



DES-1016D

16 Ports

The DES-1016D switch provides 16 auto-sensing 10/100Mbps ports in a desktop box. The switch allows mix and match of Ethernet and Fast Ethernet in full- and half-duplex modes.

10/100Mbps Switch For Workgroups

The DES-1016D is an unmanaged 10/100Mbps switch designed to enhance workgroup performance while providing a high level of flexibility. Powerful yet easy to use, this device allows users to simply plug any port to either a 10Mbps or 100Mbps network to multiply bandwidths, boost response time and satisfy heavy load demands.

16 Auto-sensing 10/100Mbps Ports

The switch comes with 16 10/100Mbps ports, allowing a workgroup to flexibly connect to Ethernet and Fast Ethernet and integrate. These intelligent ports detect the network speed and auto-negotiate between 100BASE-TX and 10BASE-T, as well as between full- and half-duplex.

Flow Control for Secure Transmission

In the fast 200Mbps full-duplex mode, the switch's embedded flow control provides a means to protect users against possible data loss during transmission on the network. When connected to a LAN adapter (server PC) that supports flow control, the switch sends signals to the server regarding the switch's buffer overrun during peak usage periods. The server then delays transmission until the switch is ready again to accept new data.

Easy Expansion

An MDI uplink port supporting 10/100Mbps connection is provided, allowing the workgroup to easily expand. 2 switches can be cascaded together through this MDI uplink to increase the port density. Running at 200Mbps full-duplex speed, this port provides a fast switch-to-switch dedicated bandwidth.

Workgroup Plug-and-Play

With 16 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 servers in full-duplex, or to hubs in half-duplex.

Desktop Power

With low-cost connection per-port, the switch can also be set up for direct connection from the PCs. This relieves data bottleneck by giving each workstation a dedicated bandwidth on the network.

Key Features

- 16 10/100Mbps ports
- MDI uplink port for easy expansion
- All ports support full/half-duplex
- Dynamic buffer allocation for each port
- Auto-learning of network configuration
- IEEE 802.3x standard flow control for protection against data loss
- Secure store-and-forward switching scheme
- Auto-correction of reverse twisted-pair polarity
- Compact desktop size

10/100Mbps Unmanaged Switch



10/100Mbps Unmanaged Switch

Technical Specifications

General

Standards

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- ANSI/IEEE 802.3 NWay auto-negotiation

Protocol

CSMA/CD

Data Transfer Rates

- Ethernet:
 - 10Mbps (half-duplex)
 - 20Mbps (full-duplex)
- Fast Ethernet:
 - 100Mbps (half-duplex)
 - 200Mbps (full-duplex)

Topology

Star

Network Cables

- 10BASE-T:
 - 2-pair UTP Cat. 3 (100 m)
 - 4-pair UTP Cat. 4, 5 (100 m)
 - EIA/TIA-568 150-ohm screened twisted-pair (STP) (100 m)
- 100BASE-TX:
 - 4-pair UTP Cat. 5 (100 m)
 - EIA/TIA-568B 150-ohm screened twisted-pair (STP) (100 m)

Number of Ports

10/100Mbps port x 16

Media Interface Exchange

MDI RJ-45 x 1 (shared with 1 10/100Mbps port)

Twisted-pair Rx Reverse Polarity

Auto-correction

LED Report

Per device:

- Power

Per port:

- 10/100Mbps speed indicator
- Link/Activity

Performance

Transmission Method

Store-and-forward

Filtering Address Table

8K entries per device

MAC Address Learning

- Automatic update

Packet Filtering Rate

- 10BASE-T: 14,880 pps per port (half-duplex)
- 100BASE-TX: 148,800 pps per port (half-duplex)

Packet Forwarding Rates

- 10BASE-T: 14,800 pps per port (half-duplex)
- 100BASE-TX: 148,800 pps per port (half-duplex)

RAM Buffer

2MB per device

Physical & Environmental

AC Input

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

Power Consumption

24 watts (max.)

Operating Temperature

0° - 55° C
(32° - 131° F)

Storage Temperature

-25° - 55° C
(-13° - 131° F)

Humidity

5% - 95% non-condensing

Dimensions

324 x 231 x 44.5 mm
(12.75 x 9.09 x 1.75 inches)

Weight

2.6 kg (5.73 lb.)

Emission (EMI)

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

Safety

- UL (UL1950)
- CUL
- TUV/GS (EN60950)



Ordering Information

Ethernet/Fast Ethernet Switch
DES-1016D 16 10/100Mbps 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.



RECYCLABLE
Rev. 01 (Oct. 1999)
Printed in Taiwan
7DES1016D010

U.S.A.	TEL: 1-949-788-0805	FAX: 1-949-753-7033
Canada	TEL: 1-905-829-5033	FAX: 1-905-829-5223
Europe	TEL: 44-181-235-5555	FAX: 44-181-235-5500
U.K.	TEL: 44-181-235-5555	FAX: 44-181-235-5500
Germany	TEL: 49-(0)6192-97110	FAX: 49-(0)6192-97111
France	TEL: 33-1-30.23.86.88	FAX: 33-1-30.23.86.89
Italy	TEL: 39-2-2900-0676	FAX: 39-2-2900-1723
Sweden	TEL: 46-8-700.62.11	FAX: 46-8-21.96.40
Denmark	TEL: 45-43-96.90.40	FAX: 45-43-42.43.47
Singapore	TEL: 65-774-6233	FAX: 65-774-6322
Australia	TEL: 61-2-9417-7100	FAX: 61-2-9417-1077
Japan	TEL: 81-3-5434-9678	FAX: 81-3-5434-9868
China	TEL: 86-10-86822166	FAX: 86-10-68017990
India	TEL: 91-22-617-2478	FAX: 91-22-617-2476
Middle East	TEL: 202-2456176	FAX: 202-2456192
South America	TEL: 56-232-3185	FAX: 56-232-0923
Taiwan	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
D-Link Corp.	TEL: 886-2-2916-1600	FAX: 886-2-2914-6299

