

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

Compliance with IEEE 802.3az EEE to help save energy automatically and reduce costs, without sacricing performance



DGS-1016D/1024D

16/24-Port Gigabit Unmanaged Switch

Features

Physical

- 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 E ciency

- · Link status detection
- 802.3az Energy-E cient Ethernet (EEE)
- · RoHS-compliant

Easy Installation

Plug-and-play installation with no additional con guration required

DIP Switch-Controllable Features

• Energy-E cient Ethernet (EEE), Flow Control, Port Isolation, and Storm Control The D-Link DGS-1016D and the DGS-1024D 24-Port Gigabit Unmanaged Switch series o er 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 E ciency

The DGS-1016D/1024D switches incorporate several advanced features to help simplify and improve network management and e ciency. 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 e ects 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 rack-mountable and ideal for any business with demanding requirements and a small budget.



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

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-E cient 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 sacricing operational performance or functionality.

Technical Speci cations			
General	DGS-1016D	DGS-1024D	
Number of Ports	• 16 10/100/1000 Mbps ports	• 24 10/100/1000 Mbps ports	
Standards	• IEEE 802.3 10BASE-T • IEEE 802.3u 100BASE-TX • IEEE 802.3ab 1000BASE-T • IEEE 802.1p Quality of Service (QoS) • IEEE 802.3x Flow Control supported for full-duplex • Auto-negotiation • IEEE 802.3az Energy-Efficient Ethernet (EEE)		
Data Transfer 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	 Ethernet: 2-pair UTP Cat.3/4/5/5e, Unshielded Twisted Pair (UTP) Cable Fast Ethernet: 2-pair UTP Cat.5/5e, Unshielded Twisted Pair (UTP) Cable Gigabit Ethernet: 4-pair UTP Cat.5/5e, Unshielded Twisted Pair (UTP) Cable 		
Functionality			
Green Features	Power saving by link status and cable length		
Security	Storm Control		
QoS (Quality of Service)	• 802.1p priority • 8 queues		
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	• Ethernet: 14,880 pps per port • Fast Ethernet: 148,800 pps per port • Gigabit Ethernet: 1,488,000 pps per port		
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 LE	Power LED (per device)	
	• Link/Activity/	Link/Activity/Speed LEDs (per port)	
DIP Switch	Energy-Efficient Ethernet (EEE) Flow Control Port Isolation and Storm Control		
AC Inputs	Internal universal power supply100~240 V AC; 50 to 60 Hz, 0.2 A max	 Internal universal power supply 100-240 V AC; 50 to 60 Hz, 0.3 A max 	
Maximum Power Consumption	• 10.3 W	• 15.2 W	
Standby Power Consumption	• 4.85 W	• 6.98 W	
Maximum Heat Dissipation	• 35.14 BTU/h	• 51.86 BTU/h	
MTBF	• 598,040 hours	• 485,750 hours	
Acoustic Value	• 0 dB	• 0 dB(A) Fanless	
Dimensions	• 280 x 126 x 44 mm (11.02 x 4.96 x 1.73 inch)	• 280 x 126 x 44 mm (11.02 x 4.96 x 1.73 inch)	
Weight	• 0.94 kg (2.07 lbs)	• 1.004 kg (2.21lbs)	
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		
Certi cations			
Emission Certifications (EMI)	ICES-003 Class A FCC Class A RCM Class A BSMI Class A	CE Class A VCCI A CCC	
Safety	• cUL/UL • CE LVD • CCC	• CB • BSMI	
Order Information			
Part Number	Description		
DGS-1016D	16-Port Gigabit Unmanaged Switch		
DGS-1024D	24-Port Gigabit Unmanaged Switch		

Updated 2021/12/06

