

Product Highlights

High Speed Networking

Five or eight Gigabit Ethernet ports allow fast file transfers and maximize network bandwidth

Quality of Service

Layer 2 Quality of Service (QoS) provides traffic prioritization on the local network ensuring smooth VoIP calls and responsive applications

Built to Last

Rugged metal housing and Limited Lifetime Warranty

Environmentally Friendly

IEEE 802.3az Energy-Efficient-Ethernet (EEE) reduces power consumption when ports are not in use, conserving energy and lowering costs



DGS-105 and DGS-108

5-Port and 8-Port Gigabit Unmanaged Switches

Features

Fast Connectivity

- Five (DGS-105) or eight (DGS-108) Gigabit LAN ports for high-speed wired connections
- Plug-and-play installation for convenience
- Cable diagnostics notifies users of cable conditions through diagnostic LEDs

Multicast Features

- L2 multicast functions including IGMP snooping optimize multicast data streams for bandwidth intensive applications like IPTV

Green Ethernet Features

- Reduces power on a port when no link is detected
- Adjusts power on a port by detecting the length of the connected cable

Eco-Friendly Design

- Energy Star compliant
- RoHS compliant

Overview

The 5-Port DGS-105 and 8-Port DGS-108 Gigabit Unmanaged Switches are ideally suited for Small Office Home Office (SOHO), Small Medium Business (SMB), and Small Medium Enterprise (SME) environments. With a durable design, silent operation, and plug-and-play functionality, the DGS-105/108 switches can be easily set up and be placed in almost any location where network connectivity is required. Support for IEEE 802.3az Energy-Efficient Ethernet (EEE), Layer 2 Quality of Service (QoS), and Gigabit Ethernet connection speeds provide advanced features in a compact package.

Integrated Networking

The DGS-105/108 switches use auto-sensing 10/100/1000 Mbps ports, allowing a small workgroup to flexibly connect Ethernet, Fast Ethernet, and Gigabit devices to create an integrated network. These ports detect the network speed and auto-negotiate between 10BASE-T and 100BASE-TX at full and half-duplex, and 1000BASE-TX at full duplex, allowing the maximum speeds possible for each device connected to the network.

Simplified Installation

All of the ports on the DGS-105/108 switches support automatic MDI/MDIX crossover, eliminating the need for crossover cables or uplink ports. Each port can be plugged in directly to a server, hub, router, or switch using regular straight-through twisted-pair Ethernet cables. In addition, the DGS-105/108 switches feature multiple front, easy-to-access Ethernet ports with two color LED indicators per port to easily distinguish link status.

Green Technology

The DGS-105/108 switches feature green technology, including IEEE 802.3az Energy-Efficient Ethernet (EEE), link status detection, and cable length detection. Energy-Efficient Ethernet reduces power consumption of the switch when network utilization is low, reducing the cost of ownership during periods of inactivity. Link status detection automatically powers down ports when there is no link detected, saving power when the connected device has been shut down or disconnected. Cable length detection automatically adjusts the power output of the port based on the length of the cable, reducing the power requirements of the switch to only what is necessary for the installation.

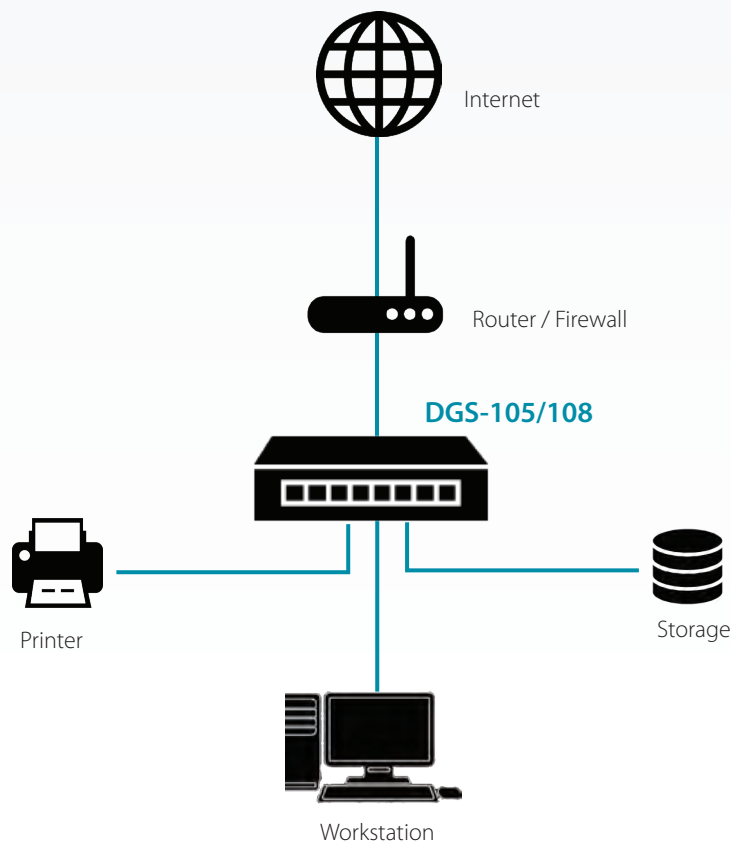
Traffic Management



The DGS-105/108 switches include traffic management features, such as IEEE 802.1p Quality of Service (QoS) and IEEE 802.3x Flow Control. The 802.1p QoS feature allows traffic to be classified in 8 priority levels, allowing different types of traffic to be prioritized, depending on their importance. Flow Control signals to clients when the switch's input buffer is full, helping to minimize dropped packets and providing a more reliable connection for all connected devices.

Limited Lifetime Warranty

D-Link offers a Limited Lifetime Warranty on the DGS-105 and DGS-108 Unmanaged Gigabit Switches to further its commitment to product quality and long-term customer confidence.¹

Example Network Topology



| Technical Specifications | | |
|-----------------------------------|---|---|
| |  |  |
| General | DGS-105 | DGS-108 |
| Hardware Version | Rev. C6 | Rev. C6 |
| 10/100/1000 Ports | 5 | 8 |
| Port Standards & Functions | IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3x Flow Control IEEE 802.1p QoS IEEE 802.3az Energy-Efficient Ethernet (EEE) | IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3x Flow Control IEEE 802.1p QoS IEEE 802.3az Energy-Efficient Ethernet (EEE) |
| Media Interface Exchange | Auto MDI/MDIX adjustment for all twisted-pair ports | Auto MDI/MDIX adjustment for all twisted-pair ports |
| Performance | DGS-105 | DGS-108 |
| Switching Capacity | 10 Gbps | 16 Gbps |
| Transmission Method | Store-and-forward | Store-and-forward |
| Data Transfer Rates | Ethernet: • 10 Mbps (half-duplex) • 20 Mbps (full-duplex) Fast Ethernet: • 100 Mbps (half-duplex) • 200 Mbps (full-duplex) Gigabit Ethernet: • 2000 Mbps (full-duplex) | Ethernet: • 10 Mbps (half-duplex) • 20 Mbps (full-duplex) Fast Ethernet: • 100 Mbps (half-duplex) • 200 Mbps (full-duplex) Gigabit Ethernet: • 2000 Mbps (full-duplex) |
| Packet Filtering/Forwarding Rates | Ethernet: 14,880 pps per port Fast Ethernet: 148,800 pps per port Gigabit Ethernet: 1,488,000 pps per port | Ethernet: 14,880 pps per port Fast Ethernet: 148,800 pps per port Gigabit Ethernet: 1,488,000 pps per port |
| MAC Address Table | 2K entries | 4K entries |
| MAC Address Learning | Automatic update | Automatic update |
| RAM Buffer | 128 KB | 192 KB |
| Jumbo Frames | 9,216 Bytes | 9,216 Bytes |
| LEDs | DGS-105 | DGS-108 |
| Power (per unit) | Yes | Yes |
| Link/Activity/Speed (per port) | Yes | Yes |
| Physical & Environmental | DGS-105 | DGS-108 |
| Dimensions (W x D x H) | 3.93" x 3.86" x 1.10" (100 x 98 x 28 mm) | 6.38" x 4.02" x 1.10" (162 x 102 x 28 mm) |
| Weight | 0.59 lbs (267 g) | 0.92 lbs (415g) |
| Power Input | 5V / 1A (AC/DC power adapter included) | 5V / 1A (AC/DC power adapter included) |
| Power Consumption | Powered on (standby): • DC input: 0.3 W • AC input: 0.3 W Maximum: • DC input: 1.85 W • AC input: 3.10 W | Powered on (standby): • DC input: 0.4 W • AC input: 0.4 W Maximum: • DC input: 3.05 W • AC input: 4.62 W |

DGS-105 and DGS-108

5-Port and 8-Port Unmanaged Gigabit Switches

| | | |
|-----------------------------|--|--|
| Temperature | Operating: 32°F to 104°F (0°C to 45°C) Storage: 14°F to 158°F (-10°C to 70°C) | Operating: 32°F to 104°F (0°C to 45°C) Storage: 14°F to 158°F (-10°C to 70°C) |
| Humidity | Operating: 0% to 95% non-condensing Storage: 0% to 95% non-condensing | Operating: 0% to 95% non-condensing Storage: 0% to 95% non-condensing |
| MTBF | 604,194 hours | 621,163 hours |
| Heat Dissipation | Maximum: 6.31 BTU/h | Maximum: 10.40 BTU/h |
| Certifications | DGS-105 | DGS-108 |
| Safety | cUL / CB / LVD / CCC / BSMI | cUL / CB / LVD / CCC / BSMI |
| EMI/EMC | FCC Class B / CE Class B / ICES-003 Class B / RCM / CCC / BSMI | FCC Class B / CE Class B / ICES-003 Class B / RCM / CCC / BSMI |
| Ordering Information | | |
| <i>Product</i> | <i>Description</i> | <i>Warranty</i> |
| DGS-105 | 5-Port Gigabit Unmanaged Switch | Limited Lifetime ¹ |
| DGS-108 | 8-Port Gigabit Unmanaged Switch | Limited Lifetime ¹ |

¹ Limited Lifetime Warranty available in U.S.A. only. Warranty void when not purchased from Authorized US D-Link Reseller. Please visit us.dlink.com for list of Authorized US Resellers.

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Hardware Rev C6

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For more information

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