



DGS-1008TL

DGS-1008TL switch with 8 10/100/1000Mbps Gigabit ports

8-Port Copper Gigabit Switch for SMB

This desktop switch offers an economical way for the 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.

For downstream network expansion, you can also attach these Gigabit ports to 10/100Mbps switches, from which workstations can access the network.

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.

Features

- Inexpensive Gigabit solution for SOHO & SMB
- 8 10/100/1000Mbps Gigabit ports on Cat. 5 cable
- Auto MDI/MDIX cross over for all ports
- Secure store-and-forward switching scheme
- Desktop size
- Rackmount kit for mounting in 19-inch standard equipment rack
- Full/half-duplex for Ethernet/Fast Ethernet speeds
- Blazing 2000Mbps full duplex for Gigabit speed
- IEEE 802.3x Flow Control
- Plug-and-play installation
- Non-blocking and wire speed

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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-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.)

Full/half Duplex

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

Media Interface Exchange

Auto MDI-II/MDI-X adjustment for all ports

Twisted-pair Rx Reverse Polarity

Auto-correction

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

2Mbits per device

Physical & Environmental

AC Input

100 - 240 VAC, 50/60 Hz

Internal universal power supply

Power Consumption

2.35 watts (max.)

Operating Temperature

0° - 40°C

Storage Temperature

-10° - 55°C

Humidity

5% - 95% non-condensing

Dimensions

280 x 180 x 44 mm

Rackmount kit for 19-inch standard rack

Emission (EMI)

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

Safety

CUL



Ordering Information

Copper Gigabit Switch

DGS-1008TL 8 10/100/1000Mbps ports

Please specify your order as follows:

DGS-1800TL/A	With North America standard power cord
DGS-1800TL/B	With UK standard power cord
DGS-1800TL/E	With EU standard power cord
DGS-1800TL/N	With Australia standard power cord
DGS-1800TL/CN	For use in China
TDGS-1800TL	For use in Taiwan

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Germany	TEL: 49-6196-77990	FAX: 49-6196-7799300
France	TEL: 33-1-30238688	FAX: 33-1-30238689
Benelux	TEL: 31-10-282-1445	FAX: 31-10-282-1331
Italy	TEL: 39-2-2900-0676	FAX: 39-2-2900-1723
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Denmark	TEL: 45-43-969040	FAX: 45-43-424347
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Australia	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
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China	TEL: 86-10-8518-2533	FAX: 86-10-8518-2250
India	TEL: 91-22-652-6696	FAX: 91-22-652-8914
Middle East	TEL: 9714-8834234	FAX: 9714-8834394
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