

**BUILD YOUR OWN  
GREEN NETWORK**



## 8-PORT GIGABIT SWITCH

### **ECO-FRIENDLY**

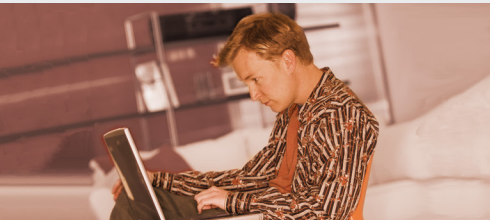
Innovative design runs quiet, cool, and clean, saving power automatically

### **HIGH SPEED NETWORKING**

Transfer files over your network at blazing gigabit speeds

### **INTELLIGENT DATA STREAMING**

QoS support provides clear VoIP calls and smooth online gaming



### **THINK GREEN**

The D-Link 8-port Gigabit Switch is part of D-Link's new series of SOHO devices that makes use of D-Link's Green Technology, providing energy savings, reduced heat, and a longer product life without sacrificing operational performance or functionality. An efficient power adapter (EnergyStar Level V qualified), minimized use of harmful substances (RoHS compliant), and recyclable packaging make this switch truly environmentally friendly.

### **CONSERVES ENERGY**

The DGS-1008D 8-port Gigabit Switch 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 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.

### **ENVIRONMENTALLY FRIENDLY**

The 8-port Gigabit Switch was designed with the environment in mind, and is compliant with Energy Star Level V, as well as with the stringent CEC and MEPS regulations that require the use of energy efficient power adapters. The switch is also built to follow RoHS standards to minimize use of hazardous materials, and uses recyclable packaging that helps reduce waste, complying with the WEEE directive.

### GIGABIT CONNECTION FOR HOME AND SOHO

The DGS-1008D offers an economical way for SOHO and small to medium businesses (SMB) to benefit from the increased bandwidth of Gigabit Ethernet. It provides 8 Gigabit ports for fast server deployment to meet increasing network loads.

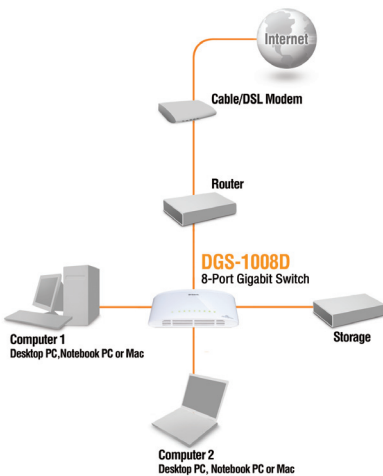
### IEEE 802.1p QoS

QoS prioritizes network traffic so that time-sensitive data is delivered efficiently, even during bursts of high data traffic. This helps ensure an optimal experience for streaming media, VoIP calls, and online gaming.

### CABLE DIAGNOSTICS FUNCTION

The D-Link Cable Diagnostics Function enables users to efficiently detect cable conditions through the LED display on the front-panel. Users can determine whether the pin connections of their cables' connectors are correct, facilitating network troubleshooting.

### YOUR NETWORK SETUP



## TECHNICAL SPECIFICATIONS

### KEY FEATURES

- Built-in D-Link Green Technology
- Inexpensive Gigabit solution for Home/SOHO
- 8 10/100/1000 Mbps Gigabit ports
- 16 Gbps switching fabric
- Auto MDI/MDIX crossover for all ports
- Secure store-and-forward switching scheme
- Full/half-duplex for Ethernet/Fast Ethernet speeds
- IEEE 802.3x Flow Control
- Supports 9,000 Byte Jumbo Frames
- Supports IEEE 802.1p QoS (4 Queues, Strict Mode)
- Supports Cable Diagnostics Function
- RoHS compliant
- Plug-and-play installation

### STANDARDS

- IEEE 802.3 10BASE-T Ethernet (twisted-pair copper)
- IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper)
- IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted-pair copper)
- ANSI/IEEE 802.3 NWay auto-negotiation
- IEEE 802.3x Flow Control
- IEEE 802.1p QoS

### PROTOCOL

- CSMA/CD

### 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)

### TOPOLOGY

- Star

### 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.)

### MEDIA INTERFACE EXCHANGE

- Auto MDI/MDIX adjustment for all ports

### LED INDICATORS

- Per port: Link/Activity/Speed
- Per device: Power

### TRANSMISSION METHOD

- Store-and-forward

### MAC ADDRESS TABLE

- 4K entries per device

### MAC ADDRESS LEARNING

- Automatic update

### PACKET FILTERING/FORWARDING RATES

- Ethernet: 14,880 pps per port
- Fast Ethernet: 148,800 pps per port
- Gigabit Ethernet: 1,488,000 pps per port

### RAM BUFFER

- 192 KBytes per device

### DC INPUT

- External 5V/1.2A Power Adapter

### POWER CONSUMPTION

- Power On (Standby):
  - DC input: 0.5 watts
  - AC input: 0.8 watts
- Maximum:
  - DC input: 4.2 watts
  - AC input: 5.8 watts

### HEAT DISSIPATION

- Power On (Standby):
  - AC input: 2.73 BTU/h
- Maximum:
  - AC input: 19.79 BTU/h

### MTBF

- 1,150,498 hours

### OPERATING TEMPERATURE

- 0 to 40 °C (32 to 104 °F)

### STORAGE TEMPERATURE

- -10 to 70 °C (14 to 158 °F)

### OPERATING HUMIDITY

- 10% to 90% RH non-condensing

### STORAGE HUMIDITY

- 5% to 90% RH non-condensing

### DEVICE DIMENSIONS (W x D x H)

- 164.5 x 112.4 x 35.0 mm (6.5 x 4.5 x 1.4 inches)

### CERTIFICATIONS

- FCC Class B
- ICES-003 Class B
- CE Class B
- C-Tick Class B
- VCCI Class B
- cUL
- LVD



D-Link Corporation  
 No. 289 Xinhua 3rd Road, Neihu, Taipei 114, Taiwan  
 Specifications are subject to change without notice.  
 D-Link is a registered trademark of D-Link Corporation and its overseas subsidiaries.  
 All other trademarks belong to their respective owners.  
 ©2010 D-Link Corporation. All rights reserved.  
 Release 11 (May 2010)