



Product Highlights

Gigabit Ethernet Speeds

High-speed ports provide the latest Ethernet technology while retaining backward compatibility for connections to older computers and 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

DGS-1100 Series

Gigabit EasySmart Switches

Features

Physical

- 5, 8, 16 or 24 Gigabit Ethernet 10/100/1000 ports
- Support for Power over Ethernet (8 and 24 port models)

Green Technology

- Link Status detection
- IEEE 802.3az compliant
- Time-based PoE (DGS-1100-24P only)

Advanced Features

- IGMP Snooping
- Bandwidth Control
- 802.1Q VLAN for traffic segregation
- Port-based VLAN
- 802.1p QoS
- Surveillance VLAN
- Voice VLAN

Easy Troubleshooting

- Loopback Detection with auto disable
- Cable Diagnostics

Management Features

- Web-based GUI
- D-Link Network Assistant Utility²
- SmartConsole Utility³



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 support for Power over Ethernet (PoE).

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 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 save energy automatically. The switches monitor the link status of every port and will drastically reduce power consumption when a port link is down.

Easy to Deploy

The DGS-1100 Series supports an intuitive Client-based utility (SmartConsole Utility or D-Link Network Assistant Utility) and a web-based management interface. The Client-based Utility allows customers to discover all switches in the D-Link Smart Switch family within the same L2 network segment. With this utility, users do not need to change the IP address of their PC, and this also 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. The graphic web-based management interface provides a user-friendly

interface that enables network administrators to remotely control their network down to the port level.

Surveillance VLAN and Bandwidth Control

The DGS-1100 Series supports Surveillance VLAN for video surveillance deployment. Surveillance VLAN gives video traffic high priority and an individual VLAN, guaranteeing the quality of surveillance traffic through a single DGS-1100 switch, thus sparing businesses the added expenses required for dedicated hardware and facilities. 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 and the DGS-1100-24P 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 switch'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.

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. without a link.







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.

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						
Hardware Version	A	A	A	B	B	B
Number of Ports	5	8	8	16	24	24
Port Standard & Functions	IEEE 802.3 compliant IEEE 802.3u compliant IEEE 802.3ab compliance IEEE 802.3af (DGS-1100-08P, -24P) IEEE 802.3at (DGS-1100-24P) 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		



DGS-1100 Series Gigabit EasySmart Switches

Performance	DGS-1100-05	DGS-1100-08	DGS-1100-08P	DGS-1100-16	DGS-1100-24	DGS-1100-24P
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 Size	8K Entries	8K Entries	8K Entries	8K Entries	8K Entries	8K Entries
Packet Buffer	1Mbits	2Mbits	2Mbits	512Kbits	512Kbits	512Kbits
Forwarding Mode	Store and Forward	Store and Forward	Store and Forward	Store and Forward	Store and Forward	Store and Forward
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) 21.24 W (PoE off)
Standby Power Consumption	0.99 Watts	1.23 Watts	2.0 Watts	7.96 Watts	10.37 Watts	12.94 Watts
Fan Quantity	Fanless	Fanless	Fanless	Fanless	Fanless	One Fan
Acoustics	0 dB(A)	0 dB(A)	0 dB(A)	0 dB(A)	0 dB(A)	41.9 dB(A)
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 Temp.	32 to 104 °F (0 to 40 °C)			23 to 122 °F (-5 to 50 °C)		
Storage Temp.	14 to 158 °F (-10 to 70 °C)			-40 to 158 °F (-40 to 70 °C)		
Operating Humidity	10% to 95% non-condensing			0% to 95% non-condensing		
Storage Humidity	5% to 95% non-condensing			0% 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)	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)
Weight	0.7 lbs (0.32kg)	0.93 lbs (0.42kg)	1.6lbs (0.71 kg)	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 only)					
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	<ul style="list-style-type: none"> • Port-based VLAN • 802.1Q Tagged VLAN • Surveillance VLAN • Voice VLAN • Management VLAN 	<ul style="list-style-type: none"> • Asymmetric VLAN (DGS-1100-16/-24/-24P) • VLAN Group <ul style="list-style-type: none"> • Supports 32 static VLAN groups (DGS-1100-05/-08/-08P) • Supports 128 static VLAN groups (DGS-1100-16, -24, -24P) • Max. 4094 VIDs
L2 Features	<ul style="list-style-type: none"> • Flow Control <ul style="list-style-type: none"> • 802.3x Flow Control • HOL Blocking Prevention • Jumbo Frames up to 9216 Bytes • IGMP Snooping <ul style="list-style-type: none"> • IGMP v1/v2 Snooping • Supports 32 Groups (DGS-1100-05/08/08P) • Supports 64 Groups (DGS-1100-16/24/24P) • Link Aggregation <ul style="list-style-type: none"> • 1 group, 2-4 ports per group (DGS-1100-05) • 2 groups, 2-4 ports per group (DGS-1100-08/08P) • 8 groups, 8 ports per group (DGS-1100-16) • 12 groups, 2-4 ports per group (DGS-1100-24/24P) 	<ul style="list-style-type: none"> • Loopback Detection • Cable Diagnostics • LLDP • Port Mirroring <ul style="list-style-type: none"> • One-to-One • Many-to-One • Statistics <ul style="list-style-type: none"> • Tx Ok • Tx Error • Rx Ok • Rx Error • Spanning Tree Protocol (DGS-1100-16/24/24P) <ul style="list-style-type: none"> • 802.1D STP • 802.1w RSTP
QoS	<ul style="list-style-type: none"> • 802.1p Quality of Service • 4 queues per port • Queue Handling <ul style="list-style-type: none"> • Strict • Weighted Round Robin (WRR) 	<ul style="list-style-type: none"> • Bandwidth Control <ul style="list-style-type: none"> • DGS-1100-05/08/08P <ul style="list-style-type: none"> • Port Based • Ingress: minimum granularity 8 Kbps • Egress: minimum granularity 8 Kbps • DGS-1100-16/24/24P <ul style="list-style-type: none"> • Port Based • Ingress: minimum granularity 8 Kbps • Egress: minimum granularity 64 Kbps
Security	<ul style="list-style-type: none"> • Static MAC Address <ul style="list-style-type: none"> • Max. 32 entries (DGS-1100-05/08/08P) • Max. 64 entries (DGS-1100-16/24/24P) 	<ul style="list-style-type: none"> • Broadcast/Multicast/Unknown Unicast Storm Control
Management	<ul style="list-style-type: none"> • Web-Based GUI (Supports IPv4) • D-Link Network Assistant Utility (DGS-1100-16/24/24P) 	<ul style="list-style-type: none"> • SmartConsole Utility (DGS-1100-05/08/08P)
D-Link Green	<ul style="list-style-type: none"> • Power Saving by: <ul style="list-style-type: none"> • Link Status • Cable Length (DGS-1100-05/-08/-08P) • LED Shut-off (DGS-1100-16/-24/-24P) • Port Shut-off (DGS-1100-16/-24/-24P) • System hibernation (DGS-1100-16/-24/-24P) 	<ul style="list-style-type: none"> • Energy Efficient Ethernet (IEEE 802.3az) • RoHS Compliant
RFC Standard List	<ul style="list-style-type: none"> • RFC 768 UDP • RFC 791 IP • RFC 792 ICMP • RFC 793 TCP • RFC 826 ARP • RFC 1213 MIB II • RFC 1493 Bridge MIB • RFC 1907 SNMPv2 MIB • RFC 1215 MIB Traps Convention 	<ul style="list-style-type: none"> • RFC2233 Interface Group MIB • RFC2665 Ether-like MIB • 802.1p MIB RFC4363 • ZoneDefense MIB • Private MIB • RFC 951 BootP Client • RFC 1542 BootP/DHCP client • RFC 4363 802.1p • RFC 2236 IGMP Snooping

DGS-1100 Series Gigabit EasySmart Switches

Ordering Information

Product	Description	Warranty
DGS-1100-05	5-Port Gigabit EasySmart Metal Desktop Switch	Limited Lifetime ¹
DGS-1100-08	8-Port Gigabit EasySmart Metal Desktop Switch	Limited Lifetime ¹
DGS-1100-08P	8-Port Gigabit EasySmart Metal Desktop PoE Switch	Limited Lifetime ¹
DGS-1100-16	16-Port Gigabit EasySmart Metal Desktop or Rackmount Switch	Limited Lifetime ¹
DGS-1100-24	24-Port Gigabit EasySmart Metal Desktop or Rackmount Switch	Limited Lifetime ¹
DGS-1100-24P	24-Port Gigabit EasySmart Metal Desktop or Rackmount Switch with 12 PoE+ Ports	Limited Lifetime ¹

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 27-July-2015

Hardware Rev A (DGS-1100-05 / DGS-1100-08 / DGS-1100-08P)

Hardware Rev B (DGS-1100-16 / DGS-1100-24 / DGS-1100-24P)

DGS-1100-SERIES_REVAB_DATASHEET_1.04_EN_US.PDF

For more information

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