



## Product Highlights

### L2 VLAN Control

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

### Traffic Prioritization for Voice and Video

Auto Surveillance VLAN (ASV) and Auto Voice VLAN ensure IP voice and IP surveillance systems have highest priority.

### Energy Efficient Technology

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

## DGS-1100 Series

# Gigabit EasySmart Switches

## Features

### Energy Efficient Ethernet

- IEEE 802.3az compliant

### D-Link Green Technology

- Power Saving by Link Status
- Power Saving by Cable Length
- Provides reliable and eco-friendly operation

### Advanced Features

- 802.1Q VLAN for traffic segregation
- Port-based VLAN
- Port-based Bandwidth Control
- IGMP Snooping

### Quality of Service

- 802.1p
- Auto Surveillance VLAN
- Auto Voice VLAN

### Easy Troubleshooting

- Loopback Detection auto disables port when a loop is detected
- Cable Diagnostics

### Management Features

- Web-based GUI
- D-Link Network Assistant Utility<sup>2</sup>
- SmartConsole Utility<sup>3</sup>



Limited  
Lifetime  
Warranty

## Overview

D-Link's DGS-1100 Series Gigabit EasySmart Switches provide an affordable solution for SOHOs, small/medium-sized businesses, as well as enterprise deployments, such as branch offices that require simple network management. The DGS-1100 Series consists of 5, 8, 16, and 24 10/100/1000Mbps port models. The 5 and 8 port models come in a compact desktop enclosure, while the 16 and 24 port models come in a compact 11" desktop/rackmount enclosure. Two versions of the 8-port and 24-port models are available – with and without Power-over-Ethernet (PoE) support. Compliant with IEEE 802.3az Energy Efficient Ethernet, these switches consume less power during idle periods. They also implement D-Link Green features that detect link status and cable length and adjust power usage accordingly. Switch management can be performed through a web management interface or through the D-Link Network Assistant Utility<sup>2</sup>. The DGS-1100 Series also supports Layer 2 features such as IGMP Snooping to optimize performance for multicast applications. All models except the DGS-1100-24P are fanless, which allows for quieter operation and provides a longer product life.

## Auto Surveillance VLAN and Bandwidth Control

The DGS-1100 Series supports Auto Surveillance VLAN, which is best suited for video surveillance deployment. Auto Surveillance VLAN is a new, industry leading technology that consolidates data and surveillance video transmission through a DGS-1100 switch, thus sparing businesses the expense of dedicated hardware and facilities. Auto Surveillance VLAN also ensures the quality of real-time video for monitoring and control without compromising the transmission of conventional network data. In addition, with Bandwidth Control, network administrators can reserve bandwidth for important functions that require more bandwidth or high priority.

### PoE Support

The DGS-1100-08P and the DGS-1100-24P both deliver Power over Ethernet capabilities, simplifying deployments with IP cameras, VoIP phones, wireless access points, 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) and has a 64W power budget. The DGS-1100-24P complies with the 802.3at PoE+ standard (up to 30W supported on the first 12 ports) and has a 100W power budget. Using the product's 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.

### D-Link Green/Power Saving Performance

Compliant with IEEE 802.3az Energy Efficient Ethernet, these switches consume less energy by cutting down on power consumption when the traffic volume is low. By deploying EEE devices, users can cut operating costs and even cut down on 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 in automatically saving energy. The switches automatically detect the length of the connected cables and can adjust power usage for shorter cable connections of up to 20 meters. In addition, the switches monitor link status of every port and drastically reduce power consumption when a port is without a link.

### Easy to deploy

The DGS-1100 Gigabit EasySmart Switches support an intuitive D-Link Network Assistant Utility<sup>2</sup> and a web-based management interface that enables administrators to remotely control their network down to the port level. The D-Link Network Assistant allows customers to discover multiple D-Link WebSmart and EasySmart Switches within the same L2 network segment. With this utility, users do not need to change the IP address of their PC, and this makes initial setup of the Smart Switches quick and easy. Switches within the same L2 network segment that are connected to the user's PC are displayed on-screen for instant access. This allows for extensive switch configuration and basic setup of discovered devices, including password changes and firmware upgrades.







### Easy Troubleshooting/Security

Network maintenance features include Loopback Detection and Cable Diagnostics. Loopback Detection is used to detect loops created by a specific port and automatically shuts down the affected port. Cable Diagnostics is designed for network administrators to quickly examine the quality of the copper cables and also determine the type of cable error. In addition, Static MAC can disable Auto Learning on selected ports and can set static MAC addresses for designated ports, helping administrators limit network access to authorized devices only.

### Limited Lifetime Warranty

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

### Technical Specifications

	DGS-1100-05	DGS-1100-08	DGS-1100-08P	DGS-1100-16	DGS-1100-24	DGS-1100-24P
						
General						
Port Standard & Functions	IEEE 802.3 compliant IEEE 802.3u compliant IEEE 802.3ab compliance Supports Half/Full-duplex operation at 10/100Mbps Supports Full-duplex operation at 1000Mbps			Supports Auto-Negotiation for each port Auto MDI/MDIX IEEE 802.3x Flow Control support IEEE 802.3az compliant		
Number of Ports	5	8	8	16	24	24
Performance						
Switching Capacity	10Gbps	16Gbps	16Gbps	32Gbps	48Gbps	48Gbps
Max. Forwarding Rate	7.44 Mpps	11.9 Mpps	11.9 Mpps	23.81 Mpps	35.71 Mpps	35.71 Mpps
MAC Address Table	8K Entries					
Packet Buffer	1Mbits	2Mbits	2Mbits	512Kbits	512Kbits	512Kbits
Forwarding Mode	Store and Forward					



## DGS-1100 Series Gigabit EasySmart Switches

Physical & Environmental						
Power Input	100 to 240 VAC, 50 to 60 Hz External Universal Power Supply			100 to 240 VAC, 50 to 60 Hz Internal Universal Power Supply		
Max. Power Consumption	3.35 Watts	4.89 Watts	78.8W (PoE on) 5.2W (PoE off)	9.31 Watts	13.94 Watts	128.32 W (PoE on)
Standby Power Consumption	0.99 Watts	1.23 Watts	2.0 Watts	7.96 Watts	10.37 Watts	12.94 Watts
Fan Quantity	Fanless					One Fan
Acoustics	0 dBA					41.9 dBA
Heat Dissipation	11.43 BTU/hr	16.68 BTU/hr	268.87 BTU/hr	31.77 BTU/hr	47.57 BTU/hr	437.85 BTU/hr
Operating	32 to 104 °F (0 to 40 °C)					
Storage Temperature	14 to 158 °F (-10 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" (141mm x 85mm x 28mm)	6.73" x 3.86" x 1.1" (171mm x 98mm x 28mm)	7.4" x 4.7" x 1.5" (190mm x 120mm x 38mm)	11" x 7.1" x 1.73" (280mm x 180mm x 44 mm) 11-inch Desktop/Rackmount Size, 1U Height		11" x 9.1" x 1.73" (280mm x 230mm x 44 mm) 11-inch Desktop/Rackmount Size, 1U Height
Weight	0.7 lbs (0.32kg)	0.93 lbs (0.42kg)	1.6lbs (0.71kg)	3.37lbs (1.53 kg)	3.59lbs (1.63 kg)	4.73lbs (2.15 kg)
Diagnostic LEDs	Power (Per Device) PoE Max. (DGS-1100-08P Only) Link/Activity/Speed (Per Port) LED Mode (DGS-1100-24P)					
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	2,827,541 Hours	2,406,109 Hours	563,292 Hours
Power over Ethernet						
PoE Standard	-	-	802.3af	-	-	802.3at
PoE Capable Ports	-	-	Ports 1-8	-	-	Ports 1-12
PoE Power Budget	-	-	64W	-	-	100W
Software Features						
VLAN	• Port-based VLAN • 802.1Q Tagged VLAN • Surveillance VLAN • Voice VLAN			• Management VLAN • VLAN Group - Supports 32 static VLAN groups (05/08/08P) - Supports 128 static VLAN groups (16/24/24P) - Max. 4094 VIDs		

# DGS-1100 Series Gigabit EasySmart Switch

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>• IGMP Snooping<ul style="list-style-type: none"><li>- IGMP v1/v2 Snooping</li><li>- Supports 32 Groups (05/08/08P)</li><li>- Supports 64 Groups (16/24/24P)</li></ul></li><li>• Loopback Detection</li><li>• Link Aggregation<ul style="list-style-type: none"><li>- 1 group, 2-4 ports per group (DGS-1100-05)</li><li>- 2 groups, 2-4 ports per group (DGS-1100-08/08P)</li></ul></li></ul>	<ul style="list-style-type: none"><li>- 8 groups, 8 ports per group (DGS-1100-16)</li><li>- 12 groups, 8 ports per group (DGS-1100-24/24P)</li><li>• Port Mirroring<ul style="list-style-type: none"><li>- One-to-One</li><li>- Many-to-One (DGS-1100-16/24/24P only)</li></ul></li><li>• Cable Diagnostics</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></ul>
QoS	<ul style="list-style-type: none"><li>• 802.1p Quality of Service</li><li>• 4 queues per port</li><li>• Queue Handling<ul style="list-style-type: none"><li>- Strict</li><li>- Weighted Round Robin (WRR)</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Bandwidth Control<ul style="list-style-type: none"><li>- DGS-1100-05/08/08P<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-1100-16/24/24P<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>• Static MAC Address<ul style="list-style-type: none"><li>- Max. 32 entries (DGS-1100-05/08/08P)</li><li>- Max. 64 entries (DGS-1100-16/24/24P)</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Broadcast/Multicast/Unknown Unicast Storm Control</li></ul>
Management	<ul style="list-style-type: none"><li>• Web-Based GUI (Supports IPv4)</li><li>• D-Link Network Assistant Utility<sup>2</sup></li></ul>	<ul style="list-style-type: none"><li>• SmartConsole Utility<sup>3</sup></li></ul>
D-Link Green	<ul style="list-style-type: none"><li>• Power Saving by<ul style="list-style-type: none"><li>- Link Status</li><li>- Cable Length</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Energy Efficient Ethernet (IEEE 802.3az)</li><li>• RoHS Compliant</li></ul>
RFC Standard List	<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>• RFC 951 BootP Client</li><li>• RFC 1542 BootP/DHCP client</li><li>• RFC 1945 HTTP/1.0</li><li>• RFC 2647 802.1p</li></ul>
Warranty		
Warranty	Limited Lifetime <sup>1</sup>	
Ordering Information		
Product	Description	
DGS-1100-05	5-Port Gigabit EasySmart Metal Desktop Switch	
DGS-1100-08	8-Port Gigabit EasySmart Metal Desktop Switch	
DGS-1100-08P	8-Port Gigabit EasySmart Metal Desktop PoE Switch	
DGS-1100-16	16-Port Gigabit EasySmart Metal Desktop or Rackmount Switch	
DGS-1100-24	24-Port Gigabit EasySmart Metal Desktop or Rackmount Switch	
DGS-1100-24P	24-Port Gigabit EasySmart Metal Desktop or Rackmount Switch with 12 PoE+ Ports	

Updated: 11/2014

<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. <sup>3</sup>SmartConsole Utility Available for Hardware Rev. A only.

## For more information

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

©2014 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. Visit [www.dlink.com](http://www.dlink.com) for more details.

H/W Rev. A (05/08/08P)

H/W Rev. B (16/24/24P)

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