



DGS-1016TL (v.B1)

DGS-1016TL rack-mount switch with 16
10/100/1000Mbps Gigabit ports

16-port Copper Gigabit Switch for SMB

This rack-mount switch offers an economical way for the small and medium business (SMB) to benefit from the increased bandwidth of Gigabit Ethernet. It provides 16 Gigabit ports for server deployment and other bandwidth-intensive applications. 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.

16 Copper Gigabit Ports

16 copper 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 Access

The Gigabit ports provide dedicated bandwidths for servers and switch cascading running at 2000Mbps full-duplex. This provides bottleneck-free paths for fast network throughputs.

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 SMB
- 16 10/100/1000BASE-T Gigabit ports on Cat. 5 cable
- 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
- 802.3x Flow Control for protection against data loss
- Plug-and-play installation
- 19-inch standard rack size
- Non-blocking wire speed

DGS-1016TL

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

16 10/100/1000BASE-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/MDIX adjustment for all ports

LED Indicators

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

Performance

Transmission Method

Store-and-forward

MAC Address Table

4K 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

Physical & Environmental

Power Requirement

3.3V/10A, 12V/0.5A

AC Input

100 to 240 VAC, 50/60 Hz
Internal universal power supply

Operating Temperature

0° to 40°C

Storage Temperature

-10° to 70°C

Humidity

5% - 90% non-condensing

Dimensions

440 (W) x 210 (D) x 44 (H) mm
19-inch standard rack-mount width, 1U height

Weight

3.3kg (7.28 lbs)

Emission (EMI)

- FCC Class A
- CE Class A
- C-Tick Class A
- BSMI Class A
- VCCI Class A

Safety

CSA International



ACN 052 202 838



CSA 950
UL 1950
IEC 950
EN 60950

Ordering Information

Copper Gigabit Switch

DGS-1016T(v.B1) 16 10/100/1000BASE-T ports

D-Link®

Specifications subject to change without prior notice.
D-Link is a registered trademark of D-Link Corporation/D-Link System Inc. All other trademarks belong to their proprietors.

U.S.A

Canada

Europe

Germany

France

Benelux

Italy

Iberia

Sweden

Norway

Denmark

Finland

Singapore

Australia

Japan

China

India

Middle East

Turkey

Chile

Brasil

South Africa

Russia

Taiwan

D-Link Corp.

TEL: 1-949-788-0805

TEL: 1-905-8295033

TEL: 44-20-8731-5555

TEL: 49-6196-77990

TEL: 33-1-30238688

TEL: 31-10-282-1445

TEL: 39-2-2900-0676

TEL: 34-93-4090770

TEL: 46-(0)8564-61900

TEL: 47-22-309075

TEL: 45-43-969040

TEL: 358-9-2707-5080

TEL: 65-6774-6233

TEL: 61-2-8899-1800

TEL: 81-3-5434-9678

TEL: 86-10-8518-2533

TEL: 91-22-652-6696

TEL: 9714-8834234

TEL: 90-212-335-2553

TEL: 56-2-232-3185

TEL: 55-11-3094-2910

TEL: 27(0)1266-52165

TEL: 7-095-737-3389

TEL: 886-2-2910-2626

TEL: 886-2-2916-1600

FAX: 1-949-753-7033

FAX: 1-905-8295095

FAX: 44-20-8731-5511

FAX: 49-6196-7799300

FAX: 33-1-30238689

FAX: 31-10-282-1331

FAX: 39-2-2900-1723

FAX: 34-93-4910795

FAX: 46-(0)8564-61901

FAX: 47-22-309085

FAX: 45-43-424347

FAX: 358-9-2707-5081

FAX: 65-6774-6322

FAX: 61-2-8899-1868

FAX: 81-3-5434-9868

FAX: 86-10-8518-2250

FAX: 91-22-652-8914

FAX: 9714-8834394

FAX: 90-212-335-2500

FAX: 56-2-232-0923

FAX: 55-11-3094-2921

FAX: 27(0)1266-52186

FAX: 7-095-737-3390

FAX: 886-2-2910-1515

FAX: 886-2-2914-6299



RECYCLABLE
Rev. 02 (Oct. 2003)