D-Link
Building Networks for People

## Product Highlights

**Eco-friendly and Economical**

Low-cost, innovative design runs reliably and quietly, saving energy and cutting costs without sacrificing connectivity

**High-speed Networking**

Fast Ethernet ports allow you to expand your newtrok and connect all your devices for quick file transfers and smooth media streaming

**Saves Energy**

Environmental features reduce energy consumption, cutting costs, while compliance certifications give you piece of mind




## DES-1016D and DES-1024D

# 16/24 Port 10/100 Switch

## Features

**Green features**

- IEEE802.3az EEE (Energy Efficient Ethernet)
- RoHS compliant

**Standards**

- IEEE 802.3 10BASE-T Ethernet (twisted-pair copper)
- IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper)
- IEEE 802.3az Energy-Efficient Ethernet (EEE)
- ANSI/IEEE 802.3 NWay auto-negotiation

**Versatile Support**

- Plug-and-play installation
- Full/half-duplex for Ethernet/Fast Ethernet speeds
- IEEE 802.3x Flow Control

With the D-Link 16/24 Port 10/100 Switch, you can easily expand your business or home network by adding more computers and devices, each achieving speeds up to 200 Mbps per port in full-duplex mode. Quickly and securely connect employees working in small offices with one another and with all of the servers, printers, and other devices they use. High performance and reliable connectivity help speed file transfers and data processing, improve network uptime, and keep your employees connected and productive.

## Expand and Upgrade Your Network

The DES-1016D and DES-1024D offers an economical way for SOHO and small to medium businesses (SMB) to benefit from high-speed networking. It provides twenty-four ports for easy expansion of your network and a quick way to upgrade your network to Fast Ethernet connectivity. The switches speed file transfer times, improve slow and sluggish networks, keep your vital business applications available, and help your employees respond more quickly to customers and each other

## Conserve Energy

The DES-1016D 16 Port 10/100 Switch helps you conserve energy through IEEE802.3az EEE, which works when both the switch and its link partner are EEE-compliant devices. This power-saving feature automatically puts the switch into a low-power idle state when the switch utilization is zero, allowing you to lower your energy usage and save on your energy costs.

## Designed with the Environment in Mind

The DES-1016D and DES-1024D use recyclable packaging that helps reduce waste, complying with the WEEE directive. It's innovatively designed to run cool and quiet without sacrificing performance

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# DES-1016D and DES-1024D 16/24 Port 10/100 Switch

## Technical Specifications

| | | |
|---|---|---|
| **General** | | |
| Standards | • IEEE 802.3 10BASE-T Ethernet (twisted pair copper)<br>• IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper) | • ANSI/IEEE 802.3 NWay auto-negotiation<br>• IEEE 802.3x flow control<br>• IEEE 802.3az EEE function |
| LAN | • IEEE 802.3 10BASE-T<br>• IEEE 802.3u 100BASE-TX compliance | • IEEE 802.3x Flow Control support |
| Data Transfer Rates | • Fast Ethernet<br>• 100 Mbps Half-Duplex<br>• 200 Mbps Full-Duplex | • Ethernet<br>• 10 Mbps Half-Duplex<br>• 20 Mbps Full-Duplex |
| **Fuctionality** | | |
| Port Packet Filtering/ Forwarding Rate | • 148,800 pps for 100 M | • 14,880 pps for 10 M |
| Swithing Fabric | • DES-1016D:<br>• 3.2 Gbps switching fabric | • DES-1024D:<br>• 4.8 Gbps switching fabric |
| Number of Ports | • DES-1016D:<br>• 16 10/100Mbps Fast Ethernet ports | • DES-1024D:<br>• 24 10/100Mbps Fast Ethernet ports |
| Network Cables | • 10BASE-T:<br>• UTP CAT 3/4/5/5e (100 m max.)<br>• EIA/TIA-586 100-ohm STP (100 m max.) | • 100BASE-TX<br>• UTP CAT 5/5e (100 m max.)<br>• EIA/TIA-568 100-ohm STP (100 m max.) |
| Media Interface Exchange | • Auto MDI/MDIX adjustment for all ports | |
| LED Indicators | • Per port:<br>• Link/Activity | • Per device:<br>• Power |
| Transmission Method | • Store-and-forward | |
| MAC Address Table | • 8K entries per device | |
| MAC Address Learning | • Automatic update | |
| Packet Filtering /Forwarding Rates | • Ethernet: 14,880 pps per port | • Fast Ethernet: 148,800 pps per port |
| Topology | • Star | |
| Protocol | • CSMA/CD | |
| **Physical** | | |
| Dimensions | • 282 x 150 x 44 mm (11.1 x 5.91 x 1.73 inches) | |
| Weight | • DE-1016D: 1.06 kg (2.34 lbs) | • DES-1024D: 1.14 kg (2.51 lbs) |
| Power Consumption | • DES-1016D<br>• Standard Power Consumption: 0.9 Watts<br>• Maximum Power Consumption: 2.1 Watts | • DES-1024D<br>• Standard Power Consumption: 1.17 Watts<br>• Maximum Power Consumption: 2.8 Watts |
| Heat Dissipation | • DES-1016D:<br>• Maximum Heat Dissipation: 7.1652 BTU/h | • DES-1024D:<br>• Maximum Heat Dissipation: 9.5536 BTU/h |
| MTBF | • DES-1016D: 492,096 hours | • DES-1024D: 810,880 hours |
| Temperature | • Operating: 0 to 40 °C (32 to 104 °F) | • Storage: -10 to 70 °C (14 to 158 °F) |
| Humidity | • Operating: 10% to 90% non-condensing | • Storage: 5% to 90% non-condensing |

# DES-1016D and DES-1024D 16/24 Port 10/100 Switch

| | | |
|---|---|---|
| Certifications | • CE<br>• FCC<br>• ICES-003<br>• BSMI<br>• RCM | • CCC<br>• VCCI<br>• cUL<br>• CB<br>• LVD |

## Order Information

| *Part Number* | *Description* |
|---|---|
| DES-1016D and DES-1024D | 16/24 Port 10/100 Switch |

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