

2ND GENERATION  
GREEN TECHNOLOGY



## 5-PORT GIGABIT SWITCH

Innovative eco-friendly concept



Reduced power consumption, produces less heat



Intelligent data streaming is ideal for VoIP and gaming



### THINK GREEN

The DGS-1005D 5-port Gigabit Switch is part of D-Link's new series of SOHO devices that makes use of D-Link's 2nd generation Green Ethernet technology. The switch provides more energy savings, less heat dissipation and a longer product life without sacrificing operational performance or functionality. An efficient power supply (EnergyStar qualified), minimal harmful substances (RoHS compliant), and recyclable packaging make this switch truly environmentally friendly.

### CONSERVE ENERGY

- + Automatically powers down ports that have no link
- + Budgets power output for different Ethernet cable lengths
- + Complies with California's stringent CEC and Australia MEPS regulation requiring the use of more energy efficient power adapters
- + Complies with Energy Star level "V"

### PROTECT THE ENVIRONMENT

- + Complies with RoHS directive that restricts the use of certain hazardous materials
- + Complies with WEEE (Waste Electrical and Electronic Equipment) directives that use recyclable packaging to help reduce waste that goes into the environment

### GIGABIT CONNECTION FOR HOME AND SOHO

The DGS-1005D offers an economical way for the SOHO and small and medium businesses (SMB) to benefit from the increased bandwidth of Gigabit Ethernet. It provides 5 Gigabit ports for fast server deployment to meet increasing network load.

### IEEE 802.1p QoS

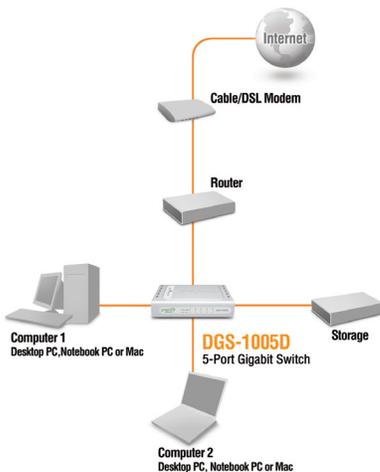
- + Ensures that time-sensitive data is delivered efficiently, even during bursts of high data traffic
- + Ensures an optimal experience for gamers and Internet users through the prioritization of network traffic

### CABLE DIAGNOSTIC FUNCTION

The D-Link Cable Diagnostic Function enables users to efficiently determine the cable condition, simply by seeing the LED displayed on the front-panel.

- Detects whether the cables connected to the device's ports are Gigabit-capable (Cat. 5 cables) or of a lower grade (Cat. 3 or 4 cables).
- Determines if the cables' pin connectors are correct to facilitate network troubleshooting.

### YOUR NETWORK SETUP



### KEY FEATURES

- + Innovative 2nd Generation Green Technology
- + Inexpensive Gigabit solution for SOHO & SMB
- + 5 10/100/1000Mbps Gigabit ports on Cat. 5 cable
- + 10Gbps switching fabric
- + Auto MDI/MDIX cross over for all ports
- + Secure store-and-forward switching scheme
- + Full/half-duplex for Ethernet/Fast Ethernet speeds
- + IEEE 802.3x Flow Control
- + Supports 9,000Bytes Jumbo Frames (only supported in 1000Mbps)
- + Supports IEEE802.1p QoS (4 Queues, Strict Mode)
- + Supports Cable Diagnostic 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:
  - 10Mbps (half duplex)
  - 20Mbps (full duplex)
- + Fast Ethernet:
  - 100Mbps (half duplex)
  - 200Mbps (full duplex)
- + Gigabit Ethernet:
  - 2000Mbps (full duplex)

### TECHNICAL SPECIFICATIONS

#### TOPOLOGY

Star

#### NETWORK CABLES

- + 10BASE-T:
  - UTP Cat. 3, 4, 5 (100 m max.)
  - EIA/TIA-586 100-ohm STP (100 m max.)
- + 100BASE-TX, 1000BASE-T:
  - UTP Cat. 5, Cat. 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: 100Mbps/1000Mbps speed, Link/Activity
- + Per device: Power

#### TRANSMISSION METHOD

Store-and-forward

#### MAC ADDRESS TABLE

1K entries per device

#### MAC ADDRESS LEARNING

Automatic update

#### PACKET FILTERING/FORWARDING RATES (HALF DUPLEX)

- + Ethernet: 14,880 pps per port
- + Fast Ethernet: 148,810 pps per port
- + Gigabit Ethernet: 1,488,100 pps per port

#### RAM BUFFER

106KBytes per device

#### DC INPUT

- + External 5V/1.2A Power Adapter
- + External 7.5V/1A Power Adapter

#### POWER CONSUMPTION

3 watts

#### 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)

142 x 108 x 31 mm (5.59 x 4.25 x 1.22 inches)

#### EMISSION (EMI)

- + FCC Class B
- + ICES-003 Class B
- + CE Class B
- + C-Tick Class B
- + VCCI Class B

#### SAFETY

CSA International

#### MTBF

101,186 hours



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