D-Link®

——— DES-1005D

DES-1005D switch provides 5 auto-sensing 10/100Mbps ports in a palm-sized box. The switch allows mix and match of Ethernet and Fast Ethernet in full- and half-duplex modes.

5-Port 10/100Mbps Switch for SOHO

The DES-1005D is an unmanaged 10/100Mbps switch designed to enhance small 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.

5 Auto-sensing 10/100Mbps Ports

The switch comes with 5 10/100Mbps ports, allowing a small workgroup to flexibly connect to Ethernet ad 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

All ports support 802.3x flow control. This function minimizes dropped packets by sending out collision signals when the port's receiving buffer is full. Flow control is available in the full-duplex mode.

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.

SOHO Plug-and-Play

With 5 plug-and-play ports, the switch is a perfect choice for the small workgroup to upgrade performance in a client/server environment. The ports can be connected to servers in full-duplex, or 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.

10/100Mbps Network Kit

For network starters, a convenient kit is available for ready installation. This kit includes a DES-1005D switch, 2 10/100Mbps Fast Ethernet PCI cards, and 2 6-meter (20-foot) UTP cables.

Features

- *5 10/100Mbps ports*
- *Per-port auto MDI/MDIX*
- *All ports support full/half-duplex, network speed auto-negotiation*
- *Per-port 802.3x flow control for protection against data loss*

- *Auto-learning of network configuration*
- *Secure store-and-forward switching scheme*
- *Auto-correction of reverse twisted-pair polarity*
- *Compact palm-sized*

DES-1005D

Technical Specifications

General
Standards
- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- 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)

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 5

Twisted-pair Rx Reverse Polarity
Auto-correction

LED Report
Per device:
- Power
Per port:
- 10Mbps Link/Activity, 100Mbps Link/Activity
- Full-duplex 10/100Mbps, Collision 10/100Mbps

Performance
Transmission Method
Store-and-forward

Filtering Address Table
2K entries per device

MAC Address Learning
Automatic update

Buffer Memory
1Mbits per device

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

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

Physical & Environmental
Power Input
DC 7.5V/1A
Through external AC power adapter

Power Consumption
3.6 watts (max.)

Operating Temperature
0˚ - 50˚C

Storage Temperature
-10˚ - 70˚C

Operating Humidity
10% - 90%

Storage Humidity
5% - 90%

Dimensions
142 x 108 x 32 mm

Emission (EMI)
- FCC Class B
- CE Mark
- VCCI Class B

Ordering Information