

## 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

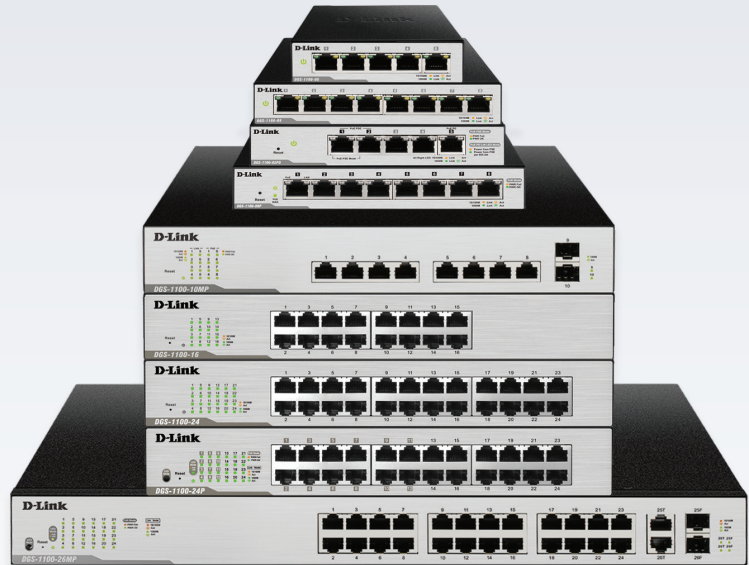
Simple management of L2 VLANs without the complication of a fully managed switch

### Energy Efficient Technology

IEEE 802.3az EEE and D-Link Green features 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



## DGS-1100 Series

# Smart Managed Gigabit Switches

## Features

### Port Functions

- 5, 8, 16 or 24 Gigabit Ethernet 10/100/1000 ports
- 2 Gigabit SFP ports (-10MP and -26MP)
- Power over Ethernet (-08P, -10MP, -24P and -26MP)
- PoE Pass-through (-05PD)

### Green Technology

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

### Advanced L2 Switching Features

- IGMP Snooping
- Bandwidth Control
- 802.1Q VLAN for traffic segregation
- Port-based VLAN
- 802.1p Quality of Service
- Surveillance VLAN and Voice VLAN

### Management Features

- Client-based utility or Web-based GUI

### Surveillance Features (-10MP and -26MP)

- "Full power" PoE budget: 15.4W on all ports simultaneously
- 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 switches consist of 5, 8, 10, 16, 24 and 26 Gigabit port models with a wide variety of functions and features. The 5 and 8 port models come in compact metal desktop enclosures, while the 10, 16, 24 and 26 port models come in metal enclosures that support either desktop or rack mounting. Four models support 802.3af/at Power over Ethernet (PoE), with a range of PoE power budgets from 64W to 370W. There is also a PoE-powered model that has the ability to pass-through power to one or two PoE devices downstream.

## 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 switches also feature 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 switches support an intuitive client-based utility (D-Link Network Assistant Utility) and a web-based management interface. The client-based utility discovers all D-Link Smart Switches within the same Layer 2 network segment, making 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 switches support 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 also ensures security, and guarantees the quality of the video traffic, sparing businesses the added cost of dedicated surveillance networking 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-1100-05PD / 08P / -10MP / -24P / -26MP models support Power over Ethernet, simplifying deployments with IP cameras, VoIP phones, wireless access points (APs), and other standards-compliant powered devices. The DGS-1100-08P, 10MP, -24P and -26MP comply with the 802.3af/at PoE+ standards, supporting up to 30W on each PoE port, not to exceed the switches specific power budget. 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.

### PoE Pass-through

The DGS-1100-05PD is a unique 5-port switch which must be powered by an upstream 802.3af or 802.3at compliant PoE switch/injector through its port 5. The switch also has the ability to propagate PoE power further downstream to PDs connected to its ports 1 and 2. The amount of power available to PDs is dependent on the PoE source (802.3af or 802.3at) and the PD's PoE Classification.

Port 5 Connected Device Type	Port 1 PD Class Type Supported	Port 2 PD Class Type Supported
802.3af PoE Switch/Injector	Class 1 or 2	NA
	NA	Class 1 or 2
802.3at PoE Switch/Injector	Class 0 or 3	NA
	NA	Class 0 or 3
	Class 1 or 2	Class 1 or 2

### 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 switches feature 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 unique 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 topology map 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). The UI also shows details on PoE power utilization, device IP addresses, and provides easy access to troubleshooting tools built into the interface.

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.

### Technical Specifications

	DGS-1100-05	DGS-1100-05PD	DGS-1100-08	DGS-1100-08P
				
<b>General</b>				
Hardware Version	Rev. B	Rev. B	Rev. B	Rev. B
10/100/1000 Ports	5	5	8	8
Port Standards & Functions	<ul style="list-style-type: none"> <li>• IEEE 802.3, 802.3u, 802.3ab compliant</li> <li>• IEEE 802.3x Flow Control</li> <li>• IEEE 802.3az EEE compliant</li> <li>• IEEE 802.3af compliant (DGS-1100-05PD)</li> <li>• IEEE 802.3af/at compliant (DGS-1100-08P)</li> </ul>		<ul style="list-style-type: none"> <li>• Half/Full-duplex operation at 10/100</li> <li>• Full-duplex operation at 1000Mbps</li> <li>• Auto-Negotiation for each port</li> <li>• Auto MDI/MDIX</li> </ul>	
Switching Capacity	10 Gbps	10 Gbps	16 Gbps	16 Gbps
Max. Forwarding Rate	7.4 Mpps	7.4 Mpps	11.9 Mpps	11.9 Mpps
MAC Address Table Size	2K Entries	2K Entries	4K Entries	4K Entries
Packet Buffer	1 Mbits	1 Mbits	1.5 Mbits	1.5 Mbits
Flash Memory	2 Mbytes	2 Mbytes	2 Mbytes	2 Mbytes
<b>Power over Ethernet</b>				
PoE Standard	-	802.3af	-	802.3af/at
PoE Capable Ports	-	Ports 1-2 (PSE) Port 5 (PD)	-	Ports 1-8
PoE Power Budget	-	18W with 802.3at input power 8W with 802.3af input power	-	64W
<b>Physical &amp; Environmental</b>				
Power Input	100 to 240 VAC; 50 to 60 Hz External Universal Pwr Supply	802.3af/at PoE input only (no external Pwr Supply)	100 to 240 VAC; 50 to 60 Hz External Universal Pwr Supply	100 to 240 VAC; 50 to 60 Hz External Universal Pwr Supply
Max. Power Consumption	3.42 W	23.92 W (PoE on) 2.32 W (PoE off)	4.94 W	77.9 W (PoE on) 4.6 W (PoE off)
Standby Power Consumption	1.39 W	1.46 W	1.93 W	2.0 W
Ventilation	Fanless	Fanless	Fanless	Fanless
Acoustics	0 dB(A)	0 dB(A)	0 dB(A)	0 dB(A)
Heat Dissipation	11.67 BTU/hr	N/A	16.85 BTU/hr	265.85 BTU/hr
Operating Temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Storage Temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Operating Humidity	0% to 90% non-condensing	0% to 90% non-condensing	0% to 90% non-condensing	0% to 90% non-condensing
Storage Humidity	0% to 95% non-condensing	0% to 95% non-condensing	0% to 95% non-condensing	0% to 95% non-condensing
Dimensions (W x D x H)	3.96" x 3.23" x 1.10" (100.5x82x28mm)	5.91" x 3.82" x 1.10" (150x97x28mm)	5.71" x 3.23" x 1.10" (145x82x28mm)	6.73" x 3.85" x 1.13" (171x97.8x28.6mm)
Weight	0.51 lbs (0.23 kg)	0.84 lbs (0.38 kg)	0.75 lbs (0.34 kg)	0.95 lbs (0.43 kg)

EMI Certifications	FCC Class B, CE Class B, VCCI Class B, BSMI, CCC			
Safety	cUL, CE LVD, CB, BSMI, CCC			
MTBF	1,562,055 hours	2,346,941 hours	1,456,992 hours	786,841 hours

### Technical Specifications

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

### General

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	<ul style="list-style-type: none"> <li>• IEEE 802.3, 802.3u, 802.3ab compliant</li> <li>• IEEE 802.3x Flow Control</li> <li>• IEEE 802.3az EEE compliant</li> <li>• IEEE 802.3af/at compliant (DGS-1100-10MP, -24P, -26MP)</li> <li>• Half/Full-duplex operation at 10/100Mbps</li> <li>• Full-duplex operation at 1000Mbps</li> <li>• Auto-Negotiation for each port</li> <li>• Auto MDI/MDIX</li> </ul>				
Switching Capacity	20 Gbps	32 Gbps	48 Gbps	48 Gbps	52 Gbps
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
Flash Memory	16 MBytes	8 MBytes	8 MBytes	8 MBytes	16 MBytes

### Power over Ethernet

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

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) rev B1 27.6 dB(A) rev 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	3.68 lbs (1.67 kg)	3.37 lbs (1.53 kg)	3.59 lbs (1.63 kg)	4.73 lbs (2.15 kg)	8.6 lbs (3.9 kg)
EMI Certifications	FCC Class A, CE Class A, VCCI Class A, BSMI, CCC				
Safety	cUL, CE LVD, CB, BSMI, CCC				
MTBF	291,575 Hours	2,827,541 Hours	2,406,109 Hours	563,292 Hours	269,291 Hours

### Software Features - All Models

VLAN	<ul style="list-style-type: none"> <li>• Port-based VLAN</li> <li>• 802.1Q Tagged VLAN</li> <li>• Surveillance VLAN</li> <li>• Voice VLAN</li> <li>• Management VLAN</li> <li>• Asymmetric VLAN</li> </ul>	<ul style="list-style-type: none"> <li>• VLAN Group</li> <li>• Supports 32 static VLAN groups (DGS-1100-05/-05PD/-08/-08P)</li> <li>• Supports 128 static VLAN groups (DGS-1100-10MP/-16/-24/-24P/-26MP)</li> <li>• Max. 4094 VIDs</li> </ul>
L2 Features	<ul style="list-style-type: none"> <li>• Flow Control <ul style="list-style-type: none"> <li>• 802.3x Flow Control</li> <li>• HOL Blocking Prevention</li> </ul> </li> <li>• Jumbo Frames up to 9216 Bytes</li> <li>• IGMP Snooping <ul style="list-style-type: none"> <li>• IGMPv1/v2 Snooping</li> <li>• IGMPv3 Awareness</li> <li>• Supports 128 Groups (DGS-1100-05/-05PD/-08/-08P)</li> <li>• Supports 64 Groups (DGS-1100-10MP/-16/-24/-24P/-26MP)</li> </ul> </li> <li>• 802.3ad Link Aggregation <ul style="list-style-type: none"> <li>• 1 group, 2-4 ports per group (DGS-1100-05/-05PD)</li> <li>• 2 groups, 2-4 ports per group (DGS-1100-08/-08P)</li> <li>• 5 groups, 8 ports per group (DGS-1100-10MP)</li> <li>• 8 groups, 8 ports per group (DGS-1100-16)</li> <li>• 12 groups, 8 ports per group (DGS-1100-24/-24P)</li> <li>• 13 groups, 8 ports per group (DGS-1100-26MP)</li> </ul> </li> <li>• G.8032 ERPS (DGS-1100-10MP/-26MP)</li> </ul>	<ul style="list-style-type: none"> <li>• Loopback Detection</li> <li>• Cable Diagnostics</li> <li>• LLDP (DGS-1100-10MP/-16/-24/-24P/-26MP)</li> <li>• Port Mirroring <ul style="list-style-type: none"> <li>• One-to-One</li> <li>• Many-to-One</li> </ul> </li> <li>• Statistics <ul style="list-style-type: none"> <li>• Tx Ok</li> <li>• Tx Error</li> <li>• Rx Ok</li> <li>• Rx Error</li> </ul> </li> <li>• Spanning Tree Protocol <ul style="list-style-type: none"> <li>• 802.1D STP</li> <li>• 802.1w RSTP</li> </ul> </li> <li>• SNTP (DGS-1100-10MP/-16/-24/-24P/-26MP)</li> <li>• L2 Multicast <ul style="list-style-type: none"> <li>• MLD Snooping (DGS-1100-10MP/-26MP)</li> </ul> </li> </ul>
QoS	<ul style="list-style-type: none"> <li>• 802.1p Quality of Service <ul style="list-style-type: none"> <li>• 4 queues per port (DGS-1100-05/-05PD/-08/-08P/-16/-24/-24P)</li> <li>• 8 queues per port (DGS-1100-10MP/-26MP)</li> </ul> </li> <li>• Queue Handling <ul style="list-style-type: none"> <li>• Strict</li> <li>• Weighted Round Robin (WRR)</li> <li>• Deficit Round Robin (DRR) (DGS-1100-10MP/-26MP)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Bandwidth Control <ul style="list-style-type: none"> <li>• DGS-1100-05/-05PD/-08/-08P <ul style="list-style-type: none"> <li>• Port Based</li> <li>• Ingress: minimum granularity 8 Kbps</li> <li>• Egress: minimum granularity 8 Kbps</li> </ul> </li> <li>• DGS-1100-10MP/-16/-24/-24P/-26MP <ul style="list-style-type: none"> <li>• Port Based</li> <li>• Ingress: minimum granularity 8 Kbps</li> <li>• Egress: minimum granularity 64 Kbps</li> </ul> </li> </ul> </li> </ul>
Security	<ul style="list-style-type: none"> <li>• D-Link Safeguard (DGS-1100-10MP/-16/-24/-24P/-26MP)</li> <li>• Traffic Segmentation</li> <li>• Broadcast/Multicast/Unknown Unicast Storm Control</li> <li>• DoS Attack Prevention (DGS-1100-10MP/-16/-24/-24P/-26MP)</li> </ul>	<ul style="list-style-type: none"> <li>• SSL (DGS-1100-10MP/-16/-24/-24P/-26MP)</li> <li>• Static MAC Address <ul style="list-style-type: none"> <li>• Max. 32 entries (DGS-1100-05/-05PD/-08/-08P)</li> <li>• Max. 64 entries (DGS-1100-10MP/-16/-24/-24P/-26MP)</li> </ul> </li> </ul>
Management	<ul style="list-style-type: none"> <li>• Web-Based GUI: <ul style="list-style-type: none"> <li>• Supports IPv4 (DGS-1100-05/-05PD/-08/-08P)</li> <li>• Supports IPv4/IPv6 (DGS-1100-10MP/-16/-24/-24P/-26MP)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• D-Link Network Assistant Utility</li> </ul>
Green Technology	<ul style="list-style-type: none"> <li>• Power Saving by: <ul style="list-style-type: none"> <li>• Link Status (DGS-1100-10MP/-16/-24/-24P/-26MP)</li> <li>• LED Shut-off (DGS-1100-10MP/-16/-24/-24P/-26MP)</li> <li>• Port Shut-off (DGS-1100-10MP/-16/-24/-24P/-26MP)</li> <li>• System hibernation (DGS-1100-10MP/-16/-24/-24P/-26MP)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Compliant with Energy Efficient Ethernet (IEEE 802.3az)</li> <li>• RoHS Compliant</li> </ul>

# DGS-1100 Series

## Smart Managed Gigabit Switches

MIB/RFC Standards (DGS-1100-05/-05PD/08/08P)	<ul style="list-style-type: none"> <li>• RFC 768 UDP</li> <li>• RFC 791 IP</li> <li>• RFC 792 ICMP</li> <li>• RFC 793 TCP</li> <li>• RFC 826 ARP</li> </ul>	<ul style="list-style-type: none"> <li>• IEEE 802.1p</li> <li>• RFC2236, IGMP Snooping</li> <li>• RFC1213 MIB II</li> <li>• RFC1215 MIB Traps Convention</li> </ul>
MIB/RFC Standards (DGS-1100-10MP/-16/-24/-24P/-26MP)	<ul style="list-style-type: none"> <li>• RFC768 UDP</li> <li>• RFC791 IP</li> <li>• RFC792 ICMP</li> <li>• RFC793 TCP</li> <li>• RFC826 ARP</li> <li>• RFC1213 MIB II</li> <li>• RFC1493 Bridge MIB</li> <li>• RFC1907 SNMPv2 MIB</li> <li>• RFC1215 MIB Traps Convention</li> </ul>	<ul style="list-style-type: none"> <li>• RFC2233 Interface Group MIB</li> <li>• RFC2665 Ether-like MIB</li> <li>• RFC4363 IEEE 802.1p MIB</li> <li>• ZoneDefense MIB</li> <li>• Private MIB</li> <li>• RFC951 BootP client</li> <li>• RFC1542 BootP/DHCP client</li> <li>• RFC2236 IGMP Snooping</li> </ul>

### Ordering Information

Product	Description	Warranty
DGS-1100-05	5-Port Gigabit Smart Managed Desktop Switch	Limited Lifetime <sup>1</sup>
DGS-1100-05PD	5-Port Gigabit Smart Managed Desktop Switch, PoE Powered, PoE Pass-through	Limited Lifetime <sup>1</sup>
DGS-1100-08	8-Port Gigabit Smart Managed Desktop Switch	Limited Lifetime <sup>1</sup>
DGS-1100-08P	8-Port Gigabit Smart Managed Desktop PoE Switch	Limited Lifetime <sup>1</sup>
DGS-1100-10MP	10-Port Gigabit Smart Managed Rackmount PoE+ Switch including 2 Gigabit SFP Ports	Limited Lifetime <sup>1</sup>
DGS-1100-16	16-Port Gigabit Smart Managed Rackmount Switch	Limited Lifetime <sup>1</sup>
DGS-1100-24	24-Port Gigabit Smart Managed Rackmount Switch	Limited Lifetime <sup>1</sup>
DGS-1100-24P	24-Port Gigabit Smart Managed Rackmount Switch including 12 PoE+ Ports	Limited Lifetime <sup>1</sup>
DGS-1100-26MP	26-Port Gigabit Smart Managed Rackmount PoE+ Switch including 2 Gigabit RJ45/SFP Combo Ports	Limited Lifetime <sup>1</sup>

### Optional 1 Gbps SFP Transceivers (-10MP/-26MP only)

DEM-712	1000BASE-T SFP Transceiver
DEM-310GT	1000BASE-LX SFP Transceiver
DEM-311GT	1000BASE-SX SFP Transceiver

<sup>1</sup>Limited Lifetime Warranty available in U.S.A. only.

<sup>2</sup>D-Link Network Assistant Utility Available for Hardware Rev. B only.

Updated 06-December-2016

Hardware Rev B (DGS-1100-05 / DGS-1100-05PD / DGS-1100-08 / DGS-1100-08P / DGS-1100-10MP / DGS-1100-16 / DGS-1100-24 / DGS-1100-24P / DGS-1100-26MP)

DGS-1100-SERIES\_REVAB\_DATASHEET\_3.00\_EN\_US.PDF

### For more information

**U.S.A.** | 17595 Mt. Herrmann Street | Fountain Valley, CA 92708 | 800.326.1688 | [us.dlink.com](http://us.dlink.com)

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