D-Link®

Product Highlights

Gigabit Ethernet Speeds

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

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

DGS-1016D and DGS-1024D

Limited Lifetime Warranty

16 and 24-Port Gigabit Unmanaged Desktop or Rackmount Switches

Features

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

Performance
- IEEE 802.3x Flow Control (can be enabled/disabled[1])
- Port Isolation and Broadcast Storm Control (can be enabled/disabled[1])
- Auto MDI/MDI-X crossover for all ports
- Full/half-duplex for Ethernet/Fast Ethernet speeds
- Jumbo Frame support

Energy Efficiency
- Innovative D-Link Green Ethernet Technology conserves energy
- Link status detection reduces power usage
- 802.3az EEE reduces power consumption significantly (can be enabled/disabled[1])
- 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

Overview

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.

Limited Lifetime Warranty

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

Technical Specifications

	DGS-1016D	DGS-1024D
General		
Hardware Version	• H	• H
Number of Ports	• Sixteen (16) 10/100/1000 Gigabit ports	• Twenty-four (24) 10/100/1000 Gigabit ports
Standards	• IEEE 802.3 10BASE-T Ethernet • IEEE 802.3u 100BASE-TX Fast Ethernet • IEEE 802.3ab 1000BASE-T Gigabit Ethernet • ANSI/IEEE 802.3 NWay auto-negotiation • IEEE 802.3x Flow Control	• IEEE 802.3 10BASE-T Ethernet • IEEE 802.3u 100BASE-TX Fast Ethernet • IEEE 802.3ab 1000BASE-T Gigabit Ethernet • ANSI/IEEE 802.3 NWay auto-negotiation • IEEE 802.3x Flow Control
Data Transfer Rates	• Ethernet: 　• 10 Mbps (half duplex) / 20 Mbps (full duplex) • Fast Ethernet: 　• 100 Mbps (half duplex) / 200 Mbps (full duplex) • Gigabit Ethernet: 　• 2000 Mbps (full duplex)	• Ethernet: 　• 10 Mbps (half duplex) / 20 Mbps (full duplex) • Fast Ethernet: 　• 100 Mbps (half duplex) / 200 Mbps (full duplex) • Gigabit Ethernet: 　• 2000 Mbps (full duplex)
Network Cables	• 10BASE-T: 　• UTP CAT 3, 4, 5/5e (100 m max) 　• EIA/TIA-586 100-ohm STP (100 m max) • 100BASE-TX, 1000BASE-T: 　• UTP CAT 5/5e (100 m max) 　• EIA/TIA-568 100-ohm STP (100 m max)	• 10BASE-T: 　• UTP CAT 3, 4, 5/5e (100 m max) 　• EIA/TIA-586 100-ohm STP (100 m max) • 100BASE-TX, 1000BASE-T: 　• UTP CAT 5/5e (100 m max) 　• EIA/TIA-568 100-ohm STP (100 m max)

Functionality

D-Link Green Features	• Power saving by link status and cable length	• Power saving by link status and cable length
Security	• Storm Control	• Storm Control
QoS (Quality of Service)	• 802.1p priority • 8 queues	• 802.1p priority • 8 queues
Cable Diagnostics	• Indicated through port LEDs	• Indicated through port LEDs

Switching Features

Protocol	• CSMA/CD	• CSMA/CD
Switching Capacity	• 32 Gbps	• 48 Gbps
Max. Forwarding Rate	• 23.81 mpps	• 35.71 mpps
Packet Buffer RAM	• 512 KBytes per device	• 512 KBytes per device
Filtering Address Table	• 8K MAC addresses per device	• 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	• 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	• Self-learning, auto-aging
Forwarding Mode	• Store-and-forward	• Store-and-forward

Physical & Environmental

Indicator LEDs	• Power LED (per device) • Link/Activity/Speed LEDs (per port)	• Power LED (per device) • Link/Activity/Speed LEDs (per port)
DIP Switch	• Energy-Efficient Ethernet (EEE) • Flow Control • Port Isolation and Storm Control	• Energy-Efficient Ethernet (EEE) • Flow Control • Port Isolation and Storm Control
AC Input	• Internal universal power supply • 100~240 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	• 10.07 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	• 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)	• 0 °C to 40 °C (32 °F to 104 °F)
Storage Temperature	• -10 °C to 70 °C (14 °F to 158 °F)	• -10 °C to 70 °C (14 °F to 158 °F)
Operating Humidity	• 0% to 95% RH, non-condensing	• 0% to 95% RH, non-condensing
Storage Humidity	• 0% to 95% RH	• 0% to 95% RH

Certifications

Emission Certifications (EMI)	• ICES-003 Class A • FCC Class A • RCM Class A • BSMI Class A • CE Class A • VCCI A • CCC • KCC	• ICES-003 Class A • FCC Class A • RCM Class A • BSMI Class A • CE Class A • VCCI A • CCC • KCC
Safety	• cUL/UL • CE LVD • CCC • CB • BSMI	• cUL/UL • CE LVD • CCC • CB • BSMI

Ordering Information

Part Number	Description	Warranty
DGS-1016D	16-Port Unmanaged Gigabit Switch	Limited Lifetime[2]
DGS-1024D	24-Port Unmanaged Gigabit Switch	Limited Lifetime[2]

[1] Front panel control switches are applicable only for DGS-1016D hardware rev G3 and higher, and for DGS-1024D hardware rev G2 and higher.
[2] Limited Lifetime Warranty available in USA only. Warranty void when not purchased from Authorized US D-Link Reseller. Please visit us.dlink.com for list of Authorized US Resellers.

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DGS-1016D-1024D_REVH1_DATASHEET_1.10_EN_US.PDF

For more information

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