Up to
45%
Power Savings[1]

green ethernet™

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 per Port LED Indicators
+ Rack Mountable or Desktop Friendly

Investment Protection

+ Support for Industry Standards
+ 5-Year Limited Warranty[3]

Green Ethernet

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

24-Port Gigabit Switch, Rackmount/Desktop

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 wire-speed 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
The auto feature of this switch makes installation Plug-and-Play and hassle-free. Auto-MDI/MDX-X crossover on all ports eliminates the need for crossover cables for connection 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, which 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. 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 useful in implementations where time sensitive data such as voice and video are streamed across the network.

Think Green
D-Link Green Ethernet 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 Switch, Rackmount/Desktop

Technical Specifications

Product/Performance 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: 500KB Buffer Memory per Device
Max Power Consumption	26.7 Watts
QoS	802.1p (4 Queues)

Interface Options

RJ-45	10/BASE-T, 100BASE-TX, and 1000BASE-T

Network Protocols & Standards

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

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)	11.0in x 7.1in x 1.7in (280mm x 180mm x 44mm)
Weight	4.0lbs (1.8Kg)

Warranty & Support Information

Warranty	5-Year Limited[3]

Ordering Information

Part Number	Description
DGS-1024D	24-Port Gigabit Switch, Rackmount/Desktop

[1] Maximum power savings when compared to a D-Link conventional switch. Uses up to 45% less energy when connected devices are powered down and up to 25% less energy when connected devices are used 10 hours and powered down 14 hours over a 24-hour period, when connected via 20 meter Ethernet cables.
[2] Jumbo Frame support for 9600 Bytes is applicable in Gigabit mode only. Use of Jumbo Frame feature requries 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] 5-Year Limited Warranty available in the USA and Canada only.

Green Ethernet features available on hardware version C1 or later. 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. C1

BUSINESS