

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.

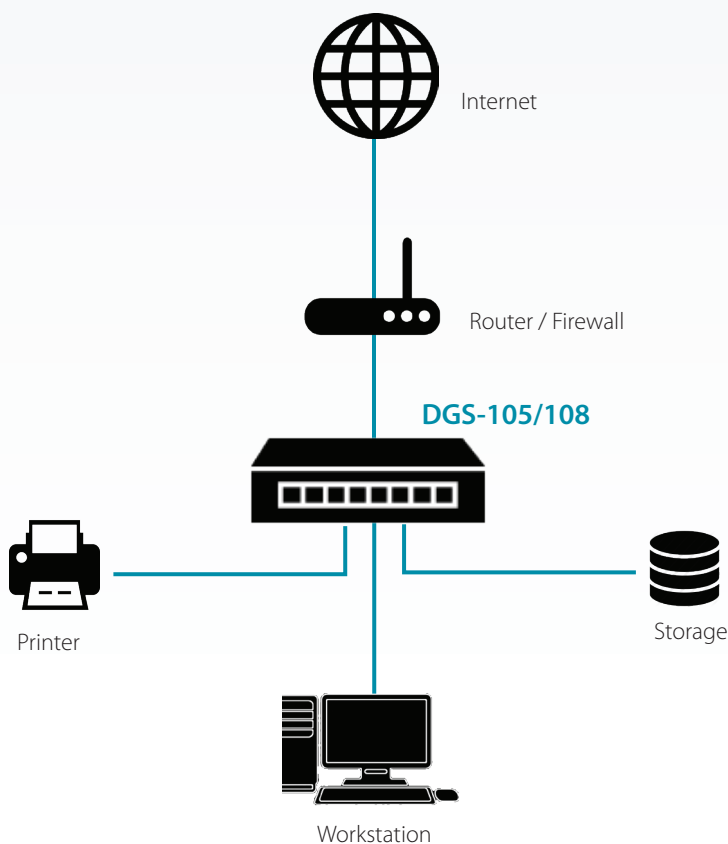
Traffic Management



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.

Updated 08-FEB-2018 (SMO)
Hardware Rev C6

DGS-105-108_REVC6_DATASHEET_4.00_EN_US.PDF

For more information

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

©2018 D-Link Corporation/D-Link Systems, Inc. All rights reserved. D-Link and the D-Link logo are registered trademarks of D-Link Corporation or its subsidiaries in the United States and/or other countries. Other trademarks or registered trademarks are the property of their respective owners.

All references to speed are for comparison purposes only. Product specifications, size and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

Visit us.dlink.com for more details.

