DGS-1100
EasySmart Switch Series

EasySmart Switches

Energy Efficient Ethernet
- IEEE 802.3az draft 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
- Auto-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

D-Link's DGS-1100 Series is the newest addition to the family of EasySmart switches featuring D-Link Green Technology. Compliant with IEEE802.3az Energy Efficient Ethernet, this switch consumes less power during idle periods. The DGS-1100 Series consists of 16 and 24 Gigabit port models and comes in a compact 11" desktop/rackmount enclosure. These switches also implement D-Link Green features which 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 features such as port VLANs, Quality of Service (QoS), and IGMP snooping to optimise performance for multicast applications. Its 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, without IT staff. They are also suitable for Enterprise deployment, such as in branch offices and meeting rooms that require simple network management.

Auto Surveillance VLAN and Bandwidth Control
The DGS-1100 Series supports Auto Surveillance VLAN (ASV), which is best suited for video surveillance deployment. Auto Surveillance VLAN is a new, industry-leading technology incorporated into the D-Link EasySmart Switch Series that consolidates data and surveillance video transmission through a single switch, thus sparing businesses the expense of dedicated hardware and facilities. ASV 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 (EEE), these switches consume less energy by cutting down on power consumption when the traffic volume is low. This new standard allows for less power consumption during idle periods of low link use. 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. The switches automatically detect the length of connected cables and can adjust power usage for shorter cable connections of up to 20 meters, saving energy automatically. Power saving by Link Status drastically reduces power consumption by automatically placing ports without a link in sleep mode.

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 EasySmart Switches within the same network segment. With this utility, users do not need to change the IP address of their PC to discover their EasySmart switches, and it also makes initial setup quick and easy. This allows for extensive switch configuration and basic setup of discovered devices, including password changes and firmware upgrades.

The heart of the network

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EasySmart Switches

D-Link Assist
Rapid Response Support

If the worst should happen to your network you need the very best support and fast. Downtime costs their business money. D-Link Assist maximises their uptime by solving technical problems quickly and effectively. Our highly-trained technicians are on standby around the clock, ensuring that award-winning support is only a phone call away.

With a choice of three affordable service offerings covering all D-Link business products, you can select the package that suits you best:

D-Link Assist Gold - for comprehensive 24-hour support
D-Link Assist Gold is perfect for mission-critical environments where maximum uptime is a high priority. It guarantees four hour around-the-clock response. Cover applies 24/7 for every day of the year including holidays.

D-Link Assist Silver - for prompt same-day assistance
D-Link Assist Silver is designed for 'high availability' businesses that require rapid response within regular working hours. It provides a four hour response service Monday to Friday from 8am to 5pm, excluding holidays.

D-Link Assist Bronze - for guaranteed response on the next business day
D-Link Assist Bronze is a highly cost-effective support solution for less critical environments. Response is guaranteed within eight business hours Monday to Friday from 8am to 5pm, excluding holidays.

D-Link Assist can be purchased together with any D-Link business product. So whether you're buying switching, wireless, storage, security or IP Surveillance equipment from D-Link, your peace of mind is guaranteed. D-Link Assist also offers installation and configuration services to get your new hardware working quickly and correctly.

Resilience/Performance Enhancement

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 set static MAC addresses to designated ports to extend security on the network.

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
• 802.1Q Tagged VLAN
• VLAN Group
　-Supports 32 static VLAN groups
　-Max. 4094 VIDs
• Auto Surveillance VLAN

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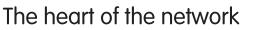　-Port-based (Ingress/Egress, min. granularity 64 Kb/s)

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

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Technical Specifications

		DGS-1100-16	DGS-1100-24
Port Standards & Functions	Size	11-inch Desktop Size, 1U Height	11-inch Desktop 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 1000Mbps Auto-negotiation Auto MDI/MDIX IEEE 802.3x Flow Control supports Full-Duplex mode	
Performance	Switching Capacity	32 Gbps	48 Gbps
	Max. Forwarding Rate	23.81 Mpps	35.71 Mpps
	MAC Address Table-Size	8K Entries	8K Entries
	Packet Buffer	3.5 Mbits	3.5 Mbits
	Flash Memory	2 MB	2 MB
LEDs	Power (Per Device)	√	√
	Link/Activity/Speed (Per Port)	√	√
MTBF (Hours)		988.205 hours	774.990 hours
Acoustic		0 dB	0 dB
Heat Dissipation		38.52 BTU per hour	50.60 BTU per hour
Power Input		100 to 240 VAC, 50 to 60 Hz Internal Universal Power Supply	
Power Consumption	Standby Mode	5.64 watts	6.49 watts
	Maximum	11.29 watts	14.83 watts
Weight		1.5 kg	1.6 kg
Dimensions		280 (W) x 180 (D) x 44 (H) мм	280 (W) x 180 (D) x 44 (H) мм
Ventilation DC Fan		Fanless	Fanless
Operating Temperature		0 to 40˚ C (32 to 104ºF)	
Storage Temperature		-10 to 70˚ C (14 to 158ºF)	
Operating Humidity		10% to 95% non-condensing	
EMI		FCC Class A, CE Class A, VCCI Class A, IC, C-Tick	
Safety		UL/cUL, LVD	

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