



## Product Highlights

### Eco-Friendly

Innovative design runs quiet, cool, and clean, saving power automatically

### High Speed Networking

Gigabit ports allow you to connect all your devices for fast file transfers and smooth media streaming

### Intelligent Data Streaming

QoS support enables clear VoIP calls



## DGS-105 & DGS-108

# 5/8 Port Unmanaged Gigabit Switch

## Features

- Built-in D-Link Green Technology
- Up to 80% lower power consumption
- Rugged metal housing
- Inexpensive Gigabit solution for small and medium business
- Five/eight 10/100/1000 Mbps Gigabit ports
- 10/16 Gbps switching fabric
- Auto MDI/MDIX crossover for all ports
- Secure store-and-forward switching scheme
- Full/half-duplex for Ethernet/Fast Ethernet speeds
- IEEE 802.3x Flow Control
- Supports Jumbo Frames
- Supports IEEE 802.1p QoS
- Supports Cable Diagnostics Function
- RoHS compliant
- Plug-and-play installation

## Overview

The DGS-105/DGS-108 Gigabit Switch provides a quick, easy and economical way to add high speed networking to home offices and small/medium businesses. With data transfer speeds of up to 2000 Mbps the DGS-105/DGS-108 is ideal for fast file transfers, and smooth media streaming. It provides five or eight Gigabit ports for easy expansion of your network and a quick way to upgrade your network to Gigabit connectivity.

## Effortless Gigabit Networking

With data transfer speeds of up to 2000 Mbps on Gigabit Ethernet, the D-Link DGS-105/DGS-108 5/8 Port Unmanaged Gigabit Switch is ideal for transferring files quickly. Easy access front Ethernet ports with two color LED indicators per port allows you to quickly distinguish link status and speed. The switch supports IEEE 802.1p QoS, which organizes and prioritizes time-sensitive and important data for efficient delivery, allowing for smooth media streaming and VoIP calling. Additionally the switch incorporates a Kensington Security Slot on the rear panel allowing users to securely fasten the unit to a table or desk.

## Gigabit connection for home and SOHO

The DGS-105/DGS-108 5/8-Port Gigabit Switch offers an economical way for SOHO and small/medium businesses to benefit from the increased bandwidth of Gigabit Ethernet. It provides five or eight Gigabit ports for easy expansion of your network and a quick way to upgrade your network to Gigabit connectivity.



# DGS-105 & DGS-108 5/8 Port Unmanaged Gigabit Switch

## Think Green

The DGS-105/DGS-108 is a plug-and-play networking switch that offers D-Link's Green Technology to save energy and reduce heat, which in turn extends product life without sacrificing performance or functionality. The switch supports IEEE 802.3az Energy-Efficient Ethernet (EEE) which detects when a connected computer is shut down or when there is no Ethernet traffic, at which time the switch will automatically power down the idle port, saving a substantial amount of power. In addition, the switch can also save energy by detecting the cable length and using only as much power as necessary. Working together these features drastically reduce power consumption and heat dissipation, resulting in extended life and substantial cost savings.

## IEEE 802.1p QoS

QoS prioritizes network traffic so that time-sensitive data is delivered efficiently, even during bursts of high data traffic. This helps ensure an optimal experience for streaming media and VoIP calls.

## Environmentally Friendly

The DGS-105/DGS-108 Gigabit switch was designed with the environment in mind. It is compliant with Energy Star Level V, CEC, and MEPS regulations which require the use of energy efficient power adapters. Built to comply with RoHS standards to minimize use of hazardous materials and is packaged with an EnergyStar Level V qualified power adapter all in a recyclable packaging making this product truly environmental friendly.

## Cable Diagnostics Function

The D-Link Cable Diagnostics Function enables users to be instantly aware of cable conditions through the LED display on the front-panel. Users can determine whether the pin connections of their cable connectors are correct, facilitating prompt network troubleshooting if required.

## Technical Specifications

	DGS-105	DGS-108
		
Switching Fabric	• 10Gbps	• 16Gbps
Standards	<ul style="list-style-type: none"> <li>• IEEE 802.3 10BASE-T Ethernet (twisted-pair copper)</li> <li>• IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper)</li> <li>• IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted-pair copper)</li> </ul>	<ul style="list-style-type: none"> <li>• ANSI/IEEE 802.3 NWay auto-negotiation</li> <li>• IEEE 802.3x Flow Control</li> <li>• IEEE 802.1p QoS</li> <li>• IEEE 802.3az Energy-Efficient Ethernet (EEE)</li> </ul>
Protocol	• CSMA/CD	
Data Transfer Rates	<ul style="list-style-type: none"> <li>• Ethernet:               <ul style="list-style-type: none"> <li>- 10 Mbps (half duplex), 20 Mbps (full duplex)</li> </ul> </li> <li>• Fast Ethernet:               <ul style="list-style-type: none"> <li>- 100 Mbps (half duplex), 200 Mbps (full duplex)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Gigabit Ethernet:               <ul style="list-style-type: none"> <li>- 2000 Mbps (full duplex)</li> </ul> </li> </ul>
Topology	• Star	



## DGS-105 & DGS-108 5/8 Port Unmanaged Gigabit Switch

Network Cables	<ul style="list-style-type: none"> <li>• 10BASE-T:               <ul style="list-style-type: none"> <li>- UTP CAT 3, 4, 5/5e (100 m max.)</li> <li>- EIA/TIA-586 100-ohm STP (100 m max.)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 100BASE-TX, 1000BASE-T:               <ul style="list-style-type: none"> <li>- UTP CAT 5/5e (100 m max.)</li> <li>- EIA/TIA-568 100-ohm STP (100 m max.)</li> </ul> </li> </ul>
Media Interface Exchange	<ul style="list-style-type: none"> <li>• Auto MDI/MDIX adjustment for all ports</li> </ul>	
LED Indicators	<ul style="list-style-type: none"> <li>• Per port: Link/Activity/Speed</li> </ul>	<ul style="list-style-type: none"> <li>• Per device: Power</li> </ul>
Transmission Method	<ul style="list-style-type: none"> <li>• Store-and-forward</li> </ul>	
MAC Address Table	<ul style="list-style-type: none"> <li>• 2K</li> </ul>	<ul style="list-style-type: none"> <li>• 8K</li> </ul>
MAC Address Learning	<ul style="list-style-type: none"> <li>• Automatic update</li> </ul>	
Packet Filtering/Forwarding Rates	<ul style="list-style-type: none"> <li>• Ethernet: 14,880 pps per port</li> <li>• Fast Ethernet: 148,800 pps per port</li> </ul>	<ul style="list-style-type: none"> <li>• Gigabit Ethernet: 1,488,000 pps per port</li> </ul>
RAM Buffer	<ul style="list-style-type: none"> <li>• 128KB per device</li> </ul>	
Jumbo Frames	<ul style="list-style-type: none"> <li>• 9,000 Bytes</li> </ul>	
QoS	<ul style="list-style-type: none"> <li>• 4 Queues, strict mode</li> </ul>	
<b>General Specifications</b>		
DC Input	<ul style="list-style-type: none"> <li>• External 5 V/1 A Level "V" Power Adapter</li> </ul>	
Power Consumption	<ul style="list-style-type: none"> <li>• Power On (Standby):               <ul style="list-style-type: none"> <li>DC input: 0.5 watts</li> <li>AC input: 1.0 watts</li> </ul> </li> <li>• Maximum:               <ul style="list-style-type: none"> <li>DC input: 2.01 watts</li> <li>AC input: 3.10 watts</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Power On (Standby):               <ul style="list-style-type: none"> <li>DC input: 0.55 watts</li> <li>AC input: 1.0 watts</li> </ul> </li> <li>• Maximum:               <ul style="list-style-type: none"> <li>DC input: 2.8 watts</li> <li>AC input: 4.5 watts</li> </ul> </li> </ul>
Heat Dissipation	<ul style="list-style-type: none"> <li>• Power On (Standby) AC input: 3.41 BTU/h</li> <li>• Maximum DC input: 6.854 BTU/h</li> </ul>	<ul style="list-style-type: none"> <li>• Power On (Standby) AC input: 3.41 BTU/h</li> <li>• Maximum DC input: 9.548 BTU/h</li> </ul>
MTBF	<ul style="list-style-type: none"> <li>• 1,688,338 hours</li> </ul>	<ul style="list-style-type: none"> <li>• 2,053,751 hours</li> </ul>
Operating Temperature	<ul style="list-style-type: none"> <li>• 32 to 130 °F (30 to 50 °C)</li> </ul>	
Storage Temperature	<ul style="list-style-type: none"> <li>• -14 to 158 °F (10 to 70 °C)</li> </ul>	
Operating Humidity	<ul style="list-style-type: none"> <li>• 10% to 90% RH non-condensing</li> </ul>	
Storage Humidity	<ul style="list-style-type: none"> <li>• 5% to 90% RH non-condensing</li> </ul>	
Dimensions	<ul style="list-style-type: none"> <li>• 3.9 x 3.8 x 1.1 inches (100 x 98 x 28 mm)</li> </ul>	<ul style="list-style-type: none"> <li>• 6.3 x 4 x 1.1 inches (162 x 102 x 28 mm)</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• 10.08 ounces (286 grams)</li> </ul>	<ul style="list-style-type: none"> <li>• 15.52 ounces (440 grams)</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>• FCC Class B</li> <li>• ICES-003 Class B</li> <li>• CE Class B</li> <li>• C-Tick Class B</li> </ul>	<ul style="list-style-type: none"> <li>• VCCI Class B</li> <li>• cUL</li> <li>• CB</li> </ul>

# DGS-105 & DGS-108 5/8 Port Unmanaged Gigabit Switch

Warranty	
Warranty	• Limited Lifetime <sup>1</sup>
Order Information	
Part Number	Description
DGS-105	5-Port Unmanaged Gigabit Switch
DGS-108	8-Port Unmanaged Gigabit Switch

<sup>1</sup>Limited Lifetime Warranty available only in the USA and Canada. 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.

Updated 11/4/11

DGS-105



DGS-108



## For more information

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