



D-Link Smart Managed Switches User Manual

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D-Link Smart Managed Switches User Manual



Smart Managed Switches

Features

Green Technology

Link status detection

- Port and LED shut-off
- System hibernation
- Time-based PoE (PoE models only)

Security Features

- Access Control Lists (ACLs)
- D-Link Safeguard Engine helps the CPU resist broadcast/multicast/unicast flooding
- Port Security supports up to 64 MAC addresses per port
- ARP Spoofing Prevention
- IMPB Support

Intuitive Management

- D-Link Network Assistant (DNA) utility
- Multi-lingual Web UI
- Built-in SNMP MIB for remote NMS (D-View 7.0)
- Full command line support via console port

Advanced Features

- Static routing
- Surveillance Mode
- Auto Voice VLAN
- Dual software images
- Dual configuration files
- Embedded 6kV surge protection on all Gigabit Ethernet access ports

The D-Link DGS-1250 Series Smart Managed Switches are the latest generation of switches to provide increased

Power over Ethernet (PoE) output, high port density, multiple management interfaces, and advanced Layer 2 features. With all of these features combined, the DGS-1250 Series provides a cost-efficient and flexible solution for expanding any business network.

Seamless Integration

The DGS-1250 Series includes a wide range of port and media types. All models in the DGS-1250 Series feature four 10G SFP+ ports, allowing you to choose the most suitable media type for your requirements. All DGS-1250 Series PoE switches include support for IEEE 802.3af/at and higher power budgets, allowing more PoE devices to be powered by the switch and for devices to be installed in remote locations without immediate access to power outlets. Furthermore, the DGS-1250-28XMP and DGS-1250-52XMP can supply PoE power up to 370 W providing even more power for connected devices.

Advanced Features

The DGS-1250 Series comes equipped with a complete lineup of L2 features, including IGMP snooping, port mirroring, Spanning Tree Protocol (STP), and Link Aggregation Control Protocol (LACP). The IEEE 802.3x Flow Control function allows servers to directly connect to the switch for fast, reliable data transfers. The DGS-1250 Series also supports advanced features such as static routing, which allow network administrators to divide the network into VLANs, increasing network efficiency. Network maintenance features include loopback detection and cable diagnostics. Loopback detection significantly speeds up troubleshooting by automatically detecting and shutting down switching loops. The cable diagnostics feature, designed primarily for administrators and customer service representatives, determines the cable quality and quickly discovers errors, allowing for swift diagnostics and maintenance.

Surveillance Mode

The DGS-1250 Series supports Auto Voice VLAN and Surveillance Mode, which allows voice and video traffic to be automatically identified and handled differently than regular network traffic. Auto Voice VLAN detects Voice over IP (VoIP) traffic and automatically segments it from the rest of the network, adding a layer of isolation and allowing Quality of Service (QoS) to be applied. Surveillance Mode detects compatible ONVIF cameras and places them in a surveillance VLAN, allowing a single switch to be used for voice, video, and data, removing the need for dedicated hardware and reducing maintenance costs. Surveillance Mode also includes its own Web UI, making surveillance features easily accessible and simplifying management of your surveillance network.

Advanced Access Control

D-Link's innovative Safeguard Engine helps to protect the switches against traffic flooding caused by malicious attacks. The DGS-1250 Series supports 802.1X port-based authentication, allowing clients to be authenticated through external RADIUS servers. The Access Control List (ACL) feature helps to enhance network security and helps to protect the internal IT network. The DGS-1250 Series also features Address Resolution Protocol (ARP) spoofing prevention, which helps to provide protection from attacks on the network that could allow an intruder to sniff data frames, modify traffic, or bring traffic to a halt altogether by sending fake ARP messages. To help prevent ARP spoofing attacks, the switch uses packet control ACLs to block invalid packets that contain fake ARP messages. The DHCP server screening filters DHCP replies on unauthorized ports to prevent them from being assigned an IP address.

Versatile Management

The DGS-1250 Series comes with the D-Link Network Assistant (DNA) utility that enables administrators to remotely control their network down to the port level. The D-Link Network Assistant utility furthermore allows customers to easily discover multiple D-Link Smart Managed Switches within the same L2 network segment and display them onscreen for instant access. With this utility, users do not need to change the IP address of their PC.

This allows for simultaneous configuration and setup of all discovered devices, including password changes and firmware upgrades. The DGS-1250 Series supports Command Line Interface (CLI) through console port. SNMP is also supported which allows for the central management of network assets, remote configuration, and logging functions.

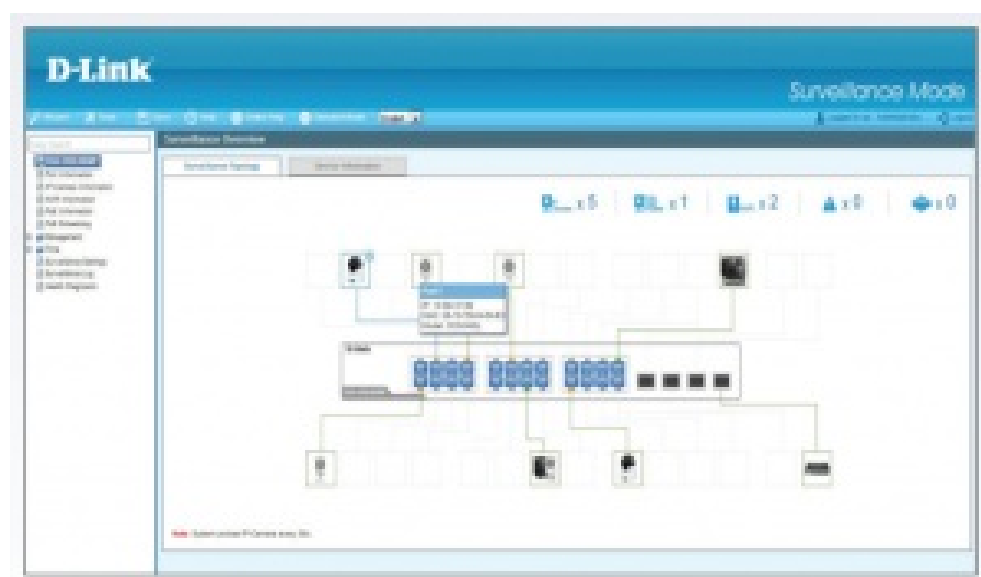
6kV Surge Protection

The DGS-1250 Series switches feature built-in 6kV surge protection on all PoE and non-PoE Ethernet access ports. This helps protect the switches against sudden electrical surges such as lightning strikes or unstable electrical current. Built-in 6kV surge protection helps reduce the chances of equipment being damaged from electrical surges, and effectively lowers maintenance costs by minimizing the need for expensive equipment repairs or replacement.

Lifetime Warranty

D-Link offers a Lifetime Warranty and Next Business Day (NBD) hardware replacement for the DGS-1250 Series Smart Managed Switches to further its commitment to product quality and long-term customer confidence.

Surveillance Topology Web Interface



D-Link Network Assistant (DNA)

The screenshot shows the D-Link Network Assistant (DNA) interface. The top bar indicates 'Default workspace' and '1 device / 100 devices'. The main area displays a table of network devices with the following columns: Name, IP Address, MAC, Model, Version, Status, and System Time. The table lists several switches and their associated IP addresses, MAC addresses, and models.

Name	IP Address	MAC	Model	Version	Status	System Time
Switch	192.168.1.1	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.2	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.3	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.4	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.5	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.6	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.7	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.8	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.9	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.10	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.11	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.12	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.13	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.14	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.15	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.16	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.17	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.18	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.19	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.20	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.21	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.22	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.23	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25
DGS-1250-24	192.168.1.24	88-8E-6D-4E-4E-4E	DGS-1250-24	1.0.0.0	Online	2023/10/25 10:25

Technical Specifications				
Model Number	<ul style="list-style-type: none">DGS-1250-28X-6 KV	<ul style="list-style-type: none">DGS-1250-28XM P-6KV	<ul style="list-style-type: none">DGS-1250-52X-6 KV	<ul style="list-style-type: none">DGS-1250-52XM P-6KV
Hardware Version	<ul style="list-style-type: none">A1			
General				
Interfaces	<ul style="list-style-type: none">24 x 10/100/1000BASE-T4 x 10G SFP+ ports	<ul style="list-style-type: none">24 x 10/100/1000BASE-T PoE4 x 10G SFP+ ports	<ul style="list-style-type: none">48 x 10/100/1000BASE-T4 x 10G SFP+ ports	<ul style="list-style-type: none">48 x 10/100/1000BASE-T PoE4 x 10G SFP+ ports
Port Standards	<ul style="list-style-type: none">IEEE 802.3 10BASE-T Ethernet (twisted-pair copper)IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper)IEEE 802.3u 100BASE-FX 100 Mbps over fiber opticIEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted-pair copper)IEEE 802.3z 1000BASE-X 1 Gbps over fiber opticIEEE 802.3az Energy-Efficient Ethernet (EEE)IEEE 802.3x Flow ControlIEEE 802.3ae 10 Gigabit EthernetIEEE 802.3af/at			
Network Cables	<ul style="list-style-type: none">UTP Cat. 5, Cat. 5e (100 m max.)			
Duplex Mode	<ul style="list-style-type: none">Full/Half-duplex for 10/100 MbpsFull-duplex for 1000 Mbps			
Media Interface Exchange	<ul style="list-style-type: none">Auto MDI/MDIX adjustment for all twisted-pair ports			

Performance				
Switching Capacity	<ul style="list-style-type: none">• 128 Gbps	<ul style="list-style-type: none">• 128 Gbps	<ul style="list-style-type: none">• 176 Gbps	<ul style="list-style-type: none">• 176 Gbps
Transmission Method	<ul style="list-style-type: none">• Store-and-forward			
MAC Address Table	<ul style="list-style-type: none">• 16K	<ul style="list-style-type: none">• 16K	<ul style="list-style-type: none">• 32K	<ul style="list-style-type: none">• 32K
Static MAC Addresses	<ul style="list-style-type: none">• 256 entries			
Maximum 64 Byte Packet Forwarding Rate	<ul style="list-style-type: none">• 95.24 Mpps	<ul style="list-style-type: none">• 95.24 Mpps	<ul style="list-style-type: none">• 130.95 Mpps	<ul style="list-style-type: none">• 130.95 Mpps
Packet Buffer Memory	<ul style="list-style-type: none">• 12 Mbits	<ul style="list-style-type: none">• 12 Mbits	<ul style="list-style-type: none">• 16 Mbits	<ul style="list-style-type: none">• 16 Mbits
CPU Memory	<ul style="list-style-type: none">• 2G DDR3			
Flash Memory	<ul style="list-style-type: none">• 64 MB			
PoE				
PoE Standard		<ul style="list-style-type: none">• IEEE 802.3af/at		<ul style="list-style-type: none">• IEEE 802.3af/at
PoE Capable Ports		<ul style="list-style-type: none">• 24		<ul style="list-style-type: none">• 48
PoE Power Budget		<ul style="list-style-type: none">• 370 W• 30 W per port		<ul style="list-style-type: none">• 370 W• 30 W per port

LEDs	
Power (per device)	✓
Link/Active/Speed (per RJ-45 port)	✓
Link/Active/Speed (per 10G SFP+ port)	✓

Physical				
Power Input	<ul style="list-style-type: none"> 100 to 240 V AC 50/60 Hz internal universal power supply 			
Maximum Power Consumption	<ul style="list-style-type: none"> 30.6 W/100 V 29.6 W/240 V 	<ul style="list-style-type: none"> PoE On: 455.1 W/100 V 431.5 W/240 V PoE Off: 38.6 W/100 V 39.1 W/240 V 	<ul style="list-style-type: none"> 51 W/100 V 51.2 W/240 V 	<ul style="list-style-type: none"> PoE On: 467.3 W/100 V 443.6 W/240 V PoE Off: 56.4 W/100 V 57.2 W/240 V
Standby Power Consumption	<ul style="list-style-type: none"> 8.7 W/100 V 9.3 W/240 V 	<ul style="list-style-type: none"> 18.5 W/100 V 19 W/240 V 	<ul style="list-style-type: none"> 23 W/100 V 23.5 W/240 V 	<ul style="list-style-type: none"> 27.8 W/100 V 28.4 W/240 V
Surge Protection	<ul style="list-style-type: none"> 6kV surge protection on all Ethernet access ports 			

Acoustics	<ul style="list-style-type: none"> • Max: 47.6 dB(A) • Min: 33.2 dB(A) 	<ul style="list-style-type: none"> • Max: 50.8 dB(A) • Min: 42.0 dB(A) 	<ul style="list-style-type: none"> • Max: 50.7 dB(A) • Max: 39.0 dB(A) 	<ul style="list-style-type: none"> • Max: 51.2 dB(A) • Min: 43.0 dB(A)
Heat Dissipation	<ul style="list-style-type: none"> • 104.346 BTU/hr (100 V) • 100.936 BTU/hr (240 V) 	<ul style="list-style-type: none"> • PoE On: • 1551.891 BTU/hr (100 V) • 1471.415 BTU/hr (240 V) • PoE Off: • 131.626 BTU/hr (100 V) • 133.331 BTU/hr (240 V) 	<ul style="list-style-type: none"> • 173.91 BTU/hr (100 V) • 74.592 BTU/hr (240 V) 	<ul style="list-style-type: none"> • PoE On: • 1593.493 BTU/hr (100 V) • 1512.676 BTU/hr (240 V) • PoE Off: • 192.324 BTU/hr (100 V) • 195.052 BTU/hr (240 V)
MTBF	<ul style="list-style-type: none"> • 743,482.45 hours 	<ul style="list-style-type: none"> • 463,430.16 hours 	<ul style="list-style-type: none"> • 589,984.72 hours 	<ul style="list-style-type: none"> • 309,053.10 hours
Operating Temperature	<ul style="list-style-type: none"> • -5 to 50°C (23 to 122°F) 			
Storage Temperature	<ul style="list-style-type: none"> • -20 to 70°C (-4 to 158°C) 			
Operating Humidity	<ul style="list-style-type: none"> • 0% to 95% relative humidity 			
Storage Humidity	<ul style="list-style-type: none"> • 0% to 95% relative humidity 			

Dimensions (L x W x H)	<ul style="list-style-type: none">• 440 x 140 x 44 mm (17.32 x 5.51 x 1.73 in)	<ul style="list-style-type: none">• 440 x 250 x 44 mm (17.32 x 9.84 x 1.73 in)	<ul style="list-style-type: none">• 440 x 210 x 44 mm (17.32 x 8.27 x 1.73 in)	<ul style="list-style-type: none">• 440 x 250 x 44 mm (17.32 x 9.84 x 1.73 in)
Weight	<ul style="list-style-type: none">• 1.75 kg (3.86 lbs)	<ul style="list-style-type: none">• 3.46 kg (7.63 lbs)	<ul style="list-style-type: none">• 3.01 kg (6.63 lbs)	<ul style="list-style-type: none">• 3.85 kg (8.49 lbs)
Certifications				
Safety	<ul style="list-style-type: none">• CB, UL, BSMI, CCC			
EMI	<ul style="list-style-type: none">• CE Class A, VCCI Class A, FCC Class A, IC, BSMI			
Software				

L2 Features	<ul style="list-style-type: none"> • MAC Address Table • Protocol • 16K entries • 32K entries (DGS-1250-52X/52XMP only) • IGMP Snooping • IGMP v1/v2/v3 Snooping • Supports 256 IGMP groups • Supports at least 64 static multicast addresses • IGMP per VLAN • Supports IGMP Snooping Querier • Loopback Detection • 802.3ad Link Aggregation: Both • Supports maximum 8 groups per per device and 8 ports per group • LLDP • LLDP-MED • Jumbo Frame • Supports 256 groups • Up to 12,000 bytes 	<ul style="list-style-type: none"> • Spanning Tree • 802.1D STP • 802.1W RSTP • 802.1s MSTP • Flow Control • 802.3x Flow Control • HOL Blocking Prevention • Port Mirroring • One-to-One • Many-to-One • Supports Mirroring for Tx/Rx/ • Multicast Filtering • Forwards all registered g • Filters all unregistered groups • Configurable MDI/MDIX • MLD snooping v1/v2 awaren • PD-Alive
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VLAN	<ul style="list-style-type: none"> • 802.1Q • VLAN Group • Max. 4094 static VLAN groups • Configurable VID from 1 – 4094 • Asymmetric VLAN 	<ul style="list-style-type: none"> • Auto Voice VLAN • Max. 10 user-defined OU • Max. 8 default OU • Auto Surveillance VLAN
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<p>Quality of Service (QoS)</p>	<ul style="list-style-type: none"> • 802.1p Quality of Service • 8 queues per port • Queue Handling • Strict • Weighted Round Robin (WRR) • Bandwidth Control • Port-based (ingress/egress, min granularity 10/100/1000 is 16 Kbps) 	<ul style="list-style-type: none"> • QoS based on: • 802.1p priority queues • DSCP • MAC address • EtherType • IP address • Protocol type • ToS • IP preference • IPv6 Traffic Class • TCP/UDP port
<p>L3 Features</p>	<ul style="list-style-type: none"> • IP interface • Supports 4 interfaces • IPv6 Neighbor Discovery (ND) 	<ul style="list-style-type: none"> • Static routing • 124 IPv4 static route entries • 50 IPv6 static route entries

<p>Access Control List (ACL)</p>	<ul style="list-style-type: none"> • Max. 50 access lists • Max. 768 rules shared by IPv4, MAC, and IPv6 • Each rule can only be associated with a single port • ACL based on • MAC address • 802.1p priority mask • VID mask • Source/destination MAC address mask • EtherType mas • IP address • Source/destination IP address mask • DSCP mask • Protocol type mask • TCP/UDP port number mask 	<ul style="list-style-type: none"> • IPv6 address • Source/destination IP address mask • DSCP mask • Protocol type mask • TCP/UDP port number mask • IPv6 traffic class mask
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Security Features	<ul style="list-style-type: none"> • Broadcast/Multicast/Unicast Storm Control • D-Link Safeguard Engine • Traffic segmentation • SSH v2 • TLS v.1.2 • DoS attack prevention • 802.1X Port-based Access Control • Port Security • Supports up to 64 MAC addresses per port • ARP Spoofing Prevention • Max. 127 entries 	<ul style="list-style-type: none"> • DHCP Server Screening • IP-MAC-Port Binding (Smart Binding) • ARP Inspection • Max. 64 entries • IPv4 Inspection • Max. 127 entries • IPv6 Inspection • Max. 63 entries • DHCP Snooping • Max. 512 entries
AAA	<ul style="list-style-type: none"> • 802.1X Authentication • Supports local/RADIUS database • Supports port-based access control • Supports host-based access control • Supports EAP, OTP, TLS, TTLS, PEAP 	<ul style="list-style-type: none"> • IPv6 RADIUS server • Support MD5 authentication • Max. 128 entries when using local database

OAM	<ul style="list-style-type: none"> • Cable diagnostics 	<ul style="list-style-type: none"> • Factory reset
Management	<ul style="list-style-type: none"> • Web-based GUI • D-Link Network Assistant • Full CLI • Telnet Server • TFTP Client • Configurable MDI/MDIX • SNMP • Supports v1/v2c/v3 • SNMP Trap • Backup/upgrade firmware • Smart Wizard • Upload/download configuration file • BootP/DHCP Client 	<ul style="list-style-type: none"> • System Log • Max. 500 log entries • SNTP • ICMP v6 • IPv4/v6 Dual Stack • DHCP Auto Configuration • Time setting • SNTP • RMONv1 • Trusted host • Dual image • Dual configuration

Green V3.0 Technology	<ul style="list-style-type: none"> • Power Saving by: • Link Status • Time-based PoE: PoE ports can be turned on/off by port or system through schedule 	<ul style="list-style-type: none"> • System hibernation • Port shut off • Cable length detection s
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MIBs	<ul style="list-style-type: none"> • RFC1212 Concise MIB Definitions MIB • RFC1213 MIBII IB • RFC1215 MIB Traps Convention S Authentication Client MIB • RFC1493 Bridge MIB TCP • RFC1157, RFC2573, RFC2575, RFC2576 SNMP MIB for UDP • RFC1442, RFC1901, RFC1902, RFC1903, RFC1904, RFC1905, B for Diffserv. RFC1906, RFC1907, RFC1908, RFC2578, RFC3418 SNMPv2 MIB DIUS Accounting Client MIB • RFC271, RFC1757, RFC2819 RMON MIB • RFC2021 RMONv2 MIB • RFC1398, RFC1643, RFC1650, RFC2358, RFC2665 Ether-like MIB • LLDP-MED MIB • RFC2674 802.1p • Interface Group M • RFC2618 RADIUS • RFC4022 MIB for • RFC4113 MIB • RFC2389 MI • RFC2620 RA • Private MIB • PoE MIB • DDP MIB
RFC Standards	<ul style="list-style-type: none"> • RFC791 IP applications • RFC768 UDP Neighbor Discovery for IPv6 • RFC793 TCP v6 Stateless Address Auto-configuration • RFC792 ICMPv4 (SLAAC) • RFC2463, RFC4443 ICMPv6 ethernet and definition • RFC826 ARP Architecture • RFC1321, RFC2284, RFC2865, RFC2716, RFC3580 Extensibl Pv4/IPv6 dual stack function Authentication Protocol (EAP) • RFC2573 SNMP Applic • RFC2461, RFC4861 Ne • RFC2462, RFC4862 IP • RFC2464 IPv6 over Eth • RFC4291 IPv6 Addressing • RFC2893, RFC4213 I


Order Information	
DGS-1250-28X-6KV	24 Ports 10/100/1000 Mbps + 4 Ports 10G SFP+ Smart Managed Switch
DGS-1250-28X MP- 6KV	24 Ports 10/100/1000 Mbps PoE + 4 Ports 10G SFP+ Smart Managed Switch
DGS-1250-52X-6KV	48 Ports 10/100/1000 Mbps + 4 Ports 10G SFP+ Smart Managed Switch
DGS-1250-52X MP- 6KV	48 Ports 10/100/1000 Mbps PoE + 4 Ports 10G SFP+ Smart Managed Switch
Optional SFP Transceivers	
DGS-712	1000BASE-T copper
DEM-310GT	1000BASE-LX, single-mode, 10 km
DEM-311GT	1000BASE-SX, multi-mode, 550 m

Optional SFP+ Transceivers	
DEM-410T	10GBASE-T SFP+ transceiver, 100 m
DEM-431XT	10GBASE-SR SFP+ transceiver (without DDM), 33 m: OM1 MMF, 82 m: OM2 MMF, 300 m : OM3 MMF
DEM-432XT	10GBASE-LR SFP+ transceiver (without DDM), 10 km

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	<p>D-Link Smart Managed Switches [pdf] User Manual Smart Managed Switches, DGS-1250</p>
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References

- [D For Home | D-Link](#)
- [Consumer | D-Link](#)