

DGS-105



FEATURES

High-performance Wire-Speed Architecture:

- 10Gbps Switching Capacity
- Jumbo Frames up to 9.6KB
- 802.1P Priority Queuing
- Metal Casing
- Non-blocking / Wire Speed Architecture
- 8K MAC Address Table
- Nway Auto Negotiation
- 802.3x Flow Control Support
- Store and Forward Switching
- No Fan - Quiet Operation
- Wall Mountable / Portable
- Small Footprint

Operational Simplicity:

- True Plug & Play
- Auto Crossover Cable Detection
- Auto Speed and Duplex Mode
- Per Port LED Indicators

Investment Protection:

- Support for Industry Standards
- Free Technical Support
- 5-Year Product Warranty

Layer 2 Switch

Unmanaged 5-Port 10/100/1000BASE-T

The D-Link DGS-105 is a 5-port Gigabit desktop switch for the SMB and enterprise class business seeking a metal housed, Plug-and-Play solution capable of providing reliable connectivity for network users. The DGS-105 delivers power, performance, and reliability in one cost-effective, space-saving design. The metal exterior provides a durable alternative to plastic enclosures. This makes the DGS-105 a perfect solution for installation in locations such as a warehouse, automotive garage, wiring or Telco closet. In addition, the sleek and polished design of the DGS-105 adds a level of sophistication to the SMB and Enterprise network seeking to maintain the look and feel of their network all the way to the desktop.

Switching Features

The DGS-105 supports full duplex operation on all 5 interfaces for up to 2000Mbps per port, and a combined switching capacity of up to 10Gbps. Per-Port color LEDs clearly indicate link status and port speed for quick diagnostic and troubleshooting. It features a non-blocking switching architecture that filters and forwards packets at full wire-speed for maximum throughput. The DGS-105 combines dynamic memory allocation with store-and-forward switching to ensure that the buffer is effectively allocated for each port; and controls the data flow to guarantee against possible packet loss. The DGS-105 is scalable, allowing two or more units to be cascaded together. Additionally, the DGS-105 supports 802.3x Flow Control to minimize dropped packets through the sending out of collision signals when the port's receiving buffer is full, Jumbo Frames support up to 9.6K for reduced network load, and 802.1P priority queuing to aid in the quick and efficient delivery of critical network traffic such as voice and video.

The DGS-105 is compact and portable. With its small footprint, the DGS-105 can fit in almost any location making it the perfect solution for implementations where space is limited. In addition the DGS-105 is wall mountable, providing even more flexibility for mounting under a desk or in a small wiring cabinet. Ambient noise is never a concern with the DGS-105. With no need for cooling fans, the DGS-105 runs quiet and unnoticed, making implementations where low decibel operation is required, simple and worry free.

Easy to Install and Maintain

The auto features of this switch make installation plug and play and hassle-free. No configuring is required. Auto MDI/MDI-X crossover on all ports eliminate the need for crossover cables or uplink ports. Crossover or straight-through CAT5 cables can be plugged into any port. Auto-negotiation on each port senses the link speed of a network device (10, 100 or 1000Mbps) and intelligently adjusts for compatibility and optimal performance providing an automatic and flexible solution for the network.



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Technical Specifications

DGS-105	Unmanaged 5-Port 10/100/1000Mbps Switch
MAC Address Table Size	8K
Switch Fabric	10Gbps Forwarding Capacity
Transmission Method	Store-and-forward
Diagnostic LEDs	Per Unit: Power Per Port: Activity/Link
Packet Buffer Memory	On Chip 112Kbyte Buffer Memory Per Device
Forwarding Rate	10Mbps- 14,880pps/100Mbps- 148,809pps/1000Mbps -1,488,095pps
Address Aging Timer	Automatic Update
Max Power Consumption	4.5 Watts
Power Dissipation	25.234 BTU/Hr
Jumbo Frames	9.6KB
QoS	802.1p (4 Queues)

Interface Options

RJ-45	10BASE-T, 100BASE-TX, 1000BASE-T Universal UTP Cable Recognition for Straight-Through or Crossover Cables (MDI/MDI-X)
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Network Protocols and Standards

IEEE	802.3 Ethernet, 802.3u Fast Ethernet, 802.3ab Gigabit Ethernet, 802.3x Flow Control, 802.1P priority queuing
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Electrical & Emissions Summary

Emissions	FCC Class B, CE Class B, CSA International
Power Supply	AC-DC 7.5V / 1A External

Safety Agency Certifications and Environmental

Temperature	Operating: 0° ~ 40° C (32° to 104° F) Storage: -10° ~ 70° C (14°to 158° F)
Humidity	Operating: 10% ~ 95% RH, Non-condensing Storage: 5% ~ 95% RH, Non-condensing

Physical Specifications

Dimensions (W x D x H)	7.75 x 4.48 x 1.2 in (196.85 x 113.79 x 30.48 mm)
Weight	1.13lbs (.51kg)

Warranty and Support Information

Warranty	5-Years (Excluding Power Supply)
Support	Free Technical Support

Ordering Information

<u>Part Number</u>	<u>Description</u>
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