

Up to
73%
Power Savings¹

High-Performance Wire-Speed Architecture:

- + 48Gbps Switching Capacity
- + Non-blocking Architecture
- + 8K MAC Address Table
- + 802.1p Priority Queuing
- + Jumbo Frame Support (Up to 9600 Bytes)²

Operational Simplicity

- + True Plug-and-Play
- + Auto-negotiation
- + Auto Cable Detection (MDI/MDI-X)
- + Cable Diagnostics Function
- + At-a-Glance Port LED Indicators
- + Desktop/Rackmountable

Investment Protection

- + Support for Industry Standards
- + Limited Lifetime Warranty³

D-Link Green™

- + Automatically Powers Down Ports That Have No Link
- + Budgets Power Output for Different Ethernet Cable Lengths



24-Port Gigabit Desktop/Rackmountable Switch

Overview

Get the blazing speed of Gigabit Ethernet with the D-Link® DGS-1024D, a 24-Port Gigabit Switch that delivers power, performance, and reliability in one cost-effective, space-saving design. Increase the speed of your network server and backbone connection, or make Gigabit to the desktop a reality. Users in the office, workgroup, or creative production environment can now move large, bandwidth-intensive files faster. Transfer graphics, CGI, CAD, or multimedia files across the network without hesitation. The versatile and compact 1RU height design of the DGS-1024D enables the device to be rackmounted in a standard 19-inch rack while conserving valuable rack space.

Power Packed

Featuring non-blocking switching architecture, the DGS-1024D filters and forwards packets at wirespeed for maximum throughput. An 8K MAC address table provides scalability for even the largest networks, while address learning, 802.3x flow control for full-duplex mode, and back pressure flow control for half-duplex mode alleviate traffic congestion and ensure reliable data transmission. Designed using industry standards, the DGS-1024D is compatible with virtually all 10, 100, and 1000Mbps Ethernet devices. It protects your existing network investments while providing you with a straightforward migration path for faster Gigabit speeds.

Easy to Install and Maintain

This switch was designed for Plug-and-Play and hassle-free installation. Auto-MDI/MDI-X crossover on all ports eliminates the need for crossover cables when connecting to another switch or hub. Auto-negotiation on each port senses the link speed of a network device (either 10, 100, or 1000Mbps) and intelligently adjusts for compatibility and optimal performance. It also features diagnostic LEDs that display status and activity, allowing you to quickly detect and correct problems on the network. Every port also supports a cable diagnostic feature that helps to detect cable-related problems.

802.1p Quality of Service

The DGS-1024D supports 802.1p Quality of Service (QoS). When the switch receives a frame tagged with an 802.1p priority, it automatically places it into one of four priority queues. Priority queuing is especially beneficial when streaming voice and video on your network.

Think Green

D-Link Green™ technology implements power-saving features to help make your network environmentally friendly without compromising performance. The DGS-1024D automatically powers down ports that have no link and budgets power output for different Ethernet cable lengths. It also complies with the EU's RoHS directive, restricting the use of certain hazardous materials.



24-Port Gigabit Desktop/Rackmountable Switch

Technical Specifications

Product Specifications

MAC Address Table Size	8K
Switch Fabric	48Gbps Forwarding Capacity
Transmission Method	Store-and-Forward
Diagnostic LEDs	Per Unit: Power
	Per Port: Activity/Link, Speed
Packet Buffer Memory	On ship: 512KBytes Buffer Memory per Device
Max Power Consumption	19.1 Watts
QoS	802.1p (4 Queues)
Acoustics	0db
MTBF	784,286 hours

Interface Options

RJ-45	10/BASE-T, 100BASE-TX, and 1000BASE-T
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Network Protocols & Standards

IEEE	802.3 Ethernet, 802.3u Fast Ethernet, 802.3x Flow Control, 802.3ab Gigabit Ethernet, 802.1p Priority Queuing
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Electrical & Emissions

Emissions	FCC Class A, CE Class A
Power Supply	100-240VAC, 50/60Hz Internal Universal Power
Environmental	RoHS Compliant

Safety and Environmental

Safety	CSA, NRTL/C
Temperature	Operating: 32° to 104°F (0° to 40°C)
	Storage: 14° to 131°F (-10° to 55°C)
Humidity	Operating: 5% ~ 95% RH (Non-condensing)

Physical Specifications

Dimensions (W x D x H)	11.1in x 7.1in x 1.75in (281.9mm x 180.3mm x 44.5mm)
Weight	3.64 lbs (1.65 kg)

Warranty Information

Warranty	Limited Lifetime ³
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Ordering Information

<u>Part Number</u>	<u>Description</u>
DGS-1024D	24-Port Gigabit Switch, Desktop/Rackmountable, D-Link Green

¹ Maximum power savings when compared to a D-Link conventional switch. Uses up to 73% less energy when connected devices are powered down and up to 61% less energy when connected devices are used 10 hours and powered down 14 hours over a 24-hour period, when connected via 3 meter Ethernet cables.

² Jumbo Frame support for 9600 Bytes is applicable in Gigabit mode only. Use of Jumbo Frame feature requires the PC to have a Gigabit NIC that supports Jumbo Frames. Jumbo Frame performance may be affected when used in 10/100 Fast Ethernet mode.

³ Limited Lifetime Warranty available in the USA and Canada only if purchased on or after June 1, 2010. Visit www.dlink.com for warranty details.

D-Link Green features are available on hardware version C1 or later. Specifications contained herein are based on hardware version D1. 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.
Hardware v. D1