

## Product Highlights

### High-Speed Networking

Gigabit ports allow you to connect up to five or eight devices for fast file transfers and smooth media streaming

### Intelligent Data Streaming

QoS support enables uninterrupted VoIP calls, smooth online gaming, and quick downloads over the network connection

### Eco-Friendly and Economical

D-Link Green Technology saves energy while using an economical yet innovative design that runs cool and quiet



## DGS-105/108

# 5/8-Port 10/100/1000 Mbps Unmanaged Switch

## 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 Function notifies users of cable conditions through product LEDs

### Green Ethernet Features

- Reduces power to a port when no link to that port is detected
- Adjust power to a port by detecting the length of the connected Ethernet cable

### Eco-friendly Design

- Compliant with Energy Star Level V, CEC, and MEPS regulations
- Compliant with RoHS standards

This 5/8-Port Gigabit Ethernet Switch is designed for the departmental and enterprise connection. Powerful and versatile, it eliminates network bottlenecks while giving users the capability to fine-tune performance. The DGS-105/108 has a special front access design for Ethernet ports/LEDs to for easier control of network status. Also, the metal case design keeps cool, allowing for superior performance. Additionally, the DGS-105/108 complies with IEEE 802.3az Energy-Efficient Ethernet (EEE) standards, making it energy efficient without losing connectivity or functionality.

## Integrated Network

The DGS-105/DGS-108 5/8-port Gigabit Switch uses auto-sensing 10/100/1000 Mbps ports, allowing a small workgroup to flexibly connect to Ethernet and 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 you to get the maximum speed possible for each device connected to your network.

## Simplified Installation

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

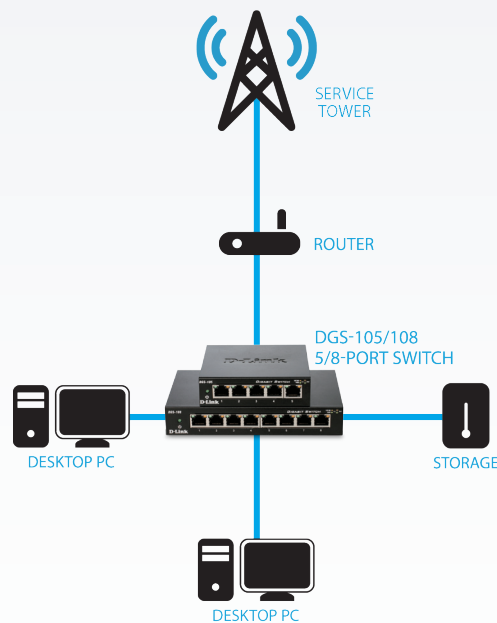
## Flow Control for Secure Transmission

When a port reaches its receiving buffer capacity, the 802.3x flow control feature activates to minimize dropped packets, providing a more reliable connection for all of your connected devices while surfing the web, playing games, or accessing media.

## Think Green

The DGS-105/108 is a plug-and-play networking switch that uses 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, in which the switch will proceed to power down the idle port, saving a substantial amount of power.

### Your Network Setup



## Technical Specifications

### General

Device Interfaces	<ul style="list-style-type: none"> <li>• DGS-105: Five 10/100/1000 Gigabit LAN ports</li> </ul>	<ul style="list-style-type: none"> <li>• DGS-108: Eight 10/100/1000 Gigabit LAN ports</li> </ul>
Standards	<ul style="list-style-type: none"> <li>• IEEE 802.3 10BASE-T</li> <li>• IEEE 802.3u 100BASE-TX</li> <li>• IEEE 802.3x Flow Control</li> </ul>	<ul style="list-style-type: none"> <li>• IEEE 802.3ab 1000BASE-T</li> <li>• IEEE 802.1p QoS</li> <li>• IEEE 802.3az Energy-Efficient Ethernet (EEE)</li> </ul>

### Functionality

Advanced Features	<ul style="list-style-type: none"> <li>• Green Ethernet</li> <li>• 10/16 Gbps switching fabric</li> <li>• Auto MDI/MDIX crossover for all ports</li> <li>• Secure store-and-forward switching scheme</li> <li>• Full/half-duplex for Ethernet/Fast Ethernet speeds</li> <li>• Supports 9,216-Byte jumbo frames</li> <li>• Back pressure at half-duplex operation</li> <li>• Cable diagnostics Function</li> <li>• Wire-speed reception and transmission</li> <li>• Store and-forward switching method</li> </ul>	<ul style="list-style-type: none"> <li>• Auto-negotiation for each port</li> <li>• RoHS compliant.</li> <li>• ErP compliant</li> <li>• EEE compliant</li> <li>• IEEE 802.3 10BASE-T</li> <li>• IEEE 802.3ab 1000BASE-T</li> <li>• IEEE 802.3u 100BASE-TX</li> <li>• IEEE 802.3az EEE</li> <li>• IEEE 802.3x flow control</li> <li>• IEEE 802.1p QoS (4 queues, strict Mode)</li> </ul>
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Protocol	<ul style="list-style-type: none"> <li>• CSMA/CD</li> </ul>
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## 5/8-Port 10/100/1000 Mbps Unmanaged Switch

Data Transfer Rates	<ul style="list-style-type: none"> <li>Ethernet: <ul style="list-style-type: none"> <li>10 Mbps (half duplex)</li> <li>20 Mbps (full duplex)</li> </ul> </li> <li>Fast Ethernet: <ul style="list-style-type: none"> <li>100 Mbps (half duplex)</li> <li>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>
Transmission Method	<ul style="list-style-type: none"> <li>Store-and-forward</li> </ul>	
MAC Address Table	<ul style="list-style-type: none"> <li>2 k</li> </ul>	<ul style="list-style-type: none"> <li>8 k</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>DGS-105: 250KB per device</li> </ul>	<ul style="list-style-type: none"> <li>DGS-108: 250KB per device</li> </ul>
<b>Physical</b>		
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>
Media Interface Exchange	<ul style="list-style-type: none"> <li>Auto MDI/MDIX adjustment for all ports</li> </ul>	
Dimensions	<ul style="list-style-type: none"> <li>DGS-105: 100 x 98 x 28 mm (3.93 x 3.86 x 1.10 inches)</li> </ul>	<ul style="list-style-type: none"> <li>DGS-108D: 162 x 102 x 28mm (3.54 x 2.83 x 1.06 inches)</li> </ul>
Weight	<ul style="list-style-type: none"> <li>DGS-105: 267 grams (0.59 lbs)</li> </ul>	<ul style="list-style-type: none"> <li>DGS-108: 415 grams (0.92 lbs)</li> </ul>
Power	<ul style="list-style-type: none"> <li>5V/1A</li> </ul>	<ul style="list-style-type: none"> <li>DC jack: Located at rear panel</li> </ul>
Power Consumption	<p>DGS-105:</p> <ul style="list-style-type: none"> <li>Power On (Standby): <ul style="list-style-type: none"> <li>DC input: 0.2 Watts</li> <li>AC input: 2.75Watts</li> </ul> </li> <li>Maximum: <ul style="list-style-type: none"> <li>DC input: 1.55 Watts</li> <li>AC input: 2.75Watts</li> </ul> </li> </ul>	<p>DGS-108:</p> <ul style="list-style-type: none"> <li>Power On (Standby): <ul style="list-style-type: none"> <li>DC input: 0.45 Watts</li> <li>AC input: 1.14 Watts</li> </ul> </li> <li>Maximum: <ul style="list-style-type: none"> <li>DC input: 2.75 Watts</li> <li>AC input: 4.15 Watts</li> </ul> </li> </ul>
Temperature	<ul style="list-style-type: none"> <li>Operating: 0 to 40 °C (32 to 104 °F)</li> </ul>	<ul style="list-style-type: none"> <li>Storage: -10 to 70 °C (14 to 158 °F)</li> </ul>
Humidity	<ul style="list-style-type: none"> <li>Operating: 10% to 90% non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>Storage: 5% to 90% non-condensing</li> </ul>
MTBF	<ul style="list-style-type: none"> <li>DGS-105: 593,755 hours</li> </ul>	<ul style="list-style-type: none"> <li>DGS-108: 858,090 hours</li> </ul>
Heat Dissipation	<ul style="list-style-type: none"> <li>Power On (Standby) <ul style="list-style-type: none"> <li>DGS-105: AC Input: 2.5234 BTU/h</li> <li>DGS-108: AC Input: 3.8874 BTU/h</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Maximum: <ul style="list-style-type: none"> <li>DGS-105: DC Input: 5.2855 BTU/h</li> <li>DGS-108: AC Input: 14.083 BTU/h</li> </ul> </li> </ul>
Certifications	<ul style="list-style-type: none"> <li>FCC Class B</li> <li>CE Class B</li> <li>C-Tick</li> </ul>	<ul style="list-style-type: none"> <li>CB</li> <li>ICES-003 Class B</li> <li>cUL</li> </ul>
<b>Order Information</b>		
<i>Part Number</i>	<i>Description</i>	
DGS-105/108	5/8-Port 10/100/1000 Mbps Unmanaged Switch	

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