



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

- IGMP Snooping
- Surveillance VLAN
- Bandwidth Control

VLAN Features

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

QoS (Quality of Service)

- 802.1p

Easy Troubleshooting

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

Management Features

- Web-based GUI
- SmartConsole Utility

EasySmart Switches

D-Link's DGS-1100 Series is the newest addition to EasySmart Switches featuring D-Link Green Technology. The DGS-1100 Series consists of 16 and 24 10/100/1000 Mbps port models and comes in a compact 11" desktop/rackmount enclosure. Compliant with IEEE802.3az Energy Efficient Ethernet, this switch consumes less power during idle periods. These switches 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 SmartConsole Utility. The DGS-1100 Series also supports Layer 2 features such as IGMP snooping to optimize performance for multicast applications. A fanless design allows for quieter operation and provides a longer product life.

The DGS-1100 Series provides an affordable solution for Small and Medium Business, and for communities without IT staff. They are also suitable for enterprise deployment, such as in branch offices and meeting rooms that require simple network management.

Surveillance VLAN and Bandwidth Control

The DGS-1100 Series supports Surveillance VLAN, which is best suited for video surveillance deployment. Surveillance VLAN is a new, industry-leading technology that consolidates data and surveillance video transmission through a single DGS-1100 switch, thus sparing businesses the expense of dedicated hardware and facilities. 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 might have high priority.

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 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 reduces power consumption when a port is without a link.

Easy to deploy

The DGS-1100 EasySmart Switches support an intuitive SmartConsole utility and a web-based management interface that enables administrators to remotely control their network down to the port level. The SmartConsole allows customers to discover multiple D-Link Smart and Easy Smart Switches 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.

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.



Technical Specifications

DGS-1100-16

DGS-1100-24



Port Standards & Functions	Size	11-inch Desktop/Rackmount Size, 1U Height	
	Interface	16 10/100/1000 Mbps ports	24 10/100/1000 Mbps 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	Switching Capacity	32 Gbps	48 Gbps
	Max. Forwarding Rate	23.81 Mpps	35.71 Mpps
	MAC Address Table Size	8K Entries	
	Packet Buffer	3.5 Mbits	
	Flash Memory	2 MB	
LEDs	Power (Per Device)	✓	
	Link/Activity/Speed (Per Port)	✓	
Power Consumption	Standby Mode	5.64 watts	6.49 watts
	Maximum	11.29 watts	14.83 watts
Power Input	100 to 240 VAC, 50 to 60 Hz Internal Universal Power Supply		
MTBF (Hours)	988,205 hours	774,990 hours	
Acoustics	0 dB		
Heat Dissipation	38.52 BTU/hr	50.60 BTU/hr	
Weight	1.5 kg	1.6 kg	
Dimensions (W x D x H)	280 x 180 x 44 mm		
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		

EasySmart Switches

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
- Loopback Detection
- Static Trunk
 - 8 groups, 2-4 ports per group
- Port Mirroring
 - One-to-One
 - Many-to-One
- Cable Diagnostics
- Statistics
 - Tx Ok
 - Tx Error
 - Rx Ok
 - Rx Error

VLAN

- Port-based
- 802.1Q Tagged VLAN
- VLAN Group
 - Supports 32 static VLAN groups
 - Max. 4094 VIDs
- Surveillance VLAN

Quality of Service (QoS)

- 802.1p Quality of Service
- 4 queues per port
- Queue Handling
 - Strict
 - Weighted Round Robin (WRR)
- Bandwidth Control
 - Port-based (Ingress/Egress, min. granularity 64 Kb/s)

Security

- Static MAC (Max. 128 entries)
- Broadcast/Multicast/Unknown Unicast Storm Control

Management

- Web-based GUI (Supports IPv4)
- SmartConsole Utility

D-Link Green

- Compliance with IEEE 802.3az Energy Efficient Ethernet
- Power Saving by
 - Link Status
 - Cable Length
- 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