



DES-1016D

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.

16-Port 10/100Mbps Switch for SOHO/Workgroup

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 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.

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

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 hubs in half-duplex.

Direct Connection to Workstations

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

Features

- 16 10/100Mbps ports
- Auto MDI/MDIX for each port
- Full/half-duplex support for each port
- Flow control for protection against data loss for each port
- Uto-learning of network configuration
- Secure store-and-forward switching scheme
- Per-port auto-correction of reverse twisted-pair polarity
- Compact desktop size

DES-1016D

Technical Specifications

10/100Mbps Unmanaged Switch

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:
 - UTP Cat. 3, 4, 5 (100 m)
 - EIA/TIA-568 100-ohm STP (100 m)
- 100BASE-TX:
 - UTP Cat. 5 (100 m)
 - EIA/TIA-568B 100-ohm STP (100 m)

Number of Ports

10/100Mbps port x 16

Media Interface Exchange

Auto MDI-II/MDI-X for each port

Twisted-pair Rx Reverse Polarity

Auto-correction for each port

Diagnostic LEDs

Per device:

- Power

Per port:

- Link/Activity
- Full-duplex/Collision
- 100Mbps speed

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)

Packet Forwarding Rates

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

RAM Buffer

4Mbits per device

Physical & Environmental

Power Supply

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

Power Consumption

6 watts (max.)

Ventilation

no DC fan required

Operating Temperature

0° - 40°C

Storage Temperature

-10° - 70°C

Humidity

5% - 90%

Dimensions

280 (W) x 180 (D) x 44 (H) mm

Weight

2.8 kg

Emission (EMI)

- FCC Class A
- CE Class A
- VCCI Class A

Safety

- CUL
- CB



Ordering Information

Ethernet/Fast Ethernet Switch

DES-1016D 16 10/100Mbps ports

D-Link®

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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
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: 47-22-207039
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
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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



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