

# **Product Highlights**

#### **Gigabit Ethernet Speed**

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

#### **Revolutionary Design**

Compact metal case for high-port count Gigabit switches, plus a fanless design that provides noise-free operation at all times

#### **Green Solution**

Range of D-Link Green Technology features help save energy usage automatically and reduce costs, without sacrificing performance



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

## Features

#### Physical

- 16 or 24 Gigabit Ethernet ports for fast network speeds
- Metal case for better heat dissipation and a compact size
- 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
- 802.3az EEE hardware implementation reduces power consumption significantly
- RoHS compliant

#### **Easy Installation**

• Plug-and-play installation saves you time

#### **DIP Switch Controllable Features**

• Energy-Efficient Ethernet (EEE), Flow Control, Port Isolation and Storm Control The D-Link DGS-1016D 16-Port Unmanaged Gigabit Switch and the DGS-1024D 24-Port Unmanaged Gigabit 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 Unmanaged Gigabit 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.

## Improve Network Efficiency

DGS-1016D/1024D 16/24-Port Unmanaged Gigabit Switches incorporate several optional advanced features to help simplify and improve network management and efficiency. Flow Control throttles connections to ensure connectivity during heavy usage periods by reducing packet loss and wasteful data retransmission. In addition, Storm Control and Port Isolation mitigates the effects of broadcast storms caused by rogue software and malware, which propogate across networks and can bring communication to a standstill.

## **Innovative Design**

The metal case of the DGS-1016D/1024D series and a compact desktop style, helps generate heat dissipation levels that allow for a fanless design, making the switches silent, as well as economical. The 16/24-Port Unmanaged Gigabit Switch series is small, lightweight, wall-mountable, and ideal for any business with big needs and a small budget.



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# **Think Green**

The 16/24-Port Unmanaged Gigabit 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.

# **Conserve Energy**

The 16/24-Port Unmanaged Gigabit Switch series features D-Link Green Ethernet technology which provides 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**

General	DGS-1016D	DGS-1024D
Number of Ports	• 16 10/100/1000 Gigabit ports	• 24 10/100/1000 Gigabit ports
Standards	IEEE 802.3 10BASE-T     IEEE 802.3u     IEEE 802.3ab     IEEE 802.1p QoS     IEEE 802.3x Flow Control supported for Full Duplex, Auto-Negotiation     IEEE 802.3az Energy Efficiency Ethernet	
Data Tranfer Rates	Ethernet: 10 Mbps/20 Mbps (Half-duplex/Full-duplex)     Fast Ethernet: 100 Mbps/200 Mbps (Half-duplex/Full-duplex)         Gigabit Ethernet: 2000 Mbps (Full-duplex)	
Network Cables	<ul> <li>Ethernet: 2-pair UTP Cat.3/4/5/5e, Unshield Twisted Pair (UTP )Cable</li> <li>Fast Ethernet: 2-pair UTP Cat.5/5e, Unshield Twisted Pair (UTP )Cable</li> <li>Gigabit Ethernet: 4-pair UTP Cat.5/ 5e, Unshield Twisted Pair (UTP )Cable</li> </ul>	
Functionality		
D-Link Green Features	Power saving by link status	
Security	Storm Control	
QoS (Quality of Service)	• 802.1p priority • 4 queues	
VLAN	Port Based VLAN	
L2 Features	Cable Diagnostics	
Switching Features		
Protocol	• CSMA/CD	
Packet Buffer RAM	• 512 KBytes per device/Kbits per device	
Filtering Address Table	8K MAC address per device	
Packet Filtering/Forwarding Rate	Full wire speed	
MAC Address Learning	Self-learning, auto-aging	
Forwarding Mode	Store-and-forward	
Тороlоду	• Star	



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

Performance	DGS-1016D	DGS-1024D
Switching Capacity	• 32 Gbps	• 48 Gbps
Max. Forwarding Rate	• 23.81 Mbps	• 35.71 Mbps
Port Packet Filtering	• 10M: 14,880 pps • 100M: 148,800 pps • 1000M: 1,488,000 pps	
Physical		
LEDs	Power LED	
	• 16 Link/Activity/Speed LEDs (one per port)	• 24 Link/Activity/Speed LEDs (one per port)
DIP Switches	Energy-Efficient Ethernet (EEE)     Flow Control     Port Isolation and Storm Control	
AC Inputs	<ul> <li>Internal universal power supply</li> <li>100~240VAC; 50-60Hz, 0.4A Max.</li> </ul>	
Maximum Power Consumption	• 10.24 watts	• 12.5 watts
Standby Power Consumption	• 4.78 watts	• 5 watts
Maximum Heat Dissipation	• 34.94 btU/h	• 42.66 btU/h
Standby Heat Dissipation	• 16.30 btU/h	• 17.06 btU/h
MTBF	• 908,130 hours	• 1,157,698 hours
Acoustic Value	OdB(A) Fanless	
Dimensions	• 280 x 125 x 44 mm (11.02 x 4.92 x 1.73 inches)	• 280 x 180 x 44 mm (11.02 x 7.09 x 1.73 inches)
Weight	• 1.038 kg (2.29 pounds)	• 1.35 kg (2.98 pounds)
Operating Temperature	• 0 °C ~ 40 °C (32°F ~ 104°F)	
Storage Temperature	• -10°C ~ 70°C (14°F ~ 158°F)	
Operating Humidity	• 5% ~ 90% RH, non-condensing	
Storage Humidity	• 5% ~ 95% RH	
Certifications		
Emission Certifications (EMI)	FCC Class A     ICES-003 Class A     CE Class A     CE Class A     VCCI Class A     VCCI Class A     C-Tick Class A     CCC     BSMI     KCC	
Safety	• cUL/UL • CB • CCC • BSMI • CE(LVD)	

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

Order Information		
Part Number	Description	
DGS-1016D	16-Port Unmanaged Gigabit Switch	
DGS-1024D	24-Port Unmanaged Gigabit Switch	

Updated 2015/06/10

