



DES-1005F

5-Port 10/100Mbps Switch With 100BASE-FX Fiber Port

The DES-1005F is a powerful 5-port 10/100Mbps compact desktop switch that is an ideal choice for small workgroups. This switch allows users to simply plug any port to either a 10Mbps Ethernet or 100Mbps Fast Ethernet network for compatibility, convenience, and faster connection. This switch also provides a 100BASE-FX for a secure connection of a server on a fiber network cable.

Designed for SOHO

The DES-1005F comes in a small compact size designed for use by SOHO with easy installation and high performance. The switch eliminates unnecessary traffic and relieves data congestion by delivering dedicated bandwidth for each of the 5 ports.

4 10/100BASE-TX Ports for Plug and Play Connections

Each of the 4 10/100BASE-TX ports supports automatic MDI/MDIX detection, providing true plug and play capability without the need for confusing crossover cables or crossover ports. With the media auto-sensing feature, you can plug in the network cable to the switch directly without the need to worry if the end node is a NIC (Network Interface Card) or

switch/hub. The switch also supports flow control and auto-negotiation of half or full duplex transfer modes for each port.

100BASE-FX Fiber Port for Server Connection

The switch provides a fiber port capable of transferring data at long cable distance. This port can be used to connect to a server over the reliable fiber cable, or to attach the switch to the network fiber backbone.

Fast & Reliable Data Transfer

With 802.3x flow control support and fast store-and-forward switching scheme, the DES-1005F gives you secure data transfer with low data latency that prevents error packages from transmitting among segments.

Features

- Cost-effective packet switching network for SOHO
- 4 10/100BASE-TX ports for workstation connection
- 1 100BASE-FX port for fiber connection
- Auto MDI/MDIX for all twisted-pair ports
- Secure store-and-forward switching scheme
- Full/half-duplex support
- 802.3x flow control to minimize packet loss
- Plug-and-play installation
- Compact desktop size

DES-1005F

Technical Specifications

10/100Mbps Unmanaged Switch

General

Standards

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX/100BASE-FX 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

Device Ports

- 4 10/100BASE-TX ports
- 1 100BASE-FX port (SC connector)

Network Cables

- 10BASE-T:
 - 2-pair UTP Cat. 3, 4, 5 (100 m)
 - EIA/TIA-586 100-ohm STP (100 m)
- 100BASE-TX:
 - UTP Cat. 5 (100m max.)
 - EIA/TIA-568 100-ohm STP (100m max.)
- 100BASE-FX:
 - 62.5/125um multimode fiber (2km max.)

Full/half Duplex

- Full/half duplex for 10/100Mbps speeds
- Full/half duplex selection switch

Media Interface Exchange

Auto MDI/MDIX for all twisted-pair ports

LED Indicators

- Per port: 10Mbps, 100Mbps speed, Full Duplex/Collision
- Per device: Power

Performance

Transmission Method

Store-and-forward

MAC Address Table

1K 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

RAM Buffer

64KB per device

Physical & Environmental

DC Input

7.5 VDC 1 A

Power Supply

External power adapter

Power Consumption

3.9 watts (max.)

Operating Temperature

0° to 40 °C

Storage Temperature

-20° to 75 °C

Operating Humidity

10% to 90% non-condensing

Storage Humidity

5% to 90% non-condensing

Dimensions

142 (W) x 108.5 (D) x 32 (H) mm (device only)

Weight

223 grams

Emission (EMI)

- FCC Class B
- CE Class B
- C-Tick



Ordering Information

Fast Ethernet Switch With Fiber Port

DES-1005F

4 10/100BASE-TX ports, 1 100BASE-FX port

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