

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

Eco-Friendly

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



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
- 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 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.

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.

Conserves Energy

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. It can also detect connected cable lengths, and adjusts power usage accordingly, helping you save energy without affecting networking performance.

Think Green

The DGS-1016D/1024D 16/24-Port Unmanaged Gigabit 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		
General	DGS-1016D	DGS-1024D
Number of Ports	<ul style="list-style-type: none"> Sixteen 10/100/1000 Gigabit ports 	<ul style="list-style-type: none"> Twenty-four 10/100/1000 Gigabit ports
Standards	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Ethernet: <ul style="list-style-type: none"> 10 Mbps (half duplex) 20 Mbps (full duplex) Fast Ethernet: <ul style="list-style-type: none"> 100 Mbps (half duplex) 200 Mbps (full duplex) Gigabit Ethernet: <ul style="list-style-type: none"> 2000 Mbps (full duplex) 	<ul style="list-style-type: none"> Ethernet: <ul style="list-style-type: none"> 10 Mbps (half duplex) 20 Mbps (full duplex) Fast Ethernet: <ul style="list-style-type: none"> 100 Mbps (half duplex) 200 Mbps (full duplex) Gigabit Ethernet: <ul style="list-style-type: none"> 2000 Mbps (full duplex)
Network Cables	<ul style="list-style-type: none"> 10BASE-T: <ul style="list-style-type: none"> UTP CAT 3, 4, 5/5e (100 m max) EIA/TIA-586 100-ohm STP (100 m max) 100BASE-TX, 1000BASE-T: <ul style="list-style-type: none"> UTP CAT 5/5e (100 m max) EIA/TIA-568 100-ohm STP (100 m max) 	<ul style="list-style-type: none"> 10BASE-T: <ul style="list-style-type: none"> UTP CAT 3, 4, 5/5e (100 m max) EIA/TIA-586 100-ohm STP (100 m max) 100BASE-TX, 1000BASE-T: <ul style="list-style-type: none"> UTP CAT 5/5e (100 m max) EIA/TIA-568 100-ohm STP (100 m max)
Functionality	DGS-1016D	DGS-1024D
D-Link Green Features	<ul style="list-style-type: none"> IEEE 802.3az Energy Efficient Ethernet (EEE) Link status detection power saving Cable length detection power saving RoHS Compliance 	<ul style="list-style-type: none"> IEEE 802.3az Energy Efficient Ethernet (EEE) Link status detection power saving Cable length detection power saving RoHS Compliance
LAN Features	<ul style="list-style-type: none"> Back pressure at half-duplex operation Auto MDI/MDIX Wire speed reception and transmission Store-and-Forward switching method 8K MAC addresses 4 Mbits RAM for data buffering Jumbo Frames: 9216 Bytes Switching Capacity: 32 Gbps 	<ul style="list-style-type: none"> Back pressure at half-duplex operation Auto MDI/MDIX Wire speed reception and transmission Store-and-Forward switching method 8K MAC addresses 4 Mbits RAM for data buffering Jumbo Frames: 9600 Bytes Switching Capacity: 48 Gbps
Port Packet Filtering	<ul style="list-style-type: none"> 10M: 14,880 pps 100M: 148,800 pps 1000M: 1,488,000 pps 	<ul style="list-style-type: none"> 10M: 14,880 pps 100M: 148,800 pps 1000M: 1,488,000 pps
Physical	DGS-1016D	DGS-1024D
LEDs	<ul style="list-style-type: none"> Power LED <ul style="list-style-type: none"> 16 Link/Activity/Speed LEDs (one per port) 	<ul style="list-style-type: none"> Power LED <ul style="list-style-type: none"> 24 Link/Activity/Speed LEDs (one per port)
Power Inputs	<ul style="list-style-type: none"> 100 to 240V AC Input 	<ul style="list-style-type: none"> 100 to 240V AC Input
Power Consumption	<ul style="list-style-type: none"> Standby: 4.48 watts Maximum: 9.84 watts 	<ul style="list-style-type: none"> Standby: 6.5 watts Maximum: 13.5 watts
Heat Dissipation	<ul style="list-style-type: none"> Standby: 15.2768 btU/h Maximum: 33.5544 btU/h 	<ul style="list-style-type: none"> Standby: 22.165 btU/h Maximum: 44.035 btU/h

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

MTBF	• 795,539 hours	• 633,536 hours
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	• 1.06 kg (2.34 lbs)	• 1.66 kg (3.66 lbs)
Operating Temperature	• 0 to 40 °C (32 to 104 °F)	• 0 to 40 °C (32 to 104 °F)
Storage Temperature	• -10 to 70 °C (14 to 158 °F)	• -10 to 70 °C (14 to 158 °F)
Humidity	• 5% to 90% non-condensing	• 5% to 90% non-condensing
Certifications	<ul style="list-style-type: none">• FCC Class A• ICES-003 Class A• CE Class A• C-Tick Class A• CB• cUL	<ul style="list-style-type: none">• FCC Class A• ICES-003 Class A• CE Class A• C-Tick Class A• CB• cUL
Order Information		
<i>Part Number</i>	<i>Description</i>	
DGS-1016D	16-Port Unmanaged Gigabit Switch	
DGS-1024D	24-Port Unmanaged Gigabit Switch	

Updated 2014/03/20