



DGS-1016T

DGS-1016T 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.

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 SMB
- 16 10/100/1000Mbps 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
- IEEE 802.3x Flow Control for protection against data loss
- Plug-and-play installation
- 19-inch standard rack size

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Technical Specifications

Copper 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 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: 10Mbps speed, 100Mbps speed, 1000Mbps speed
- Per port: Full/half Duplex
- Per port: Link/Act
- Per device: Power

Performance

Transmission Method

Store-and-forward

MAC Address Table

8K entries per device

MAC Address Learning

- Automatic update
- Max Age: 300 sec.

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

128KBytes per device

Physical & Environmental

AC Input

100 - 240 VAC, 50/60 Hz

Internal universal power supply

Power Consumption

40 watts (max.)

Operating Temperature

0° - 50°C (32° - 122°F)

Storage Temperature

-25° - 55°C (-60° - 133°F)

Humidity

5% - 95% non-condensing

Dimensions

440 (W) x 210 (D) x 44 (H) mm

19-inch standard rack-mount width, 1.5 U height

Weight

6 kg (12 lb.)

Emission (EMI)

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

Safety

- CUL
- TUV/GS



ACN 052 202 838

Ordering Information

Copper Gigabit Switch

DGS-1016T 16 10/100/1000Mbps ports

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