



— DGS-1008D

## 8-Port Copper Gigabit Switch for SMB and SOHO

This desktop switch offers an economical way for the SOHO and small and medium business (SMB) to benefit from the increased bandwidth of Gigabit Ethernet. It provides 8 Gigabit ports for fast server deployment to meet increasing network load. With plug-and-play installation and copper Gigabit ports capable of connecting to your existing Cat. 5 twisted-pair cable, this device instantly enhances your workgroup's performance without requiring you to install expensive fiber cables or to go through complex re-configuration.

### 8 Copper Gigabit Ports

8 Gigabit ports provide an inexpensive alternative solution to fiber-optic. Using your existing low-cost Cat. 5 copper twisted-pair wires as the transmission media, these ports allow you to instantly upgrade your servers to Gigabit capability without requiring you to install new, expensive fiber cables. All ports support 10/100/1000Mbps network speed auto-sensing and full/half duplex auto-negotiation.

### Full-duplex Gigabit Server Access

The Gigabit ports provide dedicated bandwidths for your servers running at 2000Mbps full-duplex. This gives workstations bottleneck-free paths to simultaneously access server data.

### IEEE 802.3x Flow Control

This function support allows your servers to directly connect to the switch for fast, reliable data transfer. At 2000Mbps full duplex, the switch provides high-speed data pipes to your servers with minimum data transfer loss.

### Auto-negotiation of MDI/MDIX Cross Over

All ports support auto-negotiation of MDI/MDIX cross over. This eliminates the need for cross over cables or uplink ports. Any port can simply plug to a server, a hub or a switch, using the usual straight-through twisted-pair cable.

### Seamless Integration

The switch integrates seamlessly with your existing network equipment, be it Ethernet, Fast Ethernet or Gigabit Ethernet, dispensing you of the need to replace any hardware or software.

### Plug-and-Play Installation

With 10/100/1000Mbps auto-sensing, auto-negotiation for every port, plus the ability to exist with your Cat. 5 wall wiring, network installation is a breeze. All you need to do is plug the cables to the switch, and your network is up and running in a matter of minutes.

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### Key Features

- Inexpensive Gigabit solution for SOHO & SMB
- 8 10/100/1000Mbps Gigabit ports on Cat. 5 cable
- 16Gbps switching fabric
- Auto MDI/MDIX cross over for all ports
- Secure store-and-forward switching scheme
- Full/half-duplex for Ethernet/Fast Ethernet speeds
- Blazing 2000Mbps full duplex for Gigabit speed
- IEEE 802.3x Flow Control
- Plug-and-play installation
- Easily installable on desktop

# DGS-1008D

## Technical Specifications

## Gigabit Switch

### General

#### 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

#### Number of Ports

8 10BASE-T/100BASE-TX/1000BASE-T ports

#### 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)

#### Topology

Star

#### Network Cables

- 10BASE-T:
  - UTP Cat. 3, 4, 5 (100 m max.)
  - EIA/TIA-568 100-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.)

#### Full/half Duplex

- Full/half duplex for 10/100Mbps speeds
- Full duplex for Gigabit speed

#### Media Interface Exchange

Auto MDI/MDIX adjustment for all ports

#### LED Indicators

- Per port: 100Mbps speed, 1000Mbps speed, Link/Act
- Per device: Power

### Performance

#### Transmission Method

Store-and-forward

#### MAC Address Table

8K 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

256KBytes per device

### Physical & Environmental

#### DC Input

- 5V 2.5A
- Through external power adapter

#### Power Consumption

11 watts (max.)

#### Operating Temperature

0° - 50 °C

#### Storage Temperature

-10° - 70 °C

#### Humidity

5% - 95% RH non-condensing

#### Device Dimensions

235 x 161.9 x 35.6 mm (9.25 x 6.37 x 1.4 inches)

#### Emission (EMI)

- FCC Class A
- CE Class A
- VCCI Class A

#### Safety

- CUL (UL 60950)
- LVD (EC 60950)



## Ordering Information

### Copper Gigabit Switch

**DGS-1008D** 8 10/100/1000Mbps ports

*Please specify your order as follows:*

<b>DGS-1008D/A</b>	Includes US standard power adapter
<b>DGS-1008D/E</b>	Includes EU standard power adapter
<b>DGS-1008D/B</b>	Includes UK standard power adapter
<b>DGS-1008D/N</b>	Includes Australia standard power adapter
<b>DGS-1008D/CN</b>	For China, includes China standard power adapter
<b>TGS-1008D</b>	For Taiwan, includes Taiwan standard power adapter
<b>BDGS-1008D</b>	USA packaging, includes US standard power adapter

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