

## Product Highlights

### Gigabit Ethernet Speed

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

### Revolutionary Energy Efficiency

Innovative D-Link Green features help to 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 D-Link Network Assistant Utility



## DGS-1100 Series

# Gigabit Smart Managed Switches

## Features

### Physical

- Various selection of port counts, with or without PoE and fiber support
- Fanless design for silent operation (non-PoE models only)

### Green Technology

- Link Status detection
- IEEE 802.3az compliant
- Time-based PoE (PoE models excluding DGS-1100-08P)

### Advanced Features

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

### Management Features

- Client-based utility or web-based GUI
- Built-in SNMP MIB<sup>1</sup>

### Surveillance Features (MP Models)

- Full PoE budget and ultra-high power ports
- Per-port 6 kV surge protection

D-Link's DGS-1100 Series 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. Most models comes in a compact desktop-sized metal case and features a wide selection of Gigabit port configurations with optional Gigabit fibre uplink ports. There are 4 switches in the series supporting Power-over-Ethernet with 2 of the switches in the offering high-power-budget PoE for businesses looking to power VoIP phones, wireless access points or network cameras. The 10-port DGS-1100-10MP supports up to 30W on eight ports with a power budget of 130W, whereas the DGS-1100-26MP provides 24 PoE-enabled ports, a power budget of 370W, and all PoE-enabled ports supports up to 30W. Advanced management features, diagnostic and troubleshooting tools, and energy efficient technologies provide a flexible solution to suit your networking requirements.

## Easy to deploy

The DGS-1100 Series supports an intuitive D-Link Network Assistant Utility and a web-based management interface. The D-Link Network Assistant Utility allows customers to discover all switches in the D-Link Smart Managed Switch family within the same L2 network segment. With this utility, users do not need to change the IP address of their PC, which also makes the initial setup of the Smart Managed 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.

## Auto Surveillance VLAN and Bandwidth Control

The DGS-1100 Series supports Auto Surveillance VLAN (ASV), and Auto Voice VLAN, which are best suited for VoIP and video surveillance deployments. Auto Surveillance VLAN consolidates data and surveillance video transmission through a single DGS-1100 Series 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. The Auto Voice VLAN technology enhances the VoIP service by automatically placing voice traffic from an IP phone to an assigned VLAN. With higher priority and individual VLAN, these features guarantee the quality and security of VoIP traffic. Bandwidth Control can reserve bandwidth on a per port basis for important functions that require larger bandwidth or have high priority.

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

## 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 authorised 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.

## PoE Support

The DGS-1100-08P/24P/10MP/26MP provide support for Power over Ethernet (PoE), reducing deployment time for IP cameras, VoIP phones, and access points. Dedicated power adapters are no longer required, as the DGS-1100-24P/10MP/26MP comply with IEEE 802.3af and 802.3at PoE standards and provide up to 30 watts per port. The DGS-1100-08P complies with the 802.3af standard and provides up to 15.4 watts per port.



If the worst should happen to your network you need the very best support and fast. Downtime costs your business money. D-Link Assist maximises your 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.

## Technical Specifications

General	DGS-1100-08	DGS-1100-16	DGS-1100-18	DGS-1100-24	DGS-1100-26
Size	Desktop	11-inch Desktop/Rackmount Size, 1U Height			
Number of Ports	• 8 10/100/1000 Mbps	• 16 10/100/1000 Mbps	• 16 10/100/1000 Mbps • 2 SFP 1000 Mbps	• 24 10/100/1000 Mbps	• 24 10/100/1000 Mbps • 2 SFP 1000 Mbps
Port Functions	<ul style="list-style-type: none"> <li>IEEE 802.3 compliant</li> <li>IEEE 802.3u compliant</li> <li>IEEE 802.3ab compliance</li> <li>IEEE 802.3az compliant</li> <li>Auto-negotiation</li> </ul>		<ul style="list-style-type: none"> <li>Auto MDI/MDIX</li> <li>IEEE 802.3x Flow Control supports Full-Duplex mode</li> <li>Supports half/full-duplex operation (full/half at 10/100 Mbps, full at 1000 Mbps)</li> </ul>		
<b>Performance</b>					
Switching Capacity	16 Gbps	32 Gbps	36 Gbps	48 Gbps	52 Gbps
Maximum Forwarding Rate	11.9 Mpps	23.81 Mpps	26.79 Mpps	35.71 Mpps	38.69 Mpps
MAC Address Table Size	8K Entries	8K Entries	16K Entries	8K Entries	16K Entries
Packet Buffer	2 Mbits	512 Kbits	1.5 Mbits	512 Kbits	1.5 Mbits
Flash Memory	2 Mbyte	8 Mbyte			
<b>LEDs</b>					
Power (per device)	✓	✓	✓	✓	✓
Link/Activity/Speed (per port)	✓	✓	✓	✓	✓
<b>Power Consumption</b>					
Maximum	4.89 watts	9.31 watts	14.88 watts	13.94 watts	19.04 watts
<b>Physical</b>					
Power Input	100 to 240 V AC 50 to 60 Hz External Power Adapter	100 to 240 V AC 50 to 60 Hz Internal Power Supply			
MTBF	503,585 hours	2,827,541 hours	2,671,256 hours	2,406,109 hours	2,277,645 hours
Acoustics	0 dB(A)				
Heat Dissipation	16.68 BTU/hr	31.77 BTU/hr	50.77 BTU/hr	47.57 BTU/hr	64.97 BTU/hr
Weight	0.42 kg (0.925 lbs)	1.53 kg (3.37 lbs)	1.56 kg (3.44 lbs)	1.63 kg (3.59 lbs)	1.66 kg (3.66 lbs)
Dimensions	171 x 98 x 28 mm (6.7 x 3.85 x 1.1 inches)	280x 180x 44 mm (11.02 x 7.08 x 1.73 inches)	280x 180x 44 mm (11.02 x 7.08 x 1.73 inches)	280x 180x 44 mm (11.02 x 7.08 x 1.73 inches)	280x 180x 44 mm (11.02 x 7.08 x 1.73 inches)
Ventilation	Fanless				
Operating Temperature	0 to 40 °C (32 to 104 °F)	-5 to 50 °C (23 to 122 °F)			
Storage Temperature	-10 to 70 °C (14 to 158 °F)	-40 to 70 °C (-40 to 158 °F)			
Operating Humidity	10% to 95% non-condensing	0% to 95% non-condensing			
Storage Humidity	5% to 95% non-condensing	0% to 95% non-condensing			
EMI	FCC Class A, CE Class A, VCCI Class A, C-Tick	FCC Class A, CE Class A, VCCI Class A, C-Tick, BSMI, CCC			
Safety	cUL, CE LVD	cUL, CE LVD, CB, BSMI, CCC			

## Technical Specifications

General	DGS-1100-08P	DGS-1100-10MP	DGS-1100-24P	DGS-1100-26MP
Size	Desktop	11-inch Desktop/Rackmount Size, 1U Height	11-inch Desktop/Rackmount Size, 1U Height	19-inch Rackmount Size, 1U Height
Number of Ports	<ul style="list-style-type: none"> <li>• 8 10/100/1000 Mbps (Ports 1 to 8 are PoE enabled)</li> </ul>	<ul style="list-style-type: none"> <li>• 8 10/100/1000 Mbps (Ports 1 to 8 are PoE enabled)</li> <li>• 2 SFP 1000 Mbps</li> </ul>	<ul style="list-style-type: none"> <li>• 24 10/100/1000 Mbps (Ports 1 to 12 are PoE enabled)</li> </ul>	<ul style="list-style-type: none"> <li>• 24 10/100/1000 Mbps (Ports 1 to 24 are PoE enabled)</li> <li>• 2 Combo 1000 Mbps</li> </ul>
Port Functions	<ul style="list-style-type: none"> <li>• IEEE 802.3 compliant</li> <li>• IEEE 802.3u compliant</li> <li>• IEEE 802.3ab compliance</li> <li>• IEEE 802.3af / 802.3at (excluding DGS-1100-08P)</li> <li>• IEEE 802.3x Flow Control supports Full-Duplex mode</li> </ul>		<ul style="list-style-type: none"> <li>• Support manual/auto MDI/MDIX configuration</li> <li>• Auto-negotiation</li> <li>• Support Half/Full-Duplex operation</li> <li>• IEEE 802.3az compliant</li> <li>• Per-port 6 kV surge protection<sup>2</sup></li> </ul>	
Performance				
Switching Capacity	16 Gbps	20 Gbps	48 Gbps	52 Gbps
Maximum Forwarding Rate	11.9 Mpps	14.88 Mpps	35.71 Mpps	38.69 Mpps
MAC Address Table Size	8K Entries	16K Entries	8K Entries	16K Entries
Packet Buffer	2 Mbits	1.5 Mbits	512 Kbits	1.5 Mbits
Flash Memory	2 Mbyte	16 MBytes	8 Mbyte	16 MBytes
PoE				
PoE Standard	802.3af	802.3af/802.3at	802.3af/802.3at	802.3af/802.3at
PoE Capable Ports	Port 1 to 8	Port 1 to 8	Port 1 to 12	Port 1 to 24
PoE Power Budget	64 W	130 W	100 W	370 W
LEDs				
Power (per device)	✓	✓	✓	✓
Link/Activity/Speed (per port)	✓	✓	✓	✓
Power Consumption				
Maximum	78.8 watts (PoE on)	141.4 watts (PoE on)	128.32 watts (PoE on)	387 watts (PoE on)
Physical				
Power Input	100 to 240 V AC, 50 to 60 Hz External Power Supply	100 to 240 V AC 50 to 60 Hz Internal Power Supply		
MTBF	708,219 hours	291,575 hours	563,292 hours	269,291 hours
Acoustics	0 dB(A)	45.4 dB(A)	44.5 dB(A)	56 dB(A)
Heat Dissipation	268.87 BTU/hr	570.51 BTU/hr	437.85 BTU/hr	1470.46 BTU/hr
Weight	0.706 kg (1.553 pounds)	1.83 kg	2.15 kg (4.74 lbs)	3.81 kg
Dimensions	190 x 120 x 38 mm	280 x 180 x 44 mm	280x 230x 44 mm	440 x 290 x 44 mm
Ventilation	Fanless	1 x Fan	1 Fan	2 x Fan
Operating Temperature	0 to 40 °C (32 to 104 °F)	-5 to 50 °C (23 to 122 °F)		
Storage Temperature	-10 to 70 °C (14 to 158 °F)	-40 to 70 °C (-40 to 158 °F)		
Operating Humidity	10% to 95% non-condensing	0% to 95% non-condensing		
Storage Humidity	5% to 95% non-condensing	0% to 95% non-condensing		
EMI	FCC Class A, CE Class A, VCCI Class A, C-Tick	FCC/IC, CE, VCCI, RCM, BSMI	FCC Class A, CE Class A, VCCI Class A, C-Tick, BSMI, CCC	FCC/IC, CE, VCCI, RCM, BSMI
Safety	cUL, CE LVD	cUL, UL, GS, CB	cUL, CE LVD, CB, BSMI, CCC	cUL, UL, GS, CB

Software Features (DGS-1100-10MP/16/18/24/24P/26P/26MP)		
VLAN	<ul style="list-style-type: none"> <li>• Port-based VLAN</li> <li>• 802.1Q tagged VLAN</li> <li>• Auto Surveillance VLAN</li> <li>• Voice VLAN</li> <li>• Management VLAN</li> </ul>	<ul style="list-style-type: none"> <li>• Asymmetric VLAN</li> <li>• VLAN Group               <ul style="list-style-type: none"> <li>• Supports 128 static VLAN groups</li> <li>• Max. 4094 VIDs</li> </ul> </li> </ul>
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>• Jumbo Frames up to 9216 Bytes</li> <li>• IGMP Snooping               <ul style="list-style-type: none"> <li>• IGMP v1/v2/v3 awareness Snooping</li> <li>• Supports 64 Groups</li> <li>• IGMP Snooping Querier</li> </ul> </li> <li>• 802.3ad Link Aggregation:               <ul style="list-style-type: none"> <li>• DGS-1100-16: Support max 8 groups per device and 8 ports per group</li> <li>• DGS-1100-10MP: Support 5 groups per device and 8 ports per group</li> <li>• DGS-1100-18: Support max 9 groups per device and 8 ports per group</li> <li>• DGS-1100-24P: Support max 12 groups per device and 8 ports per group</li> <li>• DGS-1100-26: Support max 13 groups per device and 8 ports per group</li> <li>• DGS-1100-26MP: Support 13 groups per device and 8 ports per group</li> </ul> </li> <li>• Loopback Detection</li> </ul>	<ul style="list-style-type: none"> <li>• Ethernet Ring Protection Switching<sup>2</sup> <ul style="list-style-type: none"> <li>• G.8032 ERPS</li> </ul> </li> <li>• Cable Diagnostics</li> <li>• LLDP</li> <li>• Port Mirroring               <ul style="list-style-type: none"> <li>• One-to-One</li> <li>• Many-to-One</li> </ul> </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> <li>• Spanning Tree Protocol               <ul style="list-style-type: none"> <li>• 802.1D STP</li> <li>• 802.1w RSTP</li> </ul> </li> </ul>
Quality of Service (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>• Port-based Bandwidth Control (Rate Limiting)               <ul style="list-style-type: none"> <li>• Ingress: 8 Kbps</li> <li>• Egress: 64 Kbps</li> </ul> </li> </ul>
Security	<ul style="list-style-type: none"> <li>• D-Link Safeguard</li> <li>• Traffic Segmentation</li> <li>• Broadcast/Multicast/Unknown Unicast Storm Control</li> </ul>	<ul style="list-style-type: none"> <li>• DoS Attack Prevention</li> <li>• SSL</li> </ul>
Management	<ul style="list-style-type: none"> <li>• Web-based GUI (Supports IPv4/IPv6)</li> </ul>	<ul style="list-style-type: none"> <li>• D-Link Network Assistant Utility</li> </ul>
Green Technology	<ul style="list-style-type: none"> <li>• Power Saving by               <ul style="list-style-type: none"> <li>• Link Status</li> <li>• LED Shut-Off</li> <li>• Port Shut-Off</li> <li>• System Hibernation</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Compliant with IEEE 802.3az Energy Efficient Ethernet</li> </ul>
MIB/RFC Standards	<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> <li>• RFC 1213 MIB II</li> <li>• RFC1493 Bridage MIB</li> <li>• RFC1907 SNMPv2 MIB</li> <li>• RFC1215 MIB Traps Convention</li> </ul>	<ul style="list-style-type: none"> <li>• RFC2233 Interface Group MIB</li> <li>• RFC2665 Ether-like MIB</li> <li>• 802.1p MIB RFC4363</li> <li>• ZoneDefense MIB</li> <li>• Private MIB</li> <li>• RFC 951 BootP client</li> <li>• RFC 1542 BootP/DHCP client</li> <li>• RFC 4363 802.1p</li> <li>• RFC 2236 IGMP Snooping</li> </ul>

# DGS-1100 Series Gigabit Smart Managed Switches

Software Features (DGS-1100-08/08P)		
VLAN	<ul style="list-style-type: none"> <li>• Port-based VLAN</li> <li>• 802.1Q tagged VLAN</li> <li>• Surveillance VLAN</li> <li>• Voice VLAN</li> <li>• Management VLAN</li> </ul>	<ul style="list-style-type: none"> <li>• VLAN Group               <ul style="list-style-type: none"> <li>• Supports 32 static VLAN groups</li> <li>• Max. 4094 VIDs</li> </ul> </li> </ul>
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>• Jumbo Frames up to 9216 Bytes</li> <li>• IGMP Snooping               <ul style="list-style-type: none"> <li>• IGMP v1/v2 Snooping</li> <li>• Supports 32 Groups</li> </ul> </li> <li>• Static Trunk               <ul style="list-style-type: none"> <li>• 2 groups, 2-4 ports per group</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Loopback Detection</li> <li>• Cable Diagnostics</li> <li>• Port Mirroring               <ul style="list-style-type: none"> <li>• One-to-One</li> </ul> </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>
Quality of Service (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>• Port-based (Ingress/Egress, min. granularity 8 Kb/s)</li> </ul> </li> </ul>
Security	<ul style="list-style-type: none"> <li>• Static MAC Address               <ul style="list-style-type: none"> <li>• up to 32 entries</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> </ul>	<ul style="list-style-type: none"> <li>• Client-based Utility (SmartConsole Utility)</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>• Compliant with IEEE 802.3az Energy Efficient Ethernet</li> <li>• Compliant with RoHS 6</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> <li>• RFC 2236, 4451 IGMP Snooping</li> </ul>
Optional SFP Transceivers		
DEM-310GT	1000BASE-LX, single-mode, 10 km	
DEM-311GT	1000BASE-SX, multi-mode, 550 m	
DEM-314GT	1000BASE-LHX, single-mode, 50 km	

<sup>1</sup> Supported by the DGS-1100-10MP/16/18/24/24P/26/26MP

<sup>2</sup> For DGS-1100-10MP/26MP only



For more information: [www.dlink.com](http://www.dlink.com)

**D-Link European Headquarters.** D-Link (Europe) Ltd., D-Link House, Abbey Road, Park Royal, London, NW10 7BX. Specifications are subject to change without notice. D-Link is a registered trademark of D-Link Corporation and its overseas subsidiaries. All other trademarks belong to their respective owners. ©2015 D-Link Corporation. All rights reserved. E&OE.

Updated December 2015

**D-Link®**  
Building Networks for People