



DGS-1024TL

DGS-1024TL rack-mount switch with 24 10/100/1000Mbps Gigabit ports

24-port Copper Gigabit Switch

This rack-mount switch offers a cost-effective and flexible way for a workgroup to benefit from the increased bandwidth of Gigabit Ethernet. It provides 24 dedicated copper 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 go through complex re-configuration.

24 Copper Gigabit Ports for Workgroup Connection

The switch provides 24 copper Gigabit ports. The 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 speeds 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 copper connections 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, MDI/MDIX plug-and-play 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 departmental connection
- 24 10/100/1000BASE-T Gigabit connections on Cat. 5 cable
- Auto MDI/MDIX 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

DGS-1024TL

Technical Specifications

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

24 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 Dependent Interface

Auto MDI/MDIX adjustment for all ports

LED Indicators

- Per port:
Link/Act
1000Mbps speed
100Mbps speed
- 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% to 95% non-condensing

Gigabit Switch

Dimensions

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

Emission (EMI)

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

Safety

CSA International



CSA 950
UL 1950
IEC 950
EN 60950

ACN 052 202 838

C US

Ordering Information

Copper Gigabit Switch

DGS-1024TL 24 10/100/1000BASE-T ports



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