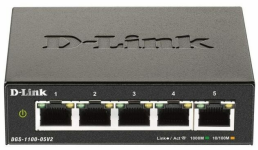
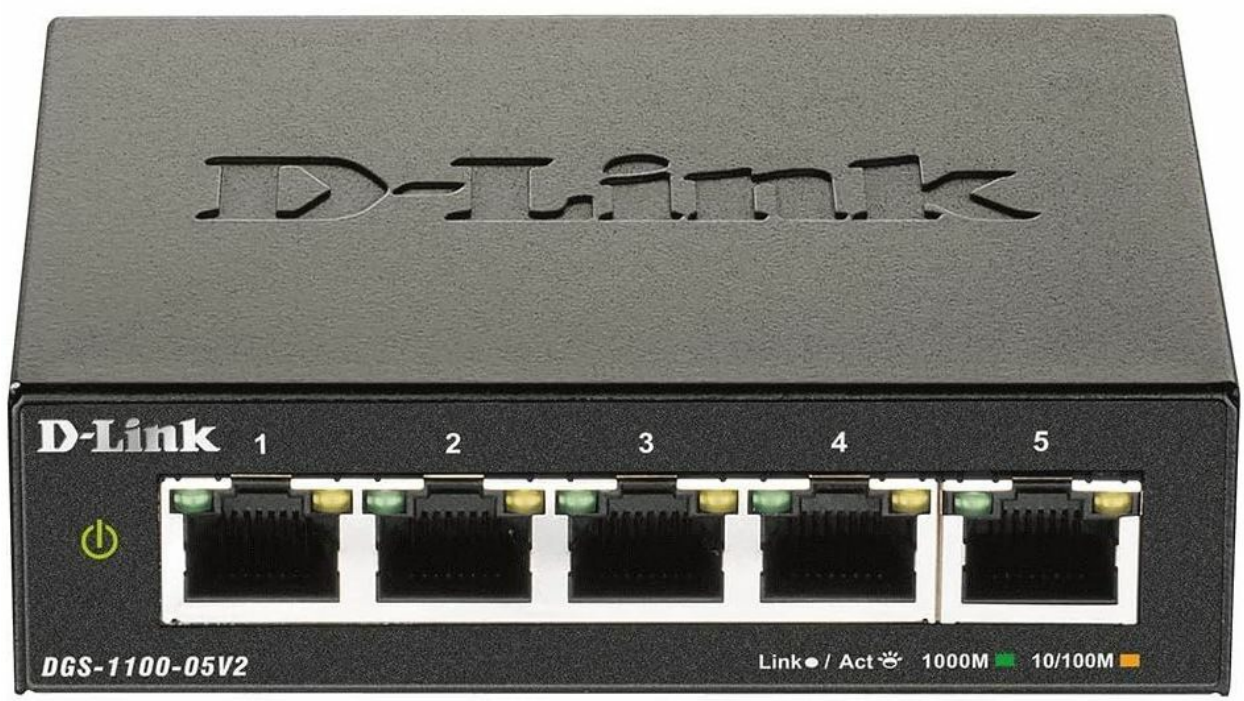


D-Link DGS-1100-05V2 Smart Managed Ethernet Switch Specifications And Datasheet

Contents

D-Link DGS-1100-05V2 Smart Managed Ethernet Switch



Introduction

The DGS-1100 Series is a range of switches designed to meet the requirements of small, medium, and enterprise businesses. Support for multiple PoE standards make the DGS-1100 Series ideal for IP surveillance deployments. Advanced management features, a range of diagnostic and troubleshooting tools, and energy-efficient technologies provide a flexible solution to meet your networking requirements.

D-Link Green/Power Saving Performance
Compliant with IEEE 802.3az Energy Efficient Ethernet (EEE), the DGS-1100 Series consumes less energy by cutting down on power consumption when port utilization is low. By deploying compatible devices, users can cut operating costs and even cut down on additional cooling equipment, helping small and medium-sized businesses stay within their budgets. The DGS-1100 Series also features D-Link Green technology that helps save energy automatically. The switches monitor the link status of every port and significantly reduce the power consumption of the interface when there is no link or network traffic detected.

Easy to Deploy

The DGS-1100 Series supports an intuitive client-based utility (D-Link Network Assistant) and a web-based management interface. The client-based D-Link Network Assistant (DNA) discovers all D-Link Smart Managed Switches within the same Layer 2 network segment, making the initial setup quick and easy. This allows extensive switch configuration and basic administration of discovered devices, including password changes and firmware upgrades. The web-based interface provides a user-friendly way for network administrators to manage the switch down to the port level. The interface can be accessed from a web browser, allowing the switches to be controlled from any PC that is connected to the network.

Highlights

- **Gigabit Ethernet Speed**
  High-speed ports provide the latest Ethernet technology while retaining backward compatibility for connections to older computers and equipment
- **Revolutionary Energy Efficiency**
  Innovative D-Link Green features help conserve energy without sacrificing performance so you can reduce operating costs and protect the environment

- **Smart and Flexible Management**
  Powerful switch management functions can be performed through the web management interface or through the client-based utility

Features

Physical

- Available in multiple configurations, with or without PoE and fiber support
- Fanless design for silent operation

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 MIB1

Advanced Features
The 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 that could flood the network when the defined threshold is exceeded. IGMP Snooping is able to reduce the load of L3 multicast routers and save bandwidth in network throughput.

Surveillance VLAN and Bandwidth Control
The DGS-1100 Series supports Surveillance VLAN for IP surveillance deployments. This gives video traffic a dedicated VLAN and higher priority through the switch, separating surveillance traffic from the rest of the network. This ensures security and guarantees the quality of the video traffic, sparing businesses the added cost of dedicated surveillance hardware. Bandwidth Control can reserve bandwidth on a per-port basis for important functions that require larger bandwidth or have higher 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 shuts down the affected port. Cable Diagnostics helps network administrators quickly examine the quality of the copper cables, recognize the cable type, and detect cable errors.

PoE Support

The DGS-1100 Series P Model provides Power over Ethernet (PoE) support, reducing deployment time for IP cameras, VoIP phones, and access points. Dedicated power adapters are no longer required, as the DGS-1100-08PV2/24PV2 comply with IEEE 802.3af and 802.3at PoE standards and provide up to 30 watts per port. Additionally, the DGS-1100-05PD can be powered by a PoE switch or injector, allowing for more flexible installation in remote areas with no available power outlets.

Lifetime Warranty

D-Link offers a Lifetime Warranty and Next Business Day (NBD) hardware replacement for the DGS-1100 Series Smart Managed Switches to further its commitment to product quality and long-term customer confidence.

Specifications

Technical Specifications				
General	DGS-1100-05V2	DGS-1100-05PDV2	DGS-1100-08V2	DGS-1100-08PV2
Hardware Version	• A1			
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 (0.51 lbs)	• 0.38 kg (0.84 lbs)	• 0.34 kg (0.75 lbs)	• 0.43 kg (0.95 lbs)

Dimensions	• 100.5 x 82 x 28 mm (3.6 x 3.3 x 1.1 inches)	• 150 x 97 x 28 mm (5.9 x 3.8 x 1.1 inches)	• 145 x 82 x 28 mm (5.7 x 3.3 x 1.1 inches)	• 171 x 97.8 x 28.6 mm (6.7 x 3.9 x 1.1 inches)

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

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

Warranty Information	
Warranty	Lifetime Warranty2
Order Information	
Part Number	*Description*
DGS-1100-05V2	5 x 10/100/1000 Mbps ports
DGS-1100-05PDV2	2x 10/100/1000 Mbps PoE ports + 3 x 10/100/1000 Mbps ports with port 5 as PD port
DGS-1100-08V2	8 x 10/100/1000 Mbps ports
DGS-1100-08PV2	8 x 10/100/1000 Mbps PoE ports
DGS-1100-16V2	16 x 10/100/1000 Mbps ports
DGS-1100-24V2	24 x 10/100/1000 Mbps ports
DGS-1100-24PV2	12 x 10/100/1000 Mbps PoE ports + 12 x 10/100/1000 Mbps ports

1. Supported by the DGS-1100-16V2/24V2/24PV2.
2. Lifetime warranty is available in the USA only. The warranty is void when not purchased from an authorized US D-Link reseller. Please visit us.dlink.com for a list of authorized US resellers.

   Updated 05/18/2020

For more information

U.S.A. | 17595 Mt. Herrmann Street | Fountain Valley, CA 92708 | 800.326.1688 | **dlink.com**

FAQ’s

What is the D-Link DGS-1100-05V2 Smart Managed Ethernet Switch?

The D-Link DGS-1100-05V2 is a 5-port Smart Managed Ethernet switch designed to provide advanced features for optimizing network performance in small to medium-sized business environments.

What are the port speeds of the DGS-1100-05V2?

The DGS-1100-05V2 features five Ethernet ports, all of which support Gigabit Ethernet speeds (10/100/1000 Mbps).

Does the DGS-1100-05V2 support Jumbo Frames?

Yes, the DGS-1100-05V2 supports Jumbo Frames, allowing you to increase the frame size up to 9216 bytes for more efficient data transmission.

How can I manage the DGS-1100-05V2 Smart Managed Switch?

You can manage the DGS-1100-05V2 using its web-based graphical user interface (GUI), which provides an easy-to-use platform for configuration and monitoring.

Does the DGS-1100-05V2 support VLANs (Virtual LANs)?

Yes, the DGS-1100-05V2 supports VLANs, including 802.1Q VLAN tagging and port-based VLANs, allowing you to create separate logical networks for enhanced security and traffic management.

Can I prioritize specific traffic using Quality of Service (QoS) on this switch?

Yes, the DGS-1100-05V2 supports Quality of Service (QoS) features, enabling you to prioritize certain types of network traffic based on 802.1p priority tags and DSCP-based QoS.

Is Link Aggregation (LAG/LACP) supported by the DGS-1100-05V2?

Yes, the DGS-1100-05V2 supports Link Aggregation, both static and dynamic (LACP), which allows you to combine multiple ports for increased bandwidth and redundancy.

What security features does the DGS-1100-05V2 offer?

The DGS-1100-05V2 includes security features such as Access Control Lists (ACL), D-Link Safeguard Engine, and Port Security to enhance network security and prevent unauthorized access.

Does the DGS-1100-05V2 support IGMP Snooping?

Yes, the DGS-1100-05V2 supports IGMP Snooping, which optimizes multicast traffic by forwarding multicast packets only to interested recipients.

Is Energy-Efficient Ethernet (EEE) supported on the DGS-1100-05V2?

Yes, the DGS-1100-05V2 supports Energy-Efficient Ethernet (IEEE 802.3az), reducing power consumption during periods of low network activity.

What is the switching capacity of the DGS-1100-05V2 Smart Managed Switch?

The DGS-1100-05V2 has a switching capacity of 10 Gbps, ensuring high-speed data transmission between connected devices.

Can the DGS-1100-05V2 be wall-mounted?

Yes, the DGS-1100-05V2 is designed for both desktop and wall mounting, offering flexibility in installation options.

References: [D-Link DGS-1100-05V2 Smart Managed Ethernet Switch – Device.report]