D-Link®

Product Highlights

Gigabit Ethernet Speeds
High-speed ports provide Gigabit Ethernet technology while retaining backward compatibility for connections to older 10Mbps and 100Mbps equipment
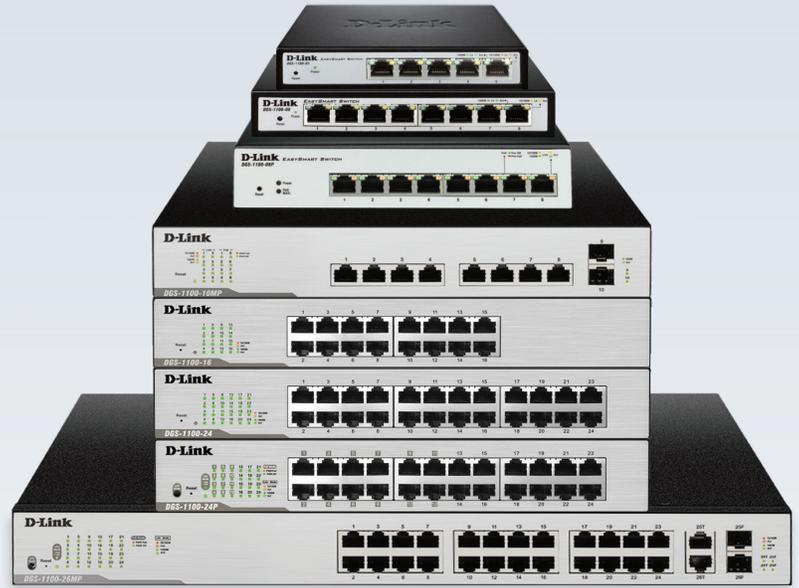
Layer 2 VLAN Control
Simple management of L2 VLANs without the complication of a fully managed switch

Energy Efficient Technology
IEEE 802.3az EEE and D-Link Green 3.0 technology help reduce energy use and operating costs

Smart and Flexible Management
Powerful switch management functions can be performed through a web management interface or through the client-based utility

Limited **Lifetime** Warranty

DGS-1100 Series
Gigabit Smart Managed Switches

Features

Port Functions
- 5, 8, 16 or 24 Gigabit Ethernet 10/100/1000 ports
- 2 Gigabit SFP ports (-10MP and -26MP models)
- Power over Ethernet (-08P, -10MP, -24P and -26MP models)

Green Technology
- Link Status detection
- IEEE 802.3az Energy Efficient Ethernet compliant
- Time-based PoE (-10MP, -24P, and -26MP models)

Advanced L2 Switching Features
- IGMP Snooping
- Bandwidth Control
- 802.1Q VLAN for traffic segregation
- Port-based VLAN
- 802.1p QoS
- Surveillance VLAN and Voice VLAN
- Loopback Detection with auto disable
- Cable Diagnostics

Management Features
- Web-based GUI
- D-Link Network Assistant Utility[2]
- SmartConsole Utility[3]

Surveillance Features (-10MP and -26MP models)
- "Full af" PoE power budget
- Auto-detect ONVIF devices
- 6 kV per port surge protection
- Surveillance Mode or Standard Mode user interface

Overview
D-Link's DGS-1100 Series Gigabit Smart Managed Switches provide an affordable solution for businesses of all sizes that require simple network management. The DGS-1100 Series consists of 5, 8, 10,16, 24 and 26 Gigabit port models. The 5 and 8 port models come in compact desktop metal enclosures, while the 10, 16, 24 and 26 port models come in metal enclosures that support either desktop or rack mounting. Four models support Power over Ethernet (PoE), with a range of PoE power budgets from 64W to 370W.

D-Link Green / Power Saving Performance
Compliant with IEEE 802.3az Energy Efficient Ethernet (EEE), these switches consume less energy by cutting down on power consumption when port utilization is low. By deploying EEE devices, users can cut operating costs and reduce necessary cooling equipment, helping small and medium-sized businesses stay within their budgets. The DGS-1100 Series also features D-Link Green Technology that helps save energy automatically. The switches monitor the link status of every port and reduce power consumption on the interface when there is no link or no network traffic detected.

Easy to Deploy
The DGS-1100 Series supports an intuitive client-based utility (D-Link Network Assistant Utility[2] or SmartConsole Utility[3]) and a web-based management interface. The client-based utility discovers all D-Link Smart Switches within the same Layer 2 network segment, making the initial setup quick and easy. This allows extensive switch configuration and basic administration of discovered devices, including password changes and firmware upgrades. The web-based management interface provides a user-friendly way for network administrators to manage the switch down to the port level. The interface can be accessed from a web browser, allowing the switch to be controlled from any network-connected PC.

Surveillance VLAN and Bandwidth Control

The DGS-1100 Series supports Surveillance VLAN for IP surveillance deployments. This gives video traffic a dedicated VLAN and higher priority through the switch, separating surveillance traffic from the rest of the network. This ensures security and guarantees the quality of the video traffic, sparing businesses the added cost of dedicated surveillance hardware. Bandwidth Control can reserve bandwidth on a per port basis for important functions that require larger bandwidth or might have high priority.

PoE Support

The DGS-1100-08P / -10MP / -24P / -26MP models deliver Power over Ethernet capabilities, simplifying deployments with IP cameras, VoIP phones, wireless access points (APs), and other standards-compliant powered devices. The DGS-1100-08P complies with the 802.3af PoE standard (up to 15.4W supported on all 8 ports). The DGS-1100-10MP, -24P and -26MP comply with the 802.3at PoE+ standard, supporting up to 30W on each PoE port. Using the management interface, an administrator can control various PoE functions, such as remotely rebooting cameras or access points, from anywhere on the network, including over the Internet.

Advanced Features

The DGS-1100 Series switches are equipped with advanced security features such as Static MAC, Storm Control, and IGMP Snooping. Static MAC allows users to create a MAC whitelist for specific ports, helping administrators limit network access to authorized devices only. Storm Control monitors broadcast, multicast, or unknown unicast traffic and will start blocking or discarding packets which could flood the network when the defined threshold is exceeded. IGMP Snooping is able to reduce the loading of L3 multicast routers and save bandwidth in network throughput.

Easy Troubleshooting

The DGS-1100 Series features Loopback Detection and Cable Diagnostics to help network administrators find and solve network problems quickly and easily. Loopback Detection is used to detect loops created by a specific port and automatically shuts down the affected port. Cable Diagnostics helps network administrators quickly examine the quality of the copper cables, recognize the cable type, and detect cable errors.
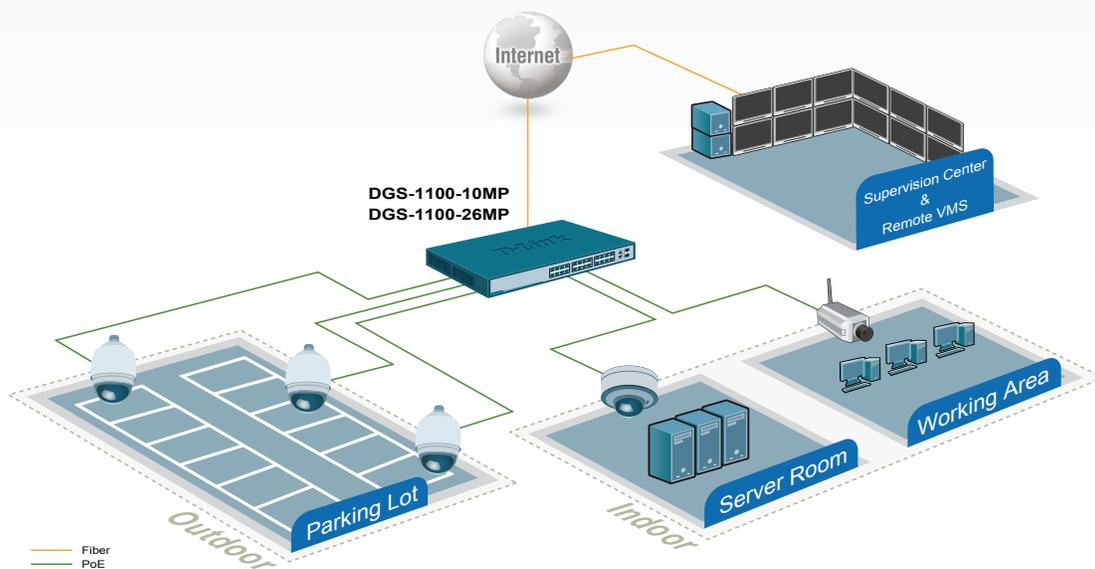
Surveillance Features (-10MP and -26MP)

A new Surveillance Mode user interface for the DGS-1100-10MP and -26MP makes surveillance features more accessible than ever. The choice between Standard and Surveillance modes can be made during switch set up, allowing the user to choose the interface that best suits their requirements. In Surveillance Mode, a network overview shows which devices are connected to which ports, and ONVIF device support allows the switch to auto detect both D-Link and 3rd party IP cameras and Network Video Recorders (NVRs). With monitoring, management, and troubleshooting tools built into a single interface, the DGS-1100-10MP and -26MP provide everything you need to manage your surveillance network.

The DGS-1100-10MP and -26MP also feature 6 kV surge protection on all PoE ports to help prevent damage to the network caused by power surges and lightning strikes. Faulty electrical cabling, faulty network cabling, and lightning strikes can cause damage to the switch and connected devices. Built-in surge protection of up to 6 kV can limit the damage to the switch from both indoor and outdoor devices and network connections. This increases network reliability, reduces repair costs and removes the need for replacement hardware in the event of an electrical surge or lightning strike.

Limited Lifetime Warranty

D-Link offers a Limited Lifetime Warranty on the DGS-1100 Series Gigabit Smart Managed Switches to further its commitment to product quality and long-term customer confidence.

Example Surveillance Network using DGS-1100-10MP or DGS-1100-26MP

Technical Specifications

	DGS-1100-05	DGS-1100-08	DGS-1100-08P

General

	DGS-1100-05	DGS-1100-08	DGS-1100-08P
Hardware Version	Rev. A	Rev. A	Rev. A
10/100/1000 Ports	5	8	8
Port Standards & Functions	• IEEE 802.3, 802.3u, 802.3ab compliant • IEEE 802.3x Flow Control • IEEE 802.3az EEE compliant	• IEEE 802.3af compliant (DGS-1100-08P) • Half/Full-duplex operation at 10/100 • Full-duplex operation at 1000Mbps	• Auto-Negotiation for each port • Auto MDI/MDIX
Switching Capacity	10Gbps	16Gbps	16Gbps
Max. Forwarding Rate	7.44 Mpps	11.9 Mpps	11.9 Mpps
MAC Address Table Size	8K Entries	8K Entries	8K Entries
Packet Buffer	1Mbits	2Mbits	2Mbits
Forwarding Mode	Store and Forward	Store and Forward	Store and Forward

Power over Ethernet

	DGS-1100-05	DGS-1100-08	DGS-1100-08P
PoE Standard	-	-	802.3af
PoE Capable Ports	-	-	Ports 1-8
PoE Power Budget	-	-	64 W

Physical & Environmental

	DGS-1100-05	DGS-1100-08	DGS-1100-08P
Power Input	100 to 240 VAC, 50 to 60 Hz External Universal Power Supply		
Max. Power Consumption	3.4 W	4.9 W	78.8 W (PoE on) 5.2 W (PoE off)
Standby Power Consumption	1.0 W	1.2 W	2.0 W
Ventilation	Fanless	Fanless	Fanless
Acoustics	0 dB(A)	0 dB(A)	0 dB(A)
Heat Dissipation	11.4 BTU/hr	16.7 BTU/hr	268.9 BTU/hr
Operating Temperature	32˚F to 104˚F (0˚C to 40˚C)		
Storage Temperature	14˚F to 158˚F (-10˚C to 70˚C)		
Operating Humidity	10% to 95% non-condensing		
Storage Humidity	5% to 95% non-condensing		
Dimensions (W x D x H)	5.55" x 3.35" x 1.1" (141 x 85 x 28 mm)	6.73" x 3.86" x 1.1" (171 x 98 x 28 mm)	7.4" x 4.7" x 1.5" (190 x 120 x 38 mm)
Weight	0.7 lbs (0.32 kg)	0.93 lbs (0.42 kg)	1.6 lbs (0.71 kg)
Certifications	FCC Class A, CE Class A, VCCI Class A		
Safety	UL/cUL, CE LVD		
MTBF	532,838 Hours	503,585 Hours	708,219 Hours

Technical Specifications

	DGS-1100-10MP	DGS-1100-16	DGS-1100-24	DGS-1100-24P	DGS-1100-26MP

General

	DGS-1100-10MP	DGS-1100-16	DGS-1100-24	DGS-1100-24P	DGS-1100-26MP
Hardware Version	Rev. B	Rev. B	Rev. B	Rev. B	Rev. B
10/100/1000 Ports	8	16	24	24	24
Gigabit SFP Ports	2	-	-	-	-
Gigabit RJ45/SFP Combo Ports	-	-	-	-	2
Port Standards & Functions	• IEEE 802.3, 802.3u, 802.3ab compliant • IEEE 802.3x Flow Control • IEEE 802.3az EEE compliant • IEEE 802.3af compliant (DGS-1100-10MP, -24P, -26MP) • IEEE 802.3at compliant (DGS-1100-10MP, -24P, -26MP)		• Half/Full-duplex operation at 10/100Mbps • Full-duplex operation at 1000Mbps • Auto-Negotiation for each port • Auto MDI/MDIX		
Switching Capacity	20Gbps	32Gbps	48Gbps	48Gbps	52Gbps
Max. Forwarding Rate	14.88 Mpps	23.81 Mpps	35.71 Mpps	35.71 Mpps	38.69 Mpps
MAC Addr. Table Size	16K Entries	8K Entries	8K Entries	8K Entries	16K Entries
Packet Buffer	1.5MBytes	512KBytes	512KBytes	512KBytes	1.5 MBytes
Forwarding Mode	Store and Forward	Store and Forward	Store and Forward	Store and Forward	Store and Forward

Power over Ethernet

	DGS-1100-10MP	DGS-1100-16	DGS-1100-24	DGS-1100-24P	DGS-1100-26MP
PoE Standards	802.3af/at	-	-	802.3af/at	802.3af/at
PoE Capable Ports	Ports 1-8	-	-	Ports 1-12	Ports 1-24
PoE Power Budget	130 W	-	-	100 W	370 W

Physical & Environmental

	DGS-1100-10MP	DGS-1100-16	DGS-1100-24	DGS-1100-24P	DGS-1100-26MP
Power Input	100 to 240 VAC, 50 to 60 Hz Internal Universal Power Supply				
Max. Power Consumption	141.4 W (PoE on) 11.8 W (PoE off)	9.3 W	13.9 W	128.3 W (PoE on) 21.2 W (PoE off)	387.0 W (PoE on) 20.8 W (PoE off)
Standby Power Consumption	10.4 W	8.0 W	10.4 W	13.0 W	15.1 W
Ventilation	One Fan	Fanless	Fanless	One Fan	Two Fans
Acoustics	45.4 dB(A)	0 dB(A)	0 dB(A)	41.9 dB(A) B1 27.6 dB(A) B2	56 dB(A)
Heat Dissipation	570.5 BTU/h	31.8 BTU/hr	47.6 BTU/hr	437.9 BTU/hr	1470.5 BTU/hr
Operating Temp.	23˚F to 122˚F (-5˚C to 50˚C)				
Storage Temp.	-40˚F to 158˚F (-40˚C to 70˚C)				
Operating Humidity	0% to 95% non-condensing				
Storage Humidity	0% to 95% non-condensing				

Dimensions (W x D x H)	11" x 7.1" x 1.73" (280 x 180 x 44 mm)	11" x 7.1" x 1.73" (280 x 180 x 44 mm)	11" x 7.1" x 1.73" (280 x 180 x 44 mm)	11" x 9.1" x 1.73" (280 x 230 x 44 mm)	17.3" x 11.4" x 1.73" (440 x 290 x 44 mm)
Weight	4.03 lbs (1.83 kg)	3.37 lbs (1.53 kg)	3.59 lbs (1.63 kg)	4.73 lbs (2.15 kg)	8.4 lbs (3.81 kg)
Certifications	FCC Class A, CE Class A, VCCI Class A				
Safety	UL/cUL, CE LVD				
MTBF	291,575 Hours	2,827,541 Hours	2,406,109 Hours	563,292 Hours	269,291 Hours

Software Features - All Models

VLAN	• Port-based VLAN
	• 802.1Q Tagged VLAN
	• Surveillance VLAN
	• Voice VLAN
	• Management VLAN
	• Asymmetric VLAN (DGS-1100-10MP/-16/-24/-24P/-26MP)
	
	• VLAN Group
	  • Supports 32 static VLAN groups (DGS-1100-05/-08/-08P)
	  • Supports 128 static VLAN groups (DGS-1100-10MP/-16/ -24/ -24P/-26MP)
	  • Max. 4094 VIDs

L2 Features	• Flow Control
	  • 802.3x Flow Control
	  • HOL Blocking Prevention
	• Jumbo Frames up to 9216 Bytes
	• IGMP Snooping
	  • IGMPv1/v2 Snooping
	  • IGMPv3 Awareness (DGS-1100-10MP/-16/-24/-24P/-26MP)
	  • Supports 32 Groups (DGS-1100-05/-08/-08P)
	  • Supports 64 Groups (DGS-1100-10MP/-16/-24/-24P/-26MP)
	• 802.3ad Link Aggregation
	  • 1 group, 2-4 ports per group (DGS-1100-05)
	  • 2 groups, 2-4 ports per group (DGS-1100-08/-08P)
	  • 5 groups, 8 ports per group (DGS-1100-10MP)
	  • 8 groups, 8 ports per group (DGS-1100-16)
	  • 12 groups, 8 ports per group (DGS-1100-24/-24P)
	  • 13 groups, 8 ports per group (DGS-1100-26MP)
	• G.8032 ERPS (DGS-1100-10MP/-26MP)
	
	• Loopback Detection
	• Cable Diagnostics
	• LLDP
	• Port Mirroring
	  • One-to-One
	  • Many-to-One (DGS-1100-10MP/-16/-24/-24P/-26MP)
	• Statistics
	  • Tx Ok
	  • Tx Error
	  • Rx Ok
	  • Rx Error
	• Spanning Tree Protocol (DGS-1100-10MP/-16/-24/-24P/-26MP)
	  • 802.1D STP
	  • 802.1w RSTP
	• SNTP (DGS-1100-10MP/-16/-24/-24P/-26MP)

QoS	• 802.1p Quality of Service
	• 4 queues per port (DGS-1100-05/-08/-08P/-16/-24/-24P)
	• 8 queues per port (DGS-1100-10MP/-26MP)
	• Queue Handling
	  • Strict
	  • Weighted Round Robin (WRR)
	  • Deficit Round Robin (DRR) (DGS-1100-10MP/-26MP)
	
	• Bandwidth Control
	  • DGS-1100-05/-08/-08P
	    • Port Based
	    • Ingress: minimum granularity 8 Kbps
	    • Egress: minimum granularity 8 Kbps
	  • DGS-1100-10MP/-16/-24/-24P/-26MP
	    • Port Based
	    • Ingress: minimum granularity 8 Kbps
	    • Egress: minimum granularity 64 Kbps

Security	• D-Link Safeguard (DGS-1100-10MP/-16/-24/-24P/-26MP)
	• Traffic Segmentation
	• Broadcast/Multicast/Unknown Unicast Storm Control
	• DoS Attack Prevention (DGS-1100-10MP/-16/-24/-24P/-26MP)
	
	• SSL (DGS-1100-10MP/-16/-24/-24P/-26MP)
	• Static MAC Address
	  • Max. 32 entries (DGS-1100-05/-08/-08P)
	  • Max. 64 entries (DGS-1100-10MP/-16/-24/-24P/-26MP)

Management	• Web-Based GUI:
	  • Supports IPv4 (DGS-1100-05/-08/-08P)
	  • Supports IPv4/IPv6 (DGS-1100-10MP/-16/-24/-24P/-26MP)
	• SNMPv1/v2c (DGS-1100-10MP/-16/-24/-24P/-26MP)
	
	• SmartConsole Utility (DGS-1100-05/08/08P)
	• D-Link Network Assistant Utility (DGS-1100-10MP/-16/-24/-24P/-26MP)

D-Link Green	• Power Saving by:
	  • Link Status
	  • Cable Length (DGS-1100-05/-08/-08P)
	  • LED Shut-off (DGS-1100-10MP/-16/-24/-24P/-26MP)
	  • Port Shut-off (DGS-1100-10MP/-16/-24/-24P/-26MP)
	  • System hibernation (DGS-1100-10MP/-16/-24/-24P/-26MP)
	
	• Compliant with Energy Efficient Ethernet (IEEE 802.3az)
	• RoHS Compliant

RFC Standards (DGS-1100-05) (DGS-1100-08) (DGS-1100-08P)	• RFC 768 UDP • RFC 791 IP • RFC 792 ICMP • RFC 793 TCP • RFC 826 ARP	• RFC 951 BootP Client • RFC 1542 BootP/DHCP client • RFC 1945 HTTP/1.0 • RFC 2647 802.1p • RFC 2236, 4451 IGMP Snooping
MIB/RFC Standards (DGS-1100-10MP) (DGS-1100-16) (DGS-1100-24) (DGS-1100-24P) (DGS-1100-26MP)	• RFC 768 UDP • RFC 791 IP • RFC 792 ICMP • RFC 793 TCP • RFC 826 ARP • RFC 951 BootP Client • RFC 1542 BootP/DHCP client • RFC 2236 IGMP Snooping	• RFC 1213 MIB II • RFC 1493 Bridge MIB • RFC 1907 SNMPv2 MIB • RFC 1215 MIB Traps Convention • RFC 2233 Interface Group MIB • RFC 2665 Ether-like MIB • RFC 4363 IEEE 802.1p MIB • ZoneDefense MIB • Private MIB

Ordering Information

Product	Description	Warranty
DGS-1100-05	5-Port Gigabit Smart Managed Desktop Switch	Limited Lifetime[1]
DGS-1100-08	8-Port Gigabit Smart Managed Desktop Switch	Limited Lifetime[1]
DGS-1100-08P	8-Port Gigabit Smart Managed Desktop PoE Switch	Limited Lifetime[1]
DGS-1100-10MP	10-Port Gigabit Smart Managed Desktop/Rackmount PoE+ Switch including 2 Gigabit SFP Ports	Limited Lifetime[1]
DGS-1100-16	16-Port Gigabit Smart Managed Desktop/Rackmount Switch	Limited Lifetime[1]
DGS-1100-24	24-Port Gigabit Smart Managed Desktop/Rackmount Switch	Limited Lifetime[1]
DGS-1100-24P	24-Port Gigabit Smart Managed Desktop/Rackmount Switch including 12 PoE+ Ports	Limited Lifetime[1]
DGS-1100-26MP	26-Port Gigabit Smart Managed Desktop/Rackmount PoE+ Switch including 2 Gigabit RJ45/SFP Combo Ports	Limited Lifetime[1]

Optional SFP Transceivers

DEM-712	1000BASE-T SFP Transceiver	
DEM-310GT	1000BASE-LX Single-mode Fiber SFP Transceiver	
DEM-311GT	1000BASE-SX Multimode fiber SFP Transceiver	

[1] Limited Lifetime Warranty available in U.S.A. only.
[2] D-Link Network Assistant Utility Available for Hardware Rev. B only.
[3] SmartConsole Utility Available for Hardware Rev. A only.

Updated 04-February-2016
Hardware Rev A (DGS-1100-05 / DGS-1100-08 / DGS-1100-08P)
Hardware Rev B (DGS-1100-10MP / DGS-1100-16 / DGS-1100-24 / DGS-1100-24P / DGS-1100-26MP)

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For more information

U.S.A. | 17595 Mt. Herrmann Street | Fountain Valley, CA 92708 | 800.326.1688 | us.dlink.com

D-Link®
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