



## Product Highlights

### Gigabit Ethernet Speed

High-speed ports provide the latest Ethernet technology while remaining backward compatible for connections to older computers and equipment

### Built to Last

Rugged metal housing, desktop or rackmountable, reliability that businesses demand.

### Eco-Friendly

Innovative D-Link Green Ethernet features save power automatically so you can do your part for the environment while reducing operating costs



Limited  
Lifetime  
Warranty

## DGS-1016D/1024D

# 16/24-Port Gigabit Unmanaged Desktop or Rackmount Switch

## Features

### Physical

- 16 or 24 Gigabit Ethernet ports for fast network speeds
- Desktop or rackmountable metal housing
- Fanless design for silent operation

### Performance

- IEEE 802.3x Flow Control
- Auto MDI/MDI-X crossover for all ports
- Full/half-duplex for Ethernet/Fast Ethernet speeds
- 9216 Byte Jumbo Frames (DGS-1016D) and 9600 Byte Jumbo Frames (DGS-1024D)

### Energy Efficiency

- Innovative D-Link Green Ethernet Technology conserves energy
- Link status detection reduces power usage
- Cable length detection uses energy more efficiently
- 802.3az EEE hardware implementation reduces power consumption significantly
- RoHS compliant

### Easy Installation

- Plug-and-play installation saves you time

The D-Link 16-Port Gigabit Unmanaged Desktop or Rackmount Switch and the 24-Port Gigabit Unmanaged Desktop or Rackmount Switch each offer an economical way for SOHO and small to medium businesses (SMB) to deploy an energy-efficient switch that features the increased bandwidth of Gigabit ports.

## Gigabit on Every Port

The 16/24-Port Gigabit Unmanaged Desktop or Rackmount Switch series brings the speed of Gigabit Ethernet to each and every port for a truly high-speed network. If your network has a mix of legacy and modern computing capabilities, each port allows for standard Ethernet, Fast Ethernet, or Gigabit Ethernet connections. You have the latest technology available to every computer and device connected to your network.

## Easy to Install and Maintain

These switches were 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. Diagnostic LEDs and cable diagnostics allow for quick detection and correction of network problems.

## Conserves Energy

The 16/24-Port Gigabit Unmanaged Desktop or Rackmount Switch series helps you conserve energy automatically through several methods. It automatically powers down ports that have no link, allowing the switch to save substantial amounts of power by cutting power usage for unused ports or any ports connected to computers that have been shut down. It can also detect connected cable lengths, and adjusts power usage accordingly, helping you save energy without affecting networking performance.



## Limited Lifetime Warranty

D-Link offers a Limited Lifetime Warranty on the DGS-1016D/1024D unmanaged switches to further its commitment to product quality and long-term customer confidence.

## Think Green

The 16/24-Port Gigabit Unmanaged Desktop or Rackmount Switch series makes use of D-Link Green Ethernet technology, providing more energy savings and a longer product life, without sacrificing operational performance or functionality. These environmentally friendly switches are also RoHS compliant, use recyclable packaging, and minimize the use of harmful substances.

## Technical Specifications

	DGS-1016D	DGS-1024D
		
<b>General</b>		
Number of Ports	• Sixteen 10/100/1000 Gigabit ports	• Twenty-four 10/100/1000 Gigabit ports
Standards	<ul style="list-style-type: none"> <li>• IEEE 802.3 10BASE-T Ethernet</li> <li>• IEEE 802.3u 100BASE-TX Fast Ethernet</li> <li>• IEEE 802.3ab 1000BASE-T Gigabit Ethernet</li> <li>• ANSI/IEEE 802.3 NWay auto-negotiation</li> <li>• IEEE 802.3x Flow Control</li> </ul>	
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> <li>• Gigabit Ethernet: <ul style="list-style-type: none"> <li>• 2000 Mbps (full duplex)</li> </ul> </li> </ul>	
Network Cables	<ul style="list-style-type: none"> <li>• 10BASE-T: <ul style="list-style-type: none"> <li>• UTP CAT 3, 4, 5/5e (100 m max)</li> <li>• EIA/TIA-586 100-ohm STP (100 m max)</li> </ul> </li> <li>• 100BASE-TX, 1000BASE-T: <ul style="list-style-type: none"> <li>• UTP CAT 5/5e (100 m max)</li> <li>• EIA/TIA-568 100-ohm STP (100 m max)</li> </ul> </li> </ul>	
<b>Functionality</b>		
D-Link Green Features	<ul style="list-style-type: none"> <li>• IEEE 802.3az Energy Efficient Ethernet (EEE)</li> <li>• Link status detection power saving</li> <li>• Cable length detection power saving</li> <li>• RoHS Compliance</li> </ul>	
Media Interface Exchange	• Auto MDI/MDIX	
Transmission Method	• Store-and-Forward switching method	
MAC Address Table	• 8K MAC addresses	
RAM Buffer	• 512 KBytes RAM for data buffering	
Jumbo Frames	• 9216 Bytes	• 9600 Bytes
Switching Capacity	• 32 Gbps	• 48 Gbps
Port Packet Filtering	<ul style="list-style-type: none"> <li>• 10M: 14,880 pps</li> <li>• 100M: 148,800 pps</li> <li>• 1000M: 1,488,000 pps</li> </ul>	

# DGS-1016D/1024D

## 16/24-Port Gigabit Unmanaged Desktop or Rackmount Switch

Physical		
LEDs	<ul style="list-style-type: none"> <li>• Power LED</li> <li>• 16 Link/Activity/Speed LEDs (one per port)</li> </ul>	<ul style="list-style-type: none"> <li>• Power LED</li> <li>• 24 Link/Activity/Speed LEDs (one per port)</li> </ul>
Power Inputs	<ul style="list-style-type: none"> <li>• 100 to 240V AC Input</li> </ul>	
Power Consumption	<ul style="list-style-type: none"> <li>• Standby: 4.48 watts</li> <li>• Maximum: 9.84 watts</li> </ul>	<ul style="list-style-type: none"> <li>• Standby: 6.5 watts</li> <li>• Maximum: 13.5 watts</li> </ul>
Heat Dissipation	<ul style="list-style-type: none"> <li>• Standby: 15.2768 btU/h</li> <li>• Maximum: 33.5544 btU/h</li> </ul>	<ul style="list-style-type: none"> <li>• Standby: 22.165 btU/h</li> <li>• Maximum: 44.035 btU/h</li> </ul>
MTBF	<ul style="list-style-type: none"> <li>• 795,539 hours</li> </ul>	<ul style="list-style-type: none"> <li>• 633,536 hours</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• 11.02 x 4.92 x 1.73 inches (280 x 125 x 44 mm)</li> </ul>	<ul style="list-style-type: none"> <li>• 11.02 x 7.09 x 1.73 inches (280 x 180 x 44 mm)</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• 2.34 lbs (1.06 kg)</li> </ul>	<ul style="list-style-type: none"> <li>• 3.66 lbs (1.66 kg)</li> </ul>
Operating Temperature	<ul style="list-style-type: none"> <li>• 32 to 104 °F (0 to 40 °C)</li> </ul>	
Storage Temperature	<ul style="list-style-type: none"> <li>• 14 to 158 °F (-10 to 70 °C)</li> </ul>	
Humidity	<ul style="list-style-type: none"> <li>• 5% to 90% non-condensing</li> </ul>	
Certifications	<ul style="list-style-type: none"> <li>• FCC Class A</li> <li>• ICES-003 Class A</li> <li>• CE Class A</li> <li>• C-Tick Class A</li> <li>• CB</li> <li>• cUL</li> </ul>	
Ordering Information		
<i>Part Number</i>	<i>Description</i>	
DGS-1016D	16-Port Gigabit Unmanaged Desktop or Rackmount Switch	
DGS-1024D	24-Port Gigabit Unmanaged Desktop or Rackmount Switch	
Warranty Information		
Warranty	Limited Lifetime Warranty	

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### For more information

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