D-Link®

DGS-1100 (V2) Series
Gigabit Smart Managed Switches

Features

Physical
- Available in multiple configurations, with or without PoE and fibre support
- Fanless design for silent operation[1]

Green Technology
- Link status detection
- IEEE 802.3az Energy-Efficient Ethernet compliant
- Time-based PoE (PoE models excluding DGS-1100-08PV2)

Advanced Features
- IGMP Snooping
- Bandwidth Control
- IEEE 802.1Q VLAN traffic segregation
- Port-based VLAN
- IEEE 802.1p Quality of Service
- Surveillance VLAN
- Voice VLAN

Management Features
- Client-based utility or web-based GUI
- Built-in SNMP MIB[2]

The DGS-1100 (V2) Series is a range of highly affordable smart-managed switches designed to meet the requirements of small, medium, and enterprise businesses. Advanced management features, bandwidth management, PoE option, diagnostic and troubleshooting tools, and energy-efficient technologies provide a flexible solution to meet your networking requirements.

The DGS-1100 (V2) Series is equipped with advanced security features such as Static MAC, Storm Control, and IGMP Snooping to help businesses protect their network. The switches are also ideal for IP surveillance deployment with the Surveillance VLAN support that gives high priority surveillance traffic to mitigate disruption and guarantee the quality of video recording.

The free-to-download D-Link Network Assistant[1] makes initial setup quick and easy by discovering all D-Link smart-managed switches within the same Layer 2 network. It allows you to resolve IP conflicts, batch configure and update multiple switches. The web-based configuration enables network administrators to manage the switch down to the port level.

D-Link Assist
Next Business Day Service

Your network is the backbone of your business. Keeping it running is essential, even if the unexpected happens. D-Link Assist is a rapid-response technical support service that replaces faulty equipment quickly and efficiently. Maximising your uptime and giving you the confidence that instant support is only a phone call away.

All D-Link products with 5-year or Limited Lifetime warranty come with complimentary Next Business Day Service. D-Link will send out a replacement product to you on the next business day after acceptance of a product failure. On receipt of the replacement product, you simply arrange the return of the defective product to us. Any products with a 2-year/3-year warranty can also benefit from the Next Business Day advance replacement service when the optional 3-year warranty extension has been purchased.

Find out more at **eu.dlink.com/services**

Technical Specifications

General	DGS-1100-05V2	DGS-1100-05PDV2	DGS-1100-08V2	DGS-1100-08PV2
Size	• Desktop			
Number of Ports	• 5 x 10/100/1000 Mbps	• 2 x 10/100/1000 Mbps (PoE) • 3 x 10/100/1000 Mbps	• 8 x 10/100/1000 Mbps	• 8 x 10/100/1000 Mbps (PoE)
Port Functions	• IEEE 802.3 for Ethernet • IEEE 802.3u for Fast Ethernet • IEEE 802.3ab for Gigabit Ethernet • IEEE 802.3af (for DGS-1100-05PD) • IEEE 802.3at (for DGS-1100-08P) • Auto-negotiation		• Supports half/full-duplex operation (half at 10/100 Mbps, full at 1000 Mbps) • Auto MDI/MDIX • IEEE 802.3x Flow Control supports full-duplex mode • IEEE 802.3az compliant	

Performance				
Switching Capacity	• 10 Gbps	• 10 Gbps	• 16 Gbps	• 16 Gbps
Maximum Forwarding Rate	• 7.44 Mpps	• 7.44 Mpps	• 11.9 Mpps	• 11.9 Mpps
MAC Address Table Size	• 2K entries	• 2K entries	• 4K entries	• 4K entries
Packet Buffer	• 1 Mbits	• 1 Mbits	• 1.5 Mbits	• 1.5 Mbits
Flash Memory	• 2 Mbytes			

PoE				
PoE Standard	-	• IEEE 802.3af	-	• IEEE 802.3af/802.3at
PoE Capable Ports	-	• Ports 1 to 2	-	• Ports 1 to 8

PoE Power Budget	-	• PoE Passthrough:
		  • 18 W with 802.3at input
		  • 8 W with 802.3af input
			-	• 64 W
				• 30W per PoE port max

Power Consumption				
Standby Mode	• 1.39 W	• 1.728 W	• 1.93 W	• 2.0 W
Maximum Power Consumption	• 3.42 W	• 24.08 W (PoE on) • 3.24 W (PoE off)	• 4.94 W	• 77.9 W (PoE on) • 4.6 W (PoE off)

Physical				
Power Input	• 100 to 240 V AC, 50 to 60 Hz external power adapter	• 802.3af/at PoE power only via PD port 5 • No power supply	• 100 to 240 V AC, 50 to 60 Hz external power adapter	• 100 to 240 V AC, 50 to 60 Hz external power adapter
MTBF	• 1,562,055 hours	• 2,357,475 hours	• 1,456,992 hours	• 786,841 hours
Acoustics	• 0 dB(A)			
Heat Dissipation	• 11.67 BTU/hr	• N/A	• 16.85 BTU/hr	• 265.85 BTU/hr
Weight	• 0.23 kg	• 0.38 kg	• 0.34 kg	• 0.43 kg
Dimensions	• 100.5 x 82 x 28 mm	• 150 x 97 x 28 mm	• 145 x 82 x 28 mm	• 171 x 97.8 x 28.6 mm
Ventilation	• Fanless			
Operating Temperature	• 0 to 40 °C (32 to 104 °F)			
Storage Temperature	• -40 to 70 °C (-40 to 158 °F)			
Operating Humidity	• 0% to 90% RH, non-condensing			
Storage Humidity	• 0% to 95% RH, non-condensing			
EMI	• FCC Class B, CE Class B, VCCI Class B, BSMI			
Safety	• cUL, CE LVD, CB, BSMI			

Technical Specifications

General	DGS-1100-16V2	DGS-1100-24V2	DGS-1100-24PV2
Size	• 11-inch desktop (rackmount kit included), 1U height		
Number of Ports	• 16 x 10/100/1000 Mbps	• 24 x 10/100/1000 Mbps	• 12 x 10/100/1000 Mbps (PoE) • 12 x 10/100/1000 Mbps
Port Functions	• IEEE 802.3 for Ethernet • IEEE 802.3u for Fast Ethernet • IEEE 802.3ab for Gigabit Ethernet • IEEE 802.3z for Gigabit fiber • IEEE 802.3af/at (DGS-1100-24PV2 ports 1 to 12 only) • IEEE 802.3az compliant	• Auto-negotiation • Auto MDI/MDIX • IEEE 802.3x Flow Control supports full-duplex mode • Supports half/full-duplex operation (full/half at 10/100 Mbps, full at 1000 Mbps)	

Performance

Performance	DGS-1100-16V2	DGS-1100-24V2	DGS-1100-24PV2
Switching Capacity	• 32 Gbps	• 48 Gbps	• 48 Gbps
Maximum Forwarding Rate	• 23.81 Mpps	• 35.71 Mpps	• 35.71 Mpps
MAC Address Table Size	• 8K Entries		
Packet Buffer	• 4.1 Mbits		
Flash Memory	• 16 Mbytes		

PoE

PoE	DGS-1100-16V2	DGS-1100-24V2	DGS-1100-24PV2
PoE Standard	-	-	• IEEE 802.3af/802.3at
PoE Capable Ports	-	-	• Ports 1 to 12
PoE Power Budget	-	-	• 100 W (30 W max. per PoE port)

Power Consumption

Power Consumption	DGS-1100-16V2	DGS-1100-24V2	DGS-1100-24PV2
Standby Mode	• 3.4 W	• 4.5 W	• 8.8 W
Maximum Power Consumption	• 10.1 W	• 15.9 W	• 131.5 W (PoE on) • 19.5 W (PoE off)

Physical

Physical	DGS-1100-16V2	DGS-1100-24V2	DGS-1100-24PV2
Power Input	• 100 to 240 V AC, 50 to 60 Hz internal power supply		
MTBF	• 710,519 hours	• 424,762 hours	• 255,003 hours
Acoustics	• 0 dB(A)		
Heat Dissipation	• 34.46 BTU/hr	• 54.3 BTU/hr	• 107.5 BTU/hr
Weight	• 1.21 kg	• 1.32 kg	• 2.00 kg
Dimensions	• 280 x 180 x 44 mm	• 280 x 180 x 44 mm	• 280 x 230 x 44 mm
Ventilation	• Fanless		
Operating Temperature	• -5 to 50 °C (23 to 122 °F)		
Storage Temperature	• -40 to 70 °C (-40 to 158 °F)		
Operating Humidity	• 0% to 95% non-condensing		
Storage Humidity	• 0% to 95% non-condensing		
EMI	• FCC Class A, CE Class A, VCCI Class A, C-Tick, BSMI, CCC		
Safety	• cUL, CE LVD, CB, BSMI, CCC		

Technical Specifications

General	DGS-1100-10MPV2	DGS-1100-26MPV2
Size	• 11-inch desktop (rack mount included), 1U height	
Number of Ports	• 8 x 10/100/1000 Mbps (PoE) • 2 x 100/1000 Mbps SFP	• 24 x 10/100/1000 Mbps (PoE) • 2 x Combo GE/SFP
Port Functions	• IEEE 802.3 for Ethernet • IEEE 802.3u for Fast Ethernet • IEEE 802.3ab for Gigabit Ethernet • IEEE 802.3af/at/bt • IEEE 802.3az compliant	• Auto-negotiation • Auto MDI/MDIX • IEEE 802.3x Flow Control supports full-duplex mode • Supports half/full-duplex operation (full/half at 10/100 Mbps, full at 1000 Mbps)

Performance

Switching Capacity	• 20 Gbps	• 52 Gbps
Maximum Forwarding Rate	• 14.88 Mpps	• 38.69 Mpps
MAC Address Table Size	• 8K Entries	
Packet Buffer	• 4.1 Mbits	
Flash Memory	• 16 Mbytes	

PoE

PoE Standard	• IEEE 802.3af/ 802.3at	• IEEE 802.3af/ 802.3at
PoE Capable Ports	• Ports 1 to 8	• Ports 1 to 24
PoE Power Budget	• 130 W	• 370 W

Power Consumption

Standby Mode	• 5.6 W	• 15.2 W
Maximum Power Consumption	• 164.6 W (PoE on) • 11.7 W (PoE off)	• 454.1 W (PoE on) • 26.5 W (PoE off)

Physical

Power Input	• 100 to 240 V AC • 50 to 60 Hz Internal Power Supply	
MTBF	• 406,887 hours	• 317,777 hours
Acoustics	• 37 dB(A) (high speed) • 36.2 dB(A) (low speed)	• 50.5 dB(A) (high speed) • 35.2 dB(A) (low speed)
Heat Dissipation	• 118.1 BTU/hr	• 287.0 BTU/hr
Weight	• 1.5 kg	• 2.8 kg
Dimensions	• 280 x 180 x 44 mm	• 440 x 208 x 44 mm
Ventilation	• Smart Fan	
Operating Temperature	• -10 to 50 °C (14 to 122 °F)	
Storage Temperature	• -40 to 70 °C (-40 to 158 °F)	
Operating Humidity	• 0% to 95% non-condensing	
Storage Humidity	• 0% to 95% non-condensing	
EMI	• FCC Class A, CE Class A, VCCI Class A, C-Tick, BSMI	
Safety	• cUL, UL, LVD, CB, BSMI	

Software Features (DGS-1100-05V2/05PDV2/08V2/08PV2)		
VLAN	• Port-based VLAN • 802.1Q tagged VLAN • Surveillance VLAN • Voice VLAN • Management VLAN	• VLAN Group • Supports 32 static VLAN groups • Max. 4094 VIDs • Asymmetric VLAN
L2 Features	• Flow Control • 802.3x Flow Control • HOL Blocking Prevention • Jumbo frames up to 9216 bytes • IGMP Snooping • IGMP v1/v2 Snooping • Supports 128 Groups • Static Trunk • DGS-1100-05V2/05PDV2: 1 group • DGS-1100-08V2/08PV2: 2 groups	• Loopback Detection • Cable diagnostics • Port mirroring • One-to-One • Many-to-One • Statistics • Tx Ok • Tx Error • Rx Ok • Rx Error
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 8 Kb/s) • DSCP
Security	• Static MAC addresses • Up to 32 entries • Traffic segmentation	• Broadcast/Multicast/Unknown Unicast Storm Control • Port security
Management	• Web-based GUI (Supports IPv4)	• D-Link Network Assistant (DNA)
Green Technology	• Compliant with RoHS 10	• Compliant with IEEE 802.3az Energy Efficient Ethernet (EEE)
RFC Standard List	• RFC768 UDP • RFC791 IP • RFC792 ICMP • RFC793 TCP • RFC826 ARP	• IEEE 802.1p • RFC2236, IGMP Snooping • RFC1213 MIBII • RFC1215 MIB Traps Convention

Software Features (DGS-1100-16V2/24V2/24PV2/10MPV2/26MPV2)

VLAN	• Port-based VLAN
	• 802.1Q tagged VLAN
	• Auto Surveillance VLAN
	• Voice VLAN
	• Management VLAN
		• Asymmetric VLAN
		• VLAN Group
		  • Supports 128 static VLAN groups
		  • Max. 4094 VIDs

L2 Features	• Flow Control
	  • 802.3x Flow Control
	  • HOL Blocking Prevention
	• Jumbo frames up to 10,000 Bytes
	• IGMP Snooping
	  • IGMP Snooping V1/V2/V3 awareness
	  • Supports 128 Groups
	  • IGMP Snooping Querier
	• 802.3ad Link Aggregation:
	  • Support max 8 groups per device and 8 ports per group
	• Loopback Detection
	• Cable diagnostics
		• LLDP
		• Port Mirroring
		  • One-to-One
		  • Many-to-One
		• Statistics
		  • Tx Ok
		  • Tx Error
		  • Rx Ok
		  • Rx Error
		• Spanning Tree Protocol
		  • 802.1D STP
		  • 802.1w RSTP

Quality of Service (QoS)	• 802.1p Quality of Service
	• 8 queues per port
	• Queue handling
	  • Strict
	  • Weighted Round Robin (WRR)
		• Port-based bandwidth control (rate limiting)
		  • Ingress: 16 Kbps
		  • Egress: 16 Kbps

Security	• D-Link Safeguard • Traffic segmentation • Broadcast/Multicast/Unknown Unicast Storm Control	• DoS attack prevention • SSL
Management	• Web-based GUI (supports IPv4/IPv6)	• Client-based D-Link Network Assistant (DNA)
Green Technology	• Power saving by • Link status, LED shut-off, Port shut-off, System hibernation	• Compliant with IEEE 802.3az Energy Efficient Ethernet (EEE) • Compliant with RoHS 10
MIB/RFC Standards	• RFC768 UDP • RFC791 IP • RFC792 ICMP • RFC793 TCP • RFC826 ARP • RFC1213 MIB II • RFC1493 Bridage MIB • RFC1907 SNMPv2 MIB • RFC1215 MIB Traps Convention	• RFC2233 Interface Group MIB • RFC2665 Ether-like MIB • RFC4363 IEEE 802.1p MIB • ZoneDefense MIB • Private MIB • RFC951 BootP client • RFC1542 BootP/DHCP client • RFC2236 IGMP Snooping

Optional SFP Transceivers

DEM-211	100BASE-FX, multi-mode, 2 km
DGS-712	1000BASE-T copper, 100 m
DEM-310GT	1000BASE-LX, single-mode, 10 km
DEM-311GT	1000BASE-SX, multi-mode, 550 m
DEM-312GT2	1000BASE-SX, multi-mode, 2 km

[1] Supported by the DGS-1100-05V2/08V2/08PV2/05PDV2/16V2/24V2/24PV2.
[2] Supported by the DGS-1100-16V2/24V2/24PV2/10MPV2/26MPV2.

For more information: www.dlink.com

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