



DES-1026G

The DES-1026G switch provides 24 auto-sensing 10/100Mbps ports and 2 10/100/1000Mbps copper Gigabit ports in a rack-mount box. The switch allows mix and match of Ethernet, Fast Ethernet and Gigabit in full- and half-duplex modes.

24-port 10/100Mbps Switch With 2 Built-in Copper Gigabit Connections

The DES-1026G is an unmanaged 10/100Mbps switch designed to enhance workgroup performance while providing a high level of flexibility. It provides 24 10/100Mbps ports for workstation connection, plus 2 copper Gigabit ports for server deployment, allowing a workgroup to multiply bandwidths, boost response time and satisfy heavy load demands.

24 10/100Mbps Ports for Workstation Connection

The switch comes with 24 10/100Mbps ports, allowing a small workgroup to flexibly integrate to Ethernet and Fast Ethernet. These intelligent ports detect the network speed and auto-negotiate between 10BASE-TX and 10BASE-T, as well as between full and half-duplex.

2 Copper Gigabit Ports for Server Connection

2 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. Both ports support 10/100/1000Mbps network speed auto-sensing and full/half duplex auto-negotiation.

Flow Control for Secure Transmission

All ports support flow control. This function minimizes dropped packets by sending out collision signals when the port's receiving buffer is full.

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 workstation, a server, a hub or a switch, using the usual straight-through twisted-pair cable.

Plug-and-Play

With 26 plug-and-play ports, the switch is a perfect choice for workgroups to upgrade performance in a client/server environment. The ports can be connected to workstations and servers in full-duplex, or hubs in half-duplex.

Features

- 24 10/100Mbps Fast Ethernet ports
- 2 10/100/1000Mbps copper Gigabit ports
- Auto MDI/MDIX for each port
- Full/half-duplex support for each port
- Flow control for protection against data loss for each port
- Auto-learning of network configuration
- Secure store-and-forward switching scheme
- Per-port auto-correction of reverse twisted-pair polarity
- Standard 19-inch rack-mount size

DES-1026G

Technical Specifications

10/100Mbps Unmanaged Switch With Gigabit Connections

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

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.)

Number of Ports

- 10/100Mbps port x 24
- 10/100/1000Mbps port x 2

Media Interface Exchange

Auto MDI/MDI-X for each port

Twisted-pair Rx Reverse Polarity

Auto-correction for each port

Diagnostic LEDs

Per device:

- Power

Per port:

- Link/Activity
- 100Mbps speed (10/100Mbps ports)
- 100Mbps, 1000Mbps speeds (10/100/1000Mbps ports)

Performance

Transmission Method

Store-and-forward

Filtering Address Table

8K entries per device

MAC Address Learning

Automatic update

Packet Filtering Rates

- 10BASE-T: 14,880 pps per port (half-duplex)
- 100BASE-TX: 148,810 pps per port (half-duplex)
- Gigabit Ethernet: 1,488,100 pps per port

Packet Forwarding Rates

- 10BASE-T: 14,880 pps per port (half-duplex)
- 100BASE-TX: 148,810 pps per port (half-duplex)
- Gigabit Ethernet: 1,488,100 pps per port

RAM Buffer

512Kbytes per device

Physical & Environmental

Power Supply

100 - 240 VAC, 50/60 Hz 0.3A
Internal universal power supply

Power Consumption

30 watts (max.)

Ventilation

40 x 40 mm DC fan x 2

Operating Temperature

0° - 40°C (32° - 104°F)

Storage Temperature

-10° - 70°C (12° - 158°F)

Humidity

5% - 90% RH non-condensing

Dimensions

440 (W) x 200 (D) x 44 (H) mm (17.3 x 7.8 x 1.73 inches)
19-inch rack-mount width, 1 U height

Weight

2.8 kg (6.17 lb.)

Emission (EMI)

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

Safety

- CUL



Ordering Information

Ethernet/Fast Ethernet Switch with Gigabit connections

DES-1026G 24 10/100Mbps ports
2 10/100/1000Mbps 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.	TEL: 1-949-788-0805	FAX: 1-949-753-7033
Canada	TEL: 1-905-829-5033	FAX: 1-905-829-5095
Europe	TEL: 44-20-8731-5555	FAX: 44-20-8731-5511
U.K.	TEL: 44-20-8731-5555	FAX: 44-20-8731-5511
Germany	TEL: 49-61-96779900	FAX: 49-61-967799300
France	TEL: 33-1-30238688	FAX: 33-1-30238689
Benelux	TEL: 31-10-204-5740	FAX: 31-10-204-5880
Italy	TEL: 39-02-2900-0676	FAX: 39-02-2900-1723
Iberia	TEL: 34-93-4090770	FAX: 34-93-4910795
Sweden	TEL: 46-(0)8-564-61900	FAX: 46-(0)8-564-61901
Norway	TEL: 47-22-991890	FAX: 47-22-205700
Denmark	TEL: 45-43-969040	FAX: 45-43-424347
Finland	TEL: 358-9-2707-5080	FAX: 358-9-2707-5081
Singapore	TEL: 65-6774-6233	FAX: 65-6774-6322
Australia	TEL: 61-2-9417-7100	FAX: 61-2-9417-1077
Japan	TEL: 81-3-5434-9678	FAX: 81-3-5434-9868
China	TEL: 86-010-8518-2533	FAX: 86-010-8518-2250
India	TEL: 91-22-652-6996	FAX: 91-22-652-8914
Middle East	TEL: 202-6356176	FAX: 202-6356192
South America	TEL: 56-2-232-3185	FAX: 56-2-232-0923
Brazil	TEL: 55-11-3094-2910	FAX: 55-11-3094-2921
South Africa	TEL: 27(0)126652165	FAX: 27(0)126652186
Russia	TEL: 7-095-737-3389	FAX: 7-095-737-3390
Taiwan	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
D-Link Corp.	TEL: 886-2-2916-1600	FAX: 886-2-2914-6299



RECYCLABLE
Rev. 01 (Aug. 2002)
Printed in Taiwan