D-Link®
Building Networks for People

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..
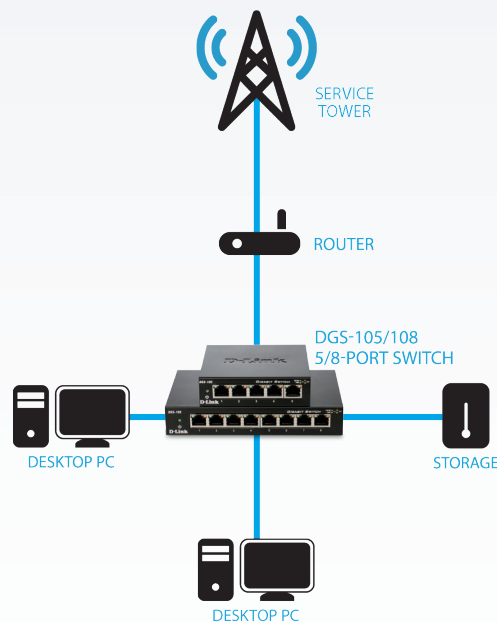
Flow Control for Secure Transmission

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.

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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

SERVICE TOWER

ROUTER

DGS-105/108
5/8-PORT SWITCH

DESKTOP PC

STORAGE

DESKTOP PC

Technical Specifications

General

Device Interfaces	• DGS-105: Five 10/100/1000 Gigabit LAN ports	• DGS-108: Eight 10/100/1000 Gigabit LAN ports
Standards	• IEEE 802.3 10BASE-T • IEEE 802.3u 100BASE-TX • IEEE 802.3x Flow Control	• IEEE 802.3ab 1000BASE-T • IEEE 802.1p QoS • IEEE 802.3az Energy-Efficient Ethernet (EEE)

Functionality

| Advanced Features | • Green Ethernet
• 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
• Supports 9,216-Byte jumbo frames
• Back pressure at half-duplex operation
• Cable diagnostics Function
• Wire-speed reception and transmission
• Store and-forward switching method | • Auto-negotiation for each port
• RoHS compliant.
• ErP compliant
• EEE compliant
• IEEE 802.3 10BASE-T
• IEEE 802.3ab 1000BASE-T
• IEEE 802.3u 100BASE-TX
• IEEE 802.3az EEE
• IEEE 802.3x flow control
• IEEE 802.1p QoS (4 queues, strict Mode) |
| Protocol | • CSMA/CD | |

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)
Transmission Method	• Store-and-forward	
MAC Address Table	• 2 k	• 8 k
MAC Address Learning	• Automatic Update	
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
RAM Buffer	• DGS-105: 250KB per device	• DGS-108: 250KB per device

Physical

LED Indicators	• Per port: Link/Activity/Speed	• Per device: Power
Media Interface Exchange	• Auto MDI/MDIX adjustment for all ports	
Dimensions	• DGS-105: 100 x 98 x 28 mm (3.93 x 3.86 x 1.10 inches)	• DGS-108D: 162 x 102 x 28mm (3.54 x 2.83 x 1.06 inches)
Weight	• DGS-105: 267 grams (0.59 lbs)	• DGS-108: 415 grams (0.92 lbs)
Power	• 5V/1A	• DC jack: Located at rear panel
Power Consumption	DGS-105: • Power On (Standby): • DC input: 0.2 Watts • AC input: 2.75Watts • Maximum: • DC input: 1.55 Watts • AC input: 2.75Watts	DGS-108: • Power On (Standby): • DC input: 0.45 Watts • AC input: 1.14 Watts • Maximum: • DC input: : 2.75 Watts • AC input: 4.15 Watts
Temperature	• Operating: 0 to 40 ℃ (32 to 104 °F)	• Storage: -10 to 70 ℃ (14 to 158 °F)
Humidity	• Operating: 10% to 90% non-condensing	• Storage: 5% to 90% non-condensing
MTBF	• DGS-105: 593,755 hours	• DGS-108: 858,090 hours
Heat Dissipation	• Power On (Standby) • DGS-105: AC Input: 2.5234 BTU/h • DGS-108: AC Input: 3.8874 BTU/h	• Maximum: • DGS-105: DC Input: 5.2855 BTU/h • DGS-108: AC Input: 14.083 BTU/h
Certifications	• FCC Class B • CE Class B • C-Tick	• CB • ICES-003 Class B • cUL

Order Information

Part Number	Description
DGS-105/108	5/8-Port 10/100/1000 Mbps Unmanaged Switch

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