

## Product Highlights

### Gigabit Ethernet Speed

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

### Durable Design

Durable and compact metal housing, high port count, and a fanless design for noise-free operation

### Green Solution

A range of D-Link Green technology features help save energy automatically and reduce costs, without sacrificing performance



## DGS-1016D/1024D

# 16/24-Port Gigabit Unmanaged Switch

## Features

### Physical : Layer 2 on OSI model.

- 16 or 24 Gigabit Ethernet ports for fast network speeds and backwards compatibility
- Durable metal housing
- Fanless design for silent operation

### Performance

- IEEE 802.3x Flow Control
- Auto MDI/MDI-X crossover for all ports
- Half/full-duplex for Ethernet/Fast Ethernet speeds
- Supports up to 10,000 bytes jumbo frames

### Energy Efficiency

- Innovative D-Link Green Ethernet technology
- Link status detection
- 802.3az Energy-Efficient Ethernet (EEE)
- RoHS-compliant

### Easy Installation

- Plug-and-play installation with no additional configuration required

### DIP Switch-Controllable Features

- Energy-Efficient Ethernet (EEE), Flow Control, Port Isolation, and Storm Control

The D-Link DGS-1016D and the DGS-1024D 24-Port Unmanaged Gigabit Switch series offer an economical way for SOHO and Small-to-Medium Businesses (SMB) to take advantage of Gigabit Ethernet speeds, while reducing energy consumption and minimizing noise output.

## Gigabit Connectivity

The DGS-1016D/1024D switches bring the speed of Gigabit Ethernet to all ports for a truly high-speed network. If your network has a mix of legacy and modern connection interfaces, 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.

## Improved Network Efficiency

The DGS-1016D/1024D switches incorporate several advanced features to help simplify and improve network management and efficiency. Flow Control throttles connections to ensure reliability during heavy usage periods by reducing packet loss and wasteful data retransmission. In addition, Storm Control and Port Isolation mitigate the effects of broadcast storms caused by rogue software and malware, which can propagate across the network and bring communication to a standstill.

## Innovative Design

The DGS-1016D/1024D feature a durable, compact metal case alongside a fanless design allowing for improved heat dissipation while maintaining silent operation. The 16/24-Port Gigabit Unmanaged Switch series is small, lightweight, wall-mountable, and is ideal for any business with demanding requirements and a small budget.

## Green Technology

The 16/24-Port Gigabit Unmanaged Switch series helps you conserve energy automatically through several methods. Link status detection automatically powers down ports that have no link, allowing the switches to save substantial amounts of power by cutting power usage for unused ports or any ports connected to computers that have been shut down.

Meanwhile, Energy-Efficient Ethernet (EEE) conserves energy by dynamically reducing power consumption when data activity is low. These environmentally friendly switches are also RoHS compliant, use recyclable packaging, and minimize the use of harmful substances. These green features combined, provide more energy savings and a longer product life, without sacrificing operational performance or functionality.

## Technical Specifications

General	DGS-1016D	DGS-1024D
Number of Ports	• 16 10/100/1000 Mbps ports	• 24 10/100/1000 Mbps ports
Standards	<ul style="list-style-type: none"> <li>• IEEE 802.3 10BASE-T</li> <li>• IEEE 802.3u 100BASE-TX</li> <li>• IEEE 802.3ab 1000BASE-T</li> <li>• IEEE 802.1p Quality of Service (QoS)</li> <li>• IEEE 802.3x Flow Control supported for full-duplex               <ul style="list-style-type: none"> <li>• Auto-negotiation</li> </ul> </li> <li>• IEEE 802.3az Energy-Efficient Ethernet (EEE)</li> </ul>	
Data Transfer Rates	<ul style="list-style-type: none"> <li>• Ethernet: 10 Mbps/20 Mbps (half-duplex/full-duplex)</li> <li>• Fast Ethernet: 100 Mbps/200 Mbps (half-duplex/full-duplex)</li> <li>• Gigabit Ethernet: 2000 Mbps (full-duplex)</li> </ul>	
Network Cables	<ul style="list-style-type: none"> <li>• Ethernet: 2-pair UTP Cat.3/4/5/5e, Unshielded Twisted Pair (UTP) Cable</li> <li>• Fast Ethernet: 2-pair UTP Cat.5/5e, Unshielded Twisted Pair (UTP) Cable</li> <li>• Gigabit Ethernet: 4-pair UTP Cat.5/5e, Unshielded Twisted Pair (UTP) Cable</li> </ul>	
Functionality		
D-Link Green Features	• Power saving by link status and cable length	
Security	• Storm Control	
QoS (Quality of Service)	<ul style="list-style-type: none"> <li>• 802.1p priority</li> <li>• 8 queues</li> </ul>	
Cable Diagnostics	• Indicated through port LEDs	
Switching Features		
Protocol	• CSMA/CD	
Switching Capacity	• 32 Gbps	• 48 Gbps
Max. Forwarding Rate	• 23.81 mpps	• 35.71 mpps
Packet Buffer RAM	• 512 KBytes per device	
Filtering Address Table	• 8K MAC addresses per device	
Packet Filtering/Forwarding Rate	<ul style="list-style-type: none"> <li>• Ethernet: 14,880 pps per port</li> <li>• Fast Ethernet: 148,800 pps per port</li> <li>• Gigabit Ethernet: 1,488,000 pps per port</li> </ul>	
MAC Address Learning	• Self-learning, auto-aging	
Forwarding Mode	• Store-and-forward	

# DGS-1016D/1024D 16/24-Port Gigabit Unmanaged Switch

Physical		
Indicator LEDs	• Power LED (per device)	
	• Link/Activity/Speed LEDs (per port)	
DIP Switch	<ul style="list-style-type: none"> <li>• Energy-Efficient Ethernet (EEE)</li> <li>• Flow Control</li> <li>• Port Isolation and Storm Control</li> </ul>	
AC Inputs	<ul style="list-style-type: none"> <li>• Internal universal power supply</li> <li>• 100~240 V AC; 50 to 60 Hz, 0.2 A max</li> </ul>	<ul style="list-style-type: none"> <li>• Internal universal power supply</li> <li>• 100~240 V AC; 50 to 60 Hz, 0.3 A max</li> </ul>
Maximum Power Consumption	• 10.07 W	• 13.3 W
Standby Power Consumption	• 3.02 W	• 4.4 W
Maximum Heat Dissipation	• 34.3 BTU/h	• 45.35 BTU/h
MTBF	• 1,882,372 hours	• 863,100 hours
Acoustic Value	• 0 dB(A) Fanless	
Dimensions	• 280 x 125 x 44 mm (11.02 x 4.92 x 1.73 inch)	• 280 x 180 x 44 mm (11.02 x 7.09 x 1.73 inch)
Weight	• 1.02 kg (2.25 lbs)	• 1.30 kg (2.87 lbs)
Operating Temperature	• 0 °C to 40 °C (32 °F to 104 °F)	
Storage Temperature	• -10 °C to 70 °C (14 °F to 158 °F)	
Operating Humidity	• 0% to 95% RH, non-condensing	
Storage Humidity	• 0% to 95% RH	
Certifications		
Emission Certifications (EMI)	<ul style="list-style-type: none"> <li>• ICES-003 Class A</li> <li>• FCC Class A</li> <li>• RCM Class A</li> <li>• BSMI Class A</li> </ul>	<ul style="list-style-type: none"> <li>• CE Class A</li> <li>• VCCI A</li> <li>• CCC</li> <li>• KCC</li> </ul>
Safety	<ul style="list-style-type: none"> <li>• cUL/UL</li> <li>• CE LVD</li> <li>• CCC</li> </ul>	<ul style="list-style-type: none"> <li>• CB</li> <li>• BSMI</li> </ul>
Order Information		
<i>Part Number</i>	<i>Description</i>	
DGS-1016D	16-Port Unmanaged Gigabit Switch	
DGS-1024D	24-Port Unmanaged Gigabit Switch	

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