperature
Media Converter DIS-M100G-SW	Industrial 10/100/1000Base-T to SFP Media Converter • IP30-rated housing • -40~70°C operating temperature

* Available in UK only

SWITCH ACCESSORIES

SFP/SFP+ Transceivers

Fast Ethernet SFP Transceivers

MODEL		DEM-211
Standard		IEEE 802.3u 100 BASE-FX
Connector		Duplex LC
Cable Type (Maximum Distance)	Single-Mode	
	Multi-Mode	50/125 µm fibre (2 km) 62.5/125 µm fibre (2 km)
Wavelength		1310 nm
Power		3.3 V
Hot-Pluggable		•

Gigabit Ethernet SFP Transceivers

MODEL		DGS-712	DEM-310GT	DEM-311GT	DEM-312GT2
Standard		IEEE 802.3ab 1000BASE-T	IEEE 802.3z 1000BASE-LX	IEEE 802.3z 1000BASE-SX	IEEE 802.3z 1000BASE-SX
Connector		RJ45	Duplex LC	Duplex LC	Duplex LC
Cable Type (Maximum Distance)	Single-Mode		9/125 µm fibre (10 km)		
	Multi-Mode			50/125 µm fibre (550 m) 62.5/125 µm fibre (220 m)	62.5/125 µm fibre (1km) 50/125 µm fibre (2km)
	Cat	Cat5, Cat5e, Cat6			
Wavelength			1310 nm	850 nm	1310 nm
Power		3.3 V	3.3 V	3.3 V	3.3 V
Hot-Pluggable		•	•	•	•

10//25/40 Gigabit Ethernet SFP+/SFP28/QSFP+ Transceivers

MODEL		DEM-410T	DEM-431XT	DEM-432XT	DEM-S2801SR	DEM-S2801LR	DEM-QX01Q-SR4	DEM-QX10Q-LR4
Standard		IEEE 802.3an 10GBase-T	IEEE 802.3ae 10GBASE-SR	IEEE 802.3ae 10GBASE-LR	IEEE 802.3by 25GBASE-SR	IEEE 802.3cc 25GBASE-LR	40G BASE-SR4	40G BASE-LR4
Connector		RJ45	Duplex LC	Duplex LC	Duplex LC	Duplex LC	MPO	Duplex LC
Cable Type (Maximum Distance)	Single-Mode			9/125 µm fibre (10 km)		9/125 µm fibre (10 km)		9/125 µm fibre (10 km)
	Multi-Mode		50/125 µm fibre (OM2 - 82 m, OM3 - 300 m), 62.5/125 µm fibre (OM1 - 33m)		50/125 µm (OM3 - 70m, OM4 - 100m)		50/125 µm fibre Single 1x12 MPO receptacle (female) (OM3 MMF: 100 m, OM4 MMF: 150 m)	
	Cat	Cat5e, Cat6a (30 m)						
Wavelength			850 nm	1310 nm	850 nm	1310 nm	850 nm	1310 nm
Power		3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V	3.3 V
Hot-Pluggable		•	•	•	•		•	•

Switch Cables

MODEL	DEM-CB100S/300S	DEM-CB300QXS	DEM-CB100QXS-4XS	DEM-CB100Q28
Cable Series Type	SFP+ Direct Attach	QSFP+ Direct Attach	QSFP+ Direct Attach	QSFP28 Direct Attach
Standard	SFP MSA	SFP MSA	SFP MSA	SFP MSA
Device Rate	10 Gbps	40 Gbps	40 Gbps	100 Gbps
Connector Type	SFP+ Cable Assembly	QSFP+ Cable Assembly	QSFP+ to four 10G SFP+ Cable Assembly	QSFP28 to QSFP28 Cable Assembly
Wire AWG	30	30	30	30
Minimum Cable Bend Radius	23.5 mm	32 mm	23 mm	34.5 mm
Cable Length	100/300 cm	300 cm	100 cm	100 cm
Voltage	30 V AC	30 V AC	30 V AC	30 V AC
Current	0.5 A	0.5 A	0.5 A	0.5 A
Operating Temperature	-40℃ to 85℃	-40℃ to 85℃	-40℃ to 75℃	-40℃ to 75℃
Connectivity	Recommended for use only with D-Link Switching Products	Recommended for use only with D-Link Switching Products	Recommended for use only with D-Link Switching Products	Physical Stacking Cable for DXS-3610 Series

Media Converters

MEDIA CONVERTERS	DMC-300SC	DMC-810SC	DMC-G01LC	DIS-M100G-SW
Standards	10/100BASE-TX 100BASE-FX	1000BASE-T 1000BASE-LX	10/100/1000BASE-T SFP	1000BASE-T SFP
Connectors	SC / RJ45	SC / RJ45	SFP / RJ45	SFP / RJ45
Data Rate	100 Mbps	1 Gbps	10/100/1000 Mbps	1 Gbps
Fibre Type	Multi-Mode	Single-Mode	Dependent of SFP	Dependent of SFP
Maximum Distance	2 km	Up to 20 km	Dependent of SFP	Dependent of SFP
Operating Temperature	0 ~ 40℃	0 ~ 40℃	0 ~ 40℃	-40 ~ 70℃
IP-Rating	N/A	N/A	N/A	IP30

* With multiple units

Harness the power of 5G and experience multigigabit mobile internet speeds. 5G offers faster internet speeds with lower latency than most traditional copper and fibre networks.

With the freedom to deploy anywhere there is 5G coverage, businesses and homes can enjoy multigigabit internet, even in remote and rural locations. Enjoy streaming the latest movie in 4K around the house on multiple devices or use the latest Cloud/SaaS applications in a busy office.

made in TAIWAN

The **DWP-1010** is a **5G outdoor modem/router** designed to be mounted externally for the optimal 5G reception. Enjoy 5G download speeds of up to **4 Gbps** without the physical wires or fibres. Integrated **6 x 5G antennas** maximise reception, while the **2.5 Gigabit PoE port** minimises connection bottleneck and allows you to connect and power through a single cable.

Model	DWP-1010	DWR-978
Product name	5G/LTE Outdoor CPE	5G AC2600 Wi-Fi Router
Indoor/outdoor (IP-rating)	Outdoor (IP67)	Indoor
Mount	Wall and pole	Desktop
Wireless standard	(For installation and maintenance only)	Wave 2 Wireless AC2600
Wireless speed		800 Mbps 2.4 GHz 1732 Mbps 5 GHz
Dual-band		●
MU-MIMO		●
Guest Wi-Fi network		●
Wi-Fi Antennas	Internal	Internal
WPA3		●
4G/5G Antennas	Internal	Internal & detachable external
Type of WAN	5G NR Sub 6 GHz: n1/3/20/28/77/78 (D/L: 4 Gbps, U/L: 620 Mbps)	Gigabit Ethernet, 5G NR Sub 6 GHz: n1/3/20/28/78 (D/L: 1.6 Gbps, U/L: 150 Mbps)
4G/LTE fallback	●	●
Integrated SIM card slot	●	●
Wired LAN speed	2.5 Gigabit	Gigabit
Number of LAN ports	1	4
PoE	802.3at	
Fail-safe Internet		●
USB port		USB 2.0 x 1

nuclias

People simply want things to work as they should, and network management is no exception. D-Link designed Nuclias to be a networking solution with a simple and user-orientated design, packed with rich features and functionality, designed to address the needs of everyone.

nuclias cloud

Simplicity

Nuclias Cloud allows any organisation with any level of IT resource to quickly and easily set up, configure, monitor, troubleshoot, and manage their network deployment remotely through a web browser, or the dedicated Nuclias tablet app.

Zero-Touch Deployment	Zero-touch deployment and reduced installation and configuration costs thanks to a centralised, profile-based cloud management system.
Hassle-Free Management	Nuclias Cloud is a turnkey solution with simple installation and management, designed to work even if the connection to the cloud is interrupted.
Unlimited Scalability	Suitable for small branch offices to large networks, Nuclias Cloud provides unlimited capacity and uncompromised throughput with its low in-band data management footprint.

Main features

- Zero-touch provisioning
- Role-based administration
- Auditable change logs
- Authentication via customisable captive portal, 802.1x and RADIUS server
- Social login for Wi-Fi access supported
- Advanced traffic report and data analysis
- Intuitive web-based interface with multilingual support
- Automatic monitoring and alerts
- Over-the-web firmware upgrades
- Searchable network-wide event log
- Intuitive VLAN Configuration
- Cloud based RF Optimisation

Nuclias Connect is the ideal centralised network management solution for SMB and SME networks. Nuclias Connect makes it easier to analyse, automate, configure, optimise, scale, and secure a network – delivering the convenience of an Enterprise-grade management solution, at an SMB price.

Free Software Download

Free to download software for Windows and Linux providing centralised management for a wide range of D-Link access points.

Self-Optimising Network

Nuclias Connect automatically adjusts access point transmission power to optimise coverage as well as self-heal in the event of device failure.

Local Management

Nuclias Connect can be installed on a local as well as privately hosted cloud server, meaning all the data is kept private. Alternatively, Nuclias Connect Hub* is a dedicated controller preloaded with the Nuclias Connect management software

Retailers

Hotels

Branch Offices

Schools & Universities

Corporate Buildings

Customisable

nuclias connect

Main features

- Free-to-Download Management Software
- License-Free Access Points
- Backwards-Compatibility
- Intuitive Interface
- Inexpensive Hardware Controller (Nuclias Connect Hub)
- Traffic Reporting & Analytics
- Remote Config & Batch Config
- Multi-Tenant & Role-based Administration
- Searchable & Auditable Event & Change Logs
- 802.1x and RADIUS Server, POP3, LDAP
- Multilingual Support
- Front-Desk Ticket Management
- Authentication and Payment Gateway (Paypal)
- Integration via Customisable Captive Portal

Nuclias Connect Hub

Flexibility to Meet Your Needs

- Free software download or dedicated Nuclias Connect Hub*
- Monitoring and remote management of wireless APs on your network
- Control & analytics of a broad or fine granularity, presentable in a variety of formats.
- Manage a variety of distributed deployments, including the option to configure settings and admin accounts in a specific manner for each deployment.
- Expand from a small network to a larger one (up to 1,000 APs)

Insights at a Glance

- Gain an extensive understanding of your network through usage analytics and status reports which can be viewed at a glance.
- Insights derived from traffic data can create business value.
- Traffic can be viewed across the entire network, to the level of a single AP.
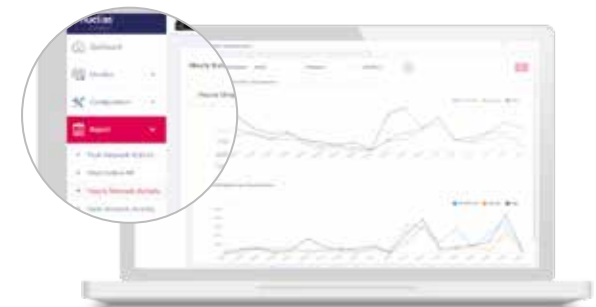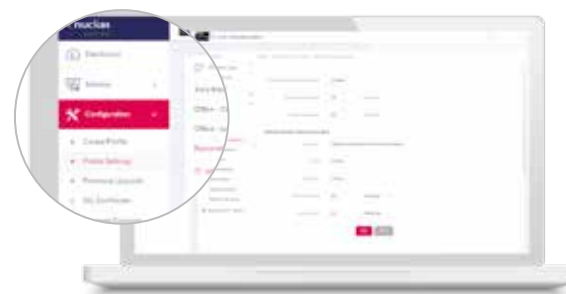
NUCLIAS CLOUD

nuclias cloud

Complete cloud-managed networking solution for small to medium-sized organisations with one or more sites.

Zero-touch provisioning

Simpler to install and easier to manage

€ **Pay-as-you grow** Subscription

Wi-Fi coverage and network capacity are provided by high-performance Access Points and Managed Switches deployed on site, while configuration and ongoing management can be carried out remotely through a web browser or tablet. Zero-touch provisioning and centralised cloud-based control make the network simpler to install and easier to manage, without the need to have specialised equipment or personnel onsite. SSL encrypted, out-of-band network monitoring and management ensures secure connectivity whilst minimising bandwidth requirement.

Wave 2 Cloud-Managed Access Points

MODEL	DBA-1210P	DBA-2520P	DBA-2820P	DBA-3620P	DBA-3621P
Indoor/Outdoor	Indoor	Indoor	Indoor	Outdoor (IP55)	Outdoor (IP67)
Surge/ESD Protection					4kV/4kV
Wireless standards	Simultaneous Dual-band a/n/ac (Wave 2) and b/g/n				
Antenna	2 x 2 embedded	3 x 3 embedded	4 x 4 embedded	2 x 2 embedded	2 x 2 detacheable
Maximum wireless speed	867 Mbps - 5 GHz 300 Mbps - 2.4 GHz	1,300 Mbps - 5 GHz 600 Mbps - 2.4 GHz	1,733 Mbps - 5 GHz 800 Mbps - 2.4 GHz	867 Mbps - 5 GHz 400 Mbps - 2.4 GHz	867 Mbps - 5 GHz 400 Mbps - 2.4 GHz
MU-MIMO	•		•	•	•
Power-over-Ethernet	• (802.3af)	• (802.3at)	• (802.3at)	• (802.3af)	• (802.3af)
Wired interface	1 x Gigabit Ethernet	2 x Gigabit Ethernet	2 x Gigabit Ethernet	2 x Gigabit Ethernet	2 x Gigabit Ethernet
Type of Housing	Plastic	Plastic	Plastic	Plastic	Metal
WPA3 Wi-FI Encryption	•	•	•	•	•

Wi-Fi 6/802.11ax Cloud-Managed Access Points

MODEL	DBA-X1230P	DBA-X2830P
Indoor/Outdoor	Indoor	Indoor
Wireless standards	Simultaneous Dual-band a/n/ac/ax and b/g/n/ax	
Antenna	2 x 2 embedded	4 x 4 embedded
Maximum wireless speed	1200 Mbps - 5 GHz 600 Mbps - 2.4 GHz	2402 Mbps - 5 GHz 1147 Mbps - 2.4 GHz
MU-MIMO	•	•
Power-over-Ethernet	• (802.3at)	• (802.3at)
Wired interface	1 x Gigabit Ethernet	1 x 2.5G Ethernet, 1 x Gigabit Ethernet
Type of Housing	Plastic	Plastic
WPA3 Wi-FI Encryption	•	•

SD-WAN Gateway

MODEL	DBG-2000
Number of Gigabit ports	4
Configurable WAN (load balancing)/LAN/DMZ ports	2
Console port	•
Firewall throughput	1.8 Gbps
3DES/AES	450 Mbps
SSL VPN	200 Mbps
Maximum concurrent sessions	200,000
Maximum IPsec VPN, PPTP/L2TP, SSL, GRE VPN tunnel	200
Intrusion prevention system	•
Dynamic web content filtering	•

Gigabit Cloud-Managed Switches

Gigabit Ethernet
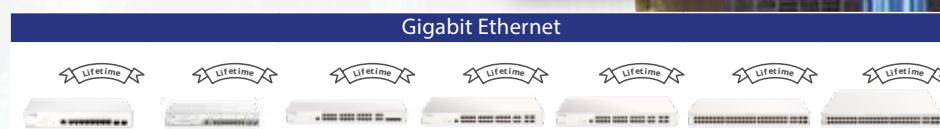
	MODEL	DBS-2000-10	DBS-2000-10MP	DBS-2000-28	DBS-2000-28P	DBS-2000-28MP	DBS-2000-52	DBS-2000-52MP
HARDWARE	Number of Gigabit ports	8	8	24	24	24	48	48
	Number of Combo 1000BASE-T/SFP ports			4	4	4	4	4
	Number of SFP ports	2	2					
	Switching capacity	20 Gbps	20 Gbps	56 Gbps	56 Gbps	56 Gbps	104 Gbps	104 Gbps
	PoE standards		802.3af, 802.3at		802.3af, 802.3at	802.3af, 802.3at		802.3af, 802.3at
	PoE power budget		130 W		193 W	370 W		370 W
	PoE capable ports		Ports 1-8, up to 30 W		Ports 1-24, up to 30 W	Ports 1-24, up to 30 W		Ports 1-48, up to 30 W
	Time-based PoE		•		•	•		•
	Fanless	•	•	•			•	
	802.3az EEE	•	•	•	•	•	•	•
	Power supply type	Internal	Internal	Internal	Internal	Internal	Internal	Internal
L2	MAC address	8K	8K	8K	8K	8K	16K	16K
	802.1D STP, 802.1w RSTP	•	•	•	•	•	•	•
	802.3ad link aggregation	•	•	•	•	•	•	•
VLAN	VLAN group (max static)	256	256	256	256	256	256	256
	Port-based VLAN, Voice VLAN	•	•	•	•	•	•	•
SECURITY	SSL	•	•	•	•	•	•	•
	ACL	•	•	•	•	•	•	•
	Port security	•	•	•	•	•	•	•

NUCLIAS CONNECT

nuclias connect

A free network management software with robust functionality, highly scalable, and end-to-end control.

MODEL	DAP-2610	DAP-2680	DAP-2682	DAP-X2810	DAP-X2850	DAP-X3060	DAP-2662	DAP-3666	DIS-2650AP	DIS-3650AP
HARDWARE										
WiFi4EU/Hotspot 2.0 compatible							•	•		
Wireless standards	Simultaneous a/n/ac (Wave 2) and b/g/n	Simultaneous a/n/ac (Wave 2) and b/g/n	Simultaneous a/n/ac (Wave 2) and b/g/n	Simultaneous a/n/ac/ax (Wi-Fi 6) and b/g/n/ax	Simultaneous a/n/ac/ax (Wi-Fi 6) and b/g/n/ax	Simultaneous a/n/ac/ax (Wi-Fi 6) and b/g/n/ax	Simultaneous a/n/ac (Wave 2) and b/g/n	Simultaneous a/n/ac (Wave 2) and b/g/n	Simultaneous a/n/ac (Wave 2) and b/g/n	Simultaneous a/n/ac (Wave 2) and b/g/n
802.11k/v/r fast roaming	• (802.11k/r only)			• (802.11k/r only)	• (802.11k/r only)	• (802.11k/r only)	•	•	• (802.11k/r only)	• (802.11k/r only)
Wireless frequency range	2.4 to 2.4835GHz 5.15 to 5.875GHz	2.4 to 2.4835 GHz 5.15 to 5.875 GHz	2.4 to 2.4835 GHz 5.15 to 5.85 GHz	2.4 to 2.483 GHz, 5.15 to 5.35 GHz, 5.47 to 5.85 GHz	2.4 to 2.483 GHz, 5.15 to 5.35 GHz, 5.47 to 5.85 GHz	2.4 to 2.483 GHz, 5.15 to 5.35 GHz, 5.47 to 5.85 GHz	2.4 to 2.4835 GHz 5.15 to 5.875 GHz	2.4 to 2.4835 GHz 5.15 to 5.875 GHz	2.4 to 2.483 GHz, 5.15 to 5.35 GHz, 5.47 to 5.85 GHz	2.4 to 2.483 GHz, 5.15 to 5.35 GHz, 5.47 to 5.85 GHz
Maximum wireless speed	867 Mbps - 5 GHz 400 Mbps - 2.4 GHz	1300 Mbps - 5 GHz 450 Mbps - 2.4 GHz	1700 Mbps - 5 GHz 600 Mbps - 2.4 GHz	1200 Mbps - 5 GHz 600 Mbps - 2.4 GHz	2402 Mbps - 5 GHz 1147 Mbps - 2.4 GHz	2401 Mbps - 5 GHz 574 Mbps - 2.4 GHz	867 Mbps - 5 GHz 300 Mbps - 2.4 GHz	867 Mbps - 5 GHz 300 Mbps - 2.4 GHz	867 Mbps - 5 GHz 300 Mbps - 2.4 GHz	867 Mbps - 5 GHz 300 Mbps - 2.4 GHz
MIMO	• (MU-MIMO)	• (MU-MIMO)	• (MU-MIMO)	• (MU-MIMO)	• (MU-MIMO)	• (MU-MIMO)	• (MU-MIMO)	• (MU-MIMO)	• (MU-MIMO)	• (MU-MIMO)
Antenna type	2 x 2 embedded omni-directional	3 x 3 embedded omni-directional	4 x 4 embedded omni-directional	2 x 2 embedded omni-directional	4 x 4 embedded omni-directional	2 x 2 embedded omni-directional	2 x 2 embedded omni-directional	2 x 2 embedded omni-directional	2 x 2 detachable omni-directional	2 x 2 detachable omni-directional
Antenna gain	3 dBi for 2.4GHz 3 dBi for 5GHz	3.6 dBi for 2.4GHz 4.2 dBi for 5GHz	3.7 dBi for 2.4GHz 4.8 dBi for 5GHz	3.2 dBi for 2.4GHz 4.2 dBi for 5GHz	3.5 dBi for 2.4GHz 5.5 dBi for 5GHz	3 dBi for 2.4GHz 3 dBi for 5GHz	3 dBi for 2.4GHz 3 dBi for 5GHz	6 dBi for 2.4GHz 6 dBi for 5GHz	2.5 dBi for 2.4GHz 3 dBi for 5GHz	3 dBi for 2.4GHz 5 dBi for 5GHz
Power-over-Ethernet (PoE)	• (802.3af)	• (802.3at)	• (802.3at)	• (802.3at)	• (802.3at)	• (802.3at)	• (802.3af)	• (802.3af)	• (802.3at)	• (802.3at)
DC power input									Dual 12 to 48 V DC	
Wired interface	1 x Gigabit	1 x Gigabit	2 x Gigabit	1 x Gigabit	1 x 2.5 Gigabit 1 x Gigabit	1 x 2.5 Gigabit	1 x Gigabit	2 x Gigabit	2 x Gigabit	2 x Gigabit
Type of housing	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Metal	Metal
Outdoor housing (IP rating)								• (IP68)		• (IP67)
Surge/ESD protection									• (2 kV/15 kV)	• (6 kV/8 kV)
DIN rail mountable									•	•
WIRELESS										
Maximum number of SSIDs	16	16	16	16	16	16	16	16	16	16
Multiple modes (AP, WDS with AP, WDS / bridge, client)	•	•	•	•	•	•	•	•	•	•
WMM-PS/802.11e (U-APSD)	•	•	•	•	•	•	•	•	•	•
Wi-Fi scheduler	•	•	•	•	•	•	•	•	•	•
AP traffic load balance	•	•	•	•	•	•	•	•	•	•
SECURITY										
WEP/WPA/WPA2-Per./Ent.	•	•	•	•	•	•	•	•	•	•
WPA3-Per./Ent.	WPA3-Per. only			•	•	•				WPA3-Per. only
WLAN partition, Station Isolation	•	•	•	•	•	•	•	•	•	•
SSID broadcast disable	•	•	•	•	•	•	•	•	•	•
MAC address filtering	•	•	•	•	•	•	•	•	•	•
802.1X authentication	•	•	•	•	•	•	•	•	•	•
NETWORK										
DHCP server (in standalone mode)	•	•	•	•	•	•	•	•	•	•
802.1D STP, IGMP snooping, ARP spoofing, SNTP	•	•	•	•	•	•	•	•	•	•
IPv6	•	•	•	•	•	•	•	•	•	•
MANAGEMENT										
WEB	•	•	•	•	•	•	•	•	•	•
SNMP (v1, v2c, v3)	•	•	•	•	•	•	•	•	•	•
CLI, Telnet, SSH	•	•	•	•	•	•	•	•	•	•
Syslog	•	•	•	•	•	•	•	•	•	•
Works with Nuclias Connect	•	•	•	•	•	•	•	•	•	•

BUSINESS WIRELESS

Managing Your Network

D-Link's network management options allow you to centrally manage and monitor multiple wireless access points and switches either within a local network or remotely. Furthermore with our Nuclias Cloud-Managed Networks, you can quickly and easily deploy and monitor unlimited number of devices through a simple pay as you grow subscription model.

Managed Wireless

		Nuclias Cloud	Nuclias Connect	Nuclias Connect Hub (DNH-100)	DWC-1000 (H/W vers. C1)	DWC-2000
	Number of Gigabit ports			1 x LAN	4 x LAN, 2 x WAN	4 x Combo LAN
	Type of controller	Cloud-based	Software-based (**Free**)	Hardware-based	Hardware-based	Hardware-based
	Standard number of APs / switches	N/A, Subscription per AP	1500	100	12 (48 with cluster of 4 x DWC-1000)	64 (256 with cluster of 4 x DWC-2000)
WLAN MANAGEMENT	Maximum number of APs through optional license upgrade	Unlimited APs supported through subscription			66 (264 with cluster of 4 x DWC-1000)	256 (1024 with cluster of 4 x DWC-2000)
	Supported AP	DBA-1210P, DBA-2520P, DBA-2820P, DBA-3620P, DBA-3621P, DBA-X1230P DBA-X2830P	DAP-2610, DAP-2622, DAP-2662. DAP-2680, DAP-2682, DAP-3711, DAP-3712, DAP-X2810, DAP-X2850, DAP-3666, DIS-2650AP, DIS-3650AP		DWL-6610AP, DWL-6610APE, DWL-6620APS, DWL-7620AP, DWL-8620AP, DWL-8620APE, DWL-8720AP, DWL-X8630AP	
	Supported switches	DBS-2000-10MP, DBS-2000-28, DBS-2000-28P. DBS-2000-28MP DBS-2000-52, DBS-2000-52MP	DGS-1100V2 Series Smart Managed Switches (10 ports and above) DGS-1210 Series Smart Managed Switches (hardware version Gx and Fx)			
	Supported gateway	DBG-2000				
	Zero touch provisioning for AP deployment	•				
	AP geolocation	• (with Google Maps)				
	Controller redundancy				•	•
	Advanced traffic report and data analysis	•	•	•		
	Visualised topology	•	•	•		
	NAT pass through (AP)	•	•	•		
	Multi-tenancy	•	•	•		
	WIDS				•	•
	IPv6	•	•	•	•	•
AUTHENTICATION	Captive portal	•	•	•	•	•
	Authentication method	802.1x, RADIUS, Local DB, Facebook, Google login, external RADIUS, LDAP, AD Local DB, Twitter, SMS	802.1x, RADIUS, Local DB, external RADIUS, LDAP, POP3, Wi-Fi passcode, AD Local DB, external RADIUS, NAP		802.1x, RADIUS, Local DB, LDAP, POP3, Wi-Fi passcode, AD Local DB, external RADIUS, NAP	
	Payment gateway (Paypal, WorldPay, SecureNet, Authorise.Net)		•	•	•	•
	Web redirect	•	•	•	•	•
RF	Auto transmit power control	•	•	•	•	•
	Self-healing around failed APs	•	•	•	•	•
	Multiple SSID per Radio (AP)	8	8	8	16	16
	Band steering	•	•	•	•	•
WIRELESS FEATURE	Seamless roaming	•			•	•
	L2 roaming	•	•	•	•	•
	Bandwidth optimisation	•	•	•	• (QoS)	• (QoS)
	Load balancing				•	•
MANAGEMENT	Web-based user interface	HTTPS	HTTPS	HTTPS	HTTPS	HTTPS
	Firmware/module online check	•	•	•		
	Remote management	•	•	•	•	•
	Cloud hosting	Native	AWS / Azure	AWS / Azure		
	Firmware/configuration upgrade by scheduling	•	•	•		
NETWORKING	WAN fail-over				•	
	Link aggregation					• (LACP)
	Layer 3 routing (table size)				• (100)	• (2048)
	Firewall				•	
	VLAN	•	•	•	•	•
	Support VPN gateway				• (VPN license upgrade)	
	Build in DHCP server	•			•	•
OTHERS	Optional license upgrades				DWC-1000-AP6-LIC DWC-1000-VPN-LIC	DWC-2000-AP32-LIC DWC-2000-AP64-LIC DWC-2000-AP128-LIC

❯ Saves time and resources by configuring and managing multiple access points from a cloud, software or hardware-based wireless controller.

MODEL	DAP-2020	DAP-3711	DAP-3712	DWL-6610AP/APE	DWL-6620APS	DWL-8620AP/APE	DWL-8720AP	DWL-X8630AP
HARDWARE								
Wireless standards	b/g/n	a/n/ac	a/n/ac	Simultaneous Dual-Band a/n/ac and b/g/n	Simultaneous Dual-Band a/n/ac (Wave 2) and b/g/n	Simultaneous Dual-Band a/n/ac (Wave 2) and b/g/n	Simultaneous Dual-Band a/n/ac (Wave 2) and b/g/n	Simultaneous Dual-Band a/n/ac/ax and b/g/n
Wireless frequency range	2.4 to 2.4835 GHz	5180~5320 MHz, 5745~5825 MHz	5180~5320 MHz, 5745~5825 MHz	2.4 to 2.4835GHz 5.15 to 5.875GHz	2.4 to 2.4835GHz 5.15 to 5.875GHz	2.4 to 2.4835GHz 5.15 to 5.875GHz	2.4 to 2.4835GHz 5.15 to 5.85 GHz	2.4 to 2.4835GHz 5.15 to 5.85 GHz
Maximum wireless speed	300 Mbps - 2.4 GHz	867 Mbps - 5 GHz	867 Mbps - 5 GHz	867 Mbps - 5 GHz 300 Mbps - 2.4 GHz	867 Mbps - 5 GHz 400 Mbps - 2.4 GHz	1733 Mbps - 5 GHz 800 Mbps - 2.4 GHz	867 Mbps - 5 GHz 400 Mbps - 2.4 GHz	2402 Mbps - 5 GHz 1147 Mbps - 2.4 GHz
MIMO	•	•	•	•	• (MU-MIMO)	• (MU-MIMO)	• (MU-MIMO)	• (MU-MIMO)
Antenna type	2 x 2 detachable omni-directional	2 x 2 embedded sector	2 x 2 dish sector	2 x 2 embedded / detachable omni-directional	2 x 2 embedded omni-directional	4 x 4 embedded / detechable omni-directional	2 x 2 detachable omni-directional	4 x 4 embedded omni-directional
Smart Antennas								
Antenna gain	5 dBi	15 dBi	23 dBi	4 / 3 dBi for 2.4GHz 4 dBi for 5GHz	4 dBi for 2.4GHz 6 dBi for 5GHz	3 dBi for 2.4GHz 4 dBi for 5GHz	3.5 dBi for 2.4GHz 5 dBi for 5GHz	3 dBi for 2.4GHz 4 dBi for 5GHz
Power-over-Ethernet		• (proprietary)	• (802.3at)	• (802.3af)	• (802.3at)	• (802.3at)	• (802.3af)	• (802.3at)
Wired interface	1 x Fast Ethernet	2 x Gigabit Ethernet	1 x Gigabit Ethernet	1 x Gigabit Ethernet	2 x Gigabit Ethernet	2 x Gigabit Ethernet	1 x Gigabit Ethernet	1 x Gigabit Ethernet 1 x 2.5G Ethernet
Link Aggregation					LAG	LACP		LACP
Console port				•	•	•	•	•
Type of housing	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Metal	Plastic
Outdoor housing (IP rating)		• (IP66)	• (IP66)				• (IP67)	
Plenum rated (UL-2043)				•	•	• (DWL-8620AP only)		•
WIRELESS MODES								
Access point (AP)	•	•	•	•	•	•	•	•
WDS with AP	•	•	•	•	•	•	•	•
WDS / bridge	•	•	•	•	•	•	•	•
WIRELESS FEATURES								
Maximum number of SSIDs	1	8	8	32 (16 per radio)	32 (16 per radio)	32 (16 per radio)	32 (16 per radio)	32 (16 per radio)
Auto channel selection	•	•	•	•	•	•	•	•
WMM-PS/802.11e (U-APSD), AP load balance	•	•	•	•	•	•	•	•
Wi-Fi scheduler	•	•	•	•	•	•	•	•
L2 roaming				•	•	•	•	•
SECURITY								
WPA3 - 128/192-bit Personal/Enter- prise wireless encryption					•	•	•	•
WEP 64/128bit, WPA/WPA2-Personal/ Enterprise, TKIP/AES encryption	•	• (no WEP encryption)	• (no WEP encryption)	•	• (no WEP encryption)	• (no WEP encryption)	• (no WEP encryption)	• (no WEP encryption)
WPA/WPA2-PSK over WDS				•	•	•	•	•
WLAN partition	•	•	•	•	•	•	•	•
SSID broadcast disable	•	•	•	•	•	•	•	•
Rogue AP detection, station isolation	• (no Rogue AP dect.)	• (no Rogue AP dect.)	• (no Rogue AP dect.)	•	•	•	•	•
MAC address filtering, 802.1X authentication	•	•	•	•	•	•	•	•
WIRELESS CONTROLLER MANAGED FEATURES								
Rogue AP mitigation				•	•	•	•	•
L2/L3 fast roaming				•	•	•	•	•
WIDS/WIPS				•	•	•	•	•
Auto-channel, auto-RF management				•	•	•	•	•
AP load balance				•	•	•	•	•
Captive portal				•	•	•	•	•
View neighbour AP information				•	•	•	•	•
Supported D-Link Wireless Controller				DWC-1000, DWC-2000	DWC-1000, DWC-2000	DWC-1000, DWC-2000	DWC-1000, DWC-2000	DWC-1000, DWC-2000
MANAGEMENT								
WEB	•	•	•	•	•	•	•	•
SNMP (v1, V2c, v3)				•	•	•	•	•
CLI, Telnet, SSH				•	•	•	•	•
Syslog		•	•	•	•	•	•	•

USB-C

One Port,
Many Possibilities

D-Link's range of USB-C hubs and adapters allow you to instantly add additional connections to your computers and ultra-portable laptops. Simply connect to an available USB Type-C or Thunderbolt 3 port and enjoy additional ports, wired connectivity and video output in seconds. The compact designs means that you can easily slip into your pocket or laptop bag and take it with you.

4K HDMI GIG

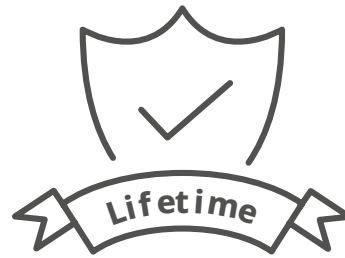| Model	DUB-E130	DUB-E250	DUB-H410	DUB-M420	DUB-M520	DUB-M530	DUB-M610	DUB-M810	DUB-V310
Number of ports	1	1	4	4	5	5	6	8	3
USB 3.0			4	2	2	2	2	3	
USB-C with power				1 (up to 60W)	1 (up to 60W)		1 (up to 100W)	1 (up to 100W)	
Gigabit Ethernet	1					1		1	
2.5 Gigabit Ethernet		1							
Display output				HDMI x 1	HDMI x 1	HDMI x 1	HDMI x 1	HDMI x 1	HDMI x 1, DP x 1, VGA x 1
Maximum Resolution				Up to 4K	Up to 4K	Up to 4K	Up to 4K	Up to 4K	Up to 4K[1]
Card reader						SD x 1 microSD x 1	SD x 1 microSD x 1	SD x 1 microSD x 1	
Compatible with	Computer with USB-C or Thunderbolt 3 port(s) running Microsoft Windows, Mac OS or Chrome OS Smartphones with USB-C port running Android OS[2]								

Model	DUB-2315	DUB-2325	DUB-2327	DUB-2332	DUB-2333	DUB-2334	DUB-2335	DUB-2340
Number of ports	1	5	6	4	5	5	6	5
Includes USB-A to USB-C adapter	●			●				
USB 3.0		2	2	3	3	3	3	3
Quick Charge USB 3.0								1
USB-C with power		1 (no power)	1 (up to 60W)		1 (up to 60W)	1 (up to 60W)	1 (up to 100W)	1 (up to 60W)
Gigabit Ethernet				1		1	1	
2.5 Gigabit Ethernet	1							
Display output			HDMI x 1		HDMI x 1		HDMI x 1	
Maximum Resolution			Up to 4K		Up to 4K		Up to 4K	
Card reader		SD x 1 microSD x 1	SD x 1 microSD x 1					
Compatible with	Computer with USB-C or Thunderbolt 3 port(s) running Microsoft Windows, Mac OS or Chrome OS Smartphones with USB-C port running Android OS[2]							

[1] Up to 4K (HDMI/DP), up to 1080p (VGA)
[2] Video output works with smartphones supporting DisplayPort Alternate Mode. Card reader and USB drive access function compatible with smartphones supporting USB On-The-Go (OTG).

Limited Lifetime Warranty

The Limited Lifetime Warranty on our business class switching and wireless products reflects our commitment to provide even more quality, performance and value. These include:

- Smart Switches (including integrated fans and power supplies)
- Managed Switches (including integrated fans and power supplies but excluding modules and external power supplies)
- Nuclias Cloud and Nuclias Connect products
- Business Wireless Products and Unified Service routers (excluding external power supplies, excludes SoHo Access Points)

Register your eligible D-Link product within 30 days of purchase to qualify for the Limited Lifetime Warranty.

Register at https://dlink.to/productregister

D-Link is dedicated to setting new standards with our industry-leading business-class networking, wireless, and surveillance products. In fact, we're so confident in the reliability of our products, we offer warranties that truly demonstrate our commitment – giving you full assurance that we stand behind every product, every time.

Your network is the backbone of your business. Keeping it running is essential, even if the unexpected happens. D-Link Assist is a rapid-response technical support service that replaces faulty equipment quickly and efficiently. Maximising your uptime and giving you the confidence that instant support is only a phone call away.

Complimentary Next Business Day Service, as Standard

All D-Link products with 5-year or Limited Lifetime warranty come with complimentary Next Business Day Service. D-Link will send out a replacement product to you on the next business day after acceptance of a product failure. On receipt of the replacement product, you simply arrange the return of the defective product to us. Any products with a 2-year/3-year warranty can also benefit from the Next Business Day advance replacement service when the optional 3-year warranty extension has been purchased.

For more information please refer to eu.dlink.com/warranty

D-Link®

eu.dlink.com