





### 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> </ul> <ul style="list-style-type: none"> <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 <ul style="list-style-type: none"> <li>• Ingress: minimum granularity 8 Kbps</li> <li>• Egress: minimum granularity 8 Kbps</li> </ul> </li> </ul> </li> <li>• DGS-1100-10MP/-16/-24/-24P/-26MP <ul style="list-style-type: none"> <li>• Port Based <ul style="list-style-type: none"> <li>• Ingress: minimum granularity 8 Kbps</li> <li>• Egress: minimum granularity 64 Kbps</li> </ul> </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

©2016 D-Link Corporation/D-Link Systems, Inc. All rights reserved. D-Link and the D-Link logo are registered trademarks of D-Link Corporation or its subsidiaries in the United States and/or other countries. Other trademarks or registered trademarks are the property of their respective owners.

All references to speed are for comparison purposes only. Product specifications, size and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

Visit us.dlink.com for more details.

**D-Link**<sup>®</sup>  
Building Networks for People