

Product Highlights

Gigabit Ethernet Speed

High-speed ports provide the latest Ethernet technology while remaining backward compatible for connections to older computers and equipment

Revolutionary Energy Efficiency

Innovative D-Link Green features help conserve energy without affecting performance so you can reduce operating costs and protect the environment

Smart and Flexible Management

Powerful switch management functions can be performed through a web management interface or through the SmartConsole Utility



DGS-1100 Series

EasySmart Switches

Features

Physical

- 8, 16, or 24 Gigabit Ethernet ports
- · Fanless design for silent operation

D-Link Green Technology

- Power Saving by Link Status
- Power Saving by Cable Length
- IEEE 802.3az compliant

Advanced Features

- IGMP Snooping
- Bandwidth Control
- Static MAC

VLAN Features

- Voice VLAN
- 802.1Q VLAN for traffic segregation
- Port-based VLAN

Quality of Service

- 802.1p
- Surveillance VLAN

Easy Troubleshooting

- · Loopback Detection with auto disable
- Cable Diagnostics

Management Features

- · Web-based GUI
- SmartConsole Utility

D-Link's DGS-1100 Series of EasySmart Switches provide an affordable solution for SOHOs and Small and Medium Businesses as well as enterprise deployment, such as in branch offices and meeting rooms that require simple network management. Each model comes in a compact desktop-sized metal case and features either 8, 16, or 24 Gigabit ports.

D-Link Green/Power Saving Performance

Compliant with IEEE802.3az Energy Efficient Ethernet, 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 automatically save energy. The switches automatically detect the length of the connected cables and can adjust power usage for cables shorter than 20 meters. In addition, 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 EasySmart Switches support an intuitive SmartConsole Utility and a web-based management interface. The SmartConsole 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.



DGS-1100 Series EasySmart Switches

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 in a per port base for important functions that require a larger bandwidth or might have high priority.



DGS-1100-08

Easy Troubleshooting

These EasySmart 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 shut down the affected port. The Cable Diagnostics feature is designed for network administrators to quickly examine the quality of the copper cables, recognize the cable type, and detect cable errors.



DGS-1100-16

Advanced Features

DGS-1100 Series is 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.



DGS-1100-24

Technical Specifications			
General	DGS-1100-08	DGS-1100-16	DGS-1100-24
Size	Desktop Size	11-inch Desktop/Rackmount Size, 1U Height	
Number of Ports	Eight 10/100/1000 Gigabit ports	Sixteen 10/100/1000 Gigabit ports	Twenty-four 10/100/1000 Gigabit ports
Port Functions	IEEE 802.3 compliant IEEE 802.3u compliant Supports half/full-duplex operation (half at 10/100 Mbps, full at 1000 Mbps) Auto-negotiation Auto MDI/MDIX IEEE 802.3x Flow Control supports Full-Duplex mode IEEE 802.3az compliant		

Performance	DGS-1100-08	DGS-1100-16	DGS-1100-24
Switching Capacity	16 Gbps	32 Gbps	48 Gbps
Maximum Forwarding Rate	11.9 Mpps	23.81 Mpps	35.71 Mpps
MAC Address Table Size	8K Entries		
Packet Buffer	256 KB 3.5 Mbits		
Flash Memory	2 MB		



DGS-1100 Series EasySmart Switches

LEDs	DGS-1100-08	DGS-1100-16	DGS-1100-24
Power (per device)	✓	✓	✓
Link/Activity/Speed (per port)	✓	✓	✓

Power Consumption	DGS-1100-08	DGS-1100-16	DGS-1100-24
Standby Mode	0.62 watts	5.64 watts	6.49 watts
Maximum	4.58 watts	11.29 watts	14.83 watts

Physical	DGS-1100-08	DGS-1100-16	DGS-1100-24	
Power Input	100 to 240 V AC 50 to 60 Hz External Universal Power Supply	100 to 240 V AC 50 to 60 Hz Internal Universal Power Supply		
MTBF (hours)	503,585 hours	988,205 hours	774,990 hours	
Acoustics		0 dB		
Heat Dissipation	2.936 BTU/hr	38.52 BTU/hr	50.60 BTU/hr	
Weight	0.42 kg (0.925 pounds)	1.5 kg (3.3 pounds)	1.6 kg (3.5 pounds)	
Dimensions	171 x 98 x 28 mm (6.7 x 3.85 x 1.1 inches) 280 x 180 x 44 mm (11 x 7.1 x 1.73 inches)			
Ventilation	Fanless			
Operating Temperature	0 to 40 °C (32 to 104 °F)			
Storage Temperature	-10 to 70 °C (14 to 158 °F)			
Operating Humidity	10% to 95% non-condensing			
EMI	FCC Class A, CE Class A, VCCI Class A, ICES-003, C-Tick			
Safety	cUL, CE LVD			

Software Features		
L2 Features	 MAC Address Table: 8K Flow Control 802.3x Flow Control HOL Blocking Prevention IGMP Snooping IGMP v1/v2 Snooping Supports 32 Groups Static Trunk DGS-1100-08: 2 groups, 2-4 ports per group DGS-1100-16/24: 8 groups, 2-4 ports per group 	 Loopback Detection Cable Diagnostics Port Mirroring One-to-One Many-to-One (DGS-1100-16/24) Statistics Tx Ok Tx Error Rx Ok Rx Error
VLAN	Port-based 802.1Q Tagged VLAN Surveillance VLAN Management VLAN	VLAN GroupSupports 32 static VLAN groupsMax. 4094 VIDs

DGS-1100 Series EasySmart Switches

Quality of Service (QoS)	 802.1p Quality of Service 4 queues per port Queue Handling Strict Weighted Round Robin (WRR) 	 Bandwidth Control DGS-1100-08: Port-based (Ingress/Egress, min. granularity 8 Kb/s) DGS-1100-16/24: Port-based (Ingress/Egress, min. granularity 64 Kb/s)
Security	Static MAC AddressDGS-1100-08: up to 32 entriesDGS-1100-16/24: up to 128 entries	Broadcast/Multicast/Unknown Unicast Storm Control
Management	Web-based GUI (Supports IPv4)	SmartConsole Utility
D-Link Green	Power Saving by Link Status Cable Length	 Compliance with IEEE 802.3az Energy Efficient Ethernet Compliant with RoHS 6
RFC Standard List	• 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

Order Information	
DGS-1100-08	Eight 10/100/1000 Base-T Port EasySmart Switch
DGS-1100-16	Sixteen 10/100/1000 Base-T Port EasySmart Switch
DGS-1100-24	Twenty-four 10/100/1000 Base-T Port EasySmart Switch

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