D-Link®
Building Networks for People

DES-1016A
16-port 10/100 Switch

Features

Expand your Network
- D-Link Green Technology
- Sixteen 10/100 Mbps Fast Ethernet ports
- 3.2 Gbps switching fabric

Superior Performance
- Auto MDI/MDIX crossover for all ports
- Secure store-and-forward switching scheme
- Full/half-duplex for Ethernet/Fast Ethernet speeds
- EEE 802.3x Flow Control

Complies with Energy Standards
- IEEE 802.1P QoS support
- 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
- IEEE 802.3x Flow Control

The DES-1016 16-port 10/100 Switch offers an economical way for small offices, homes, (SOHO) and small to medium businesses (SMB) to benefit from fast speed networking. It provides sixteen 10/100 ports for easy expansion of your network and a quick way to upgrade your network to Fast Ethernet connectivity.

Fast Connectivity that Saves Energy

The DES-1016 16-port 10/100 Switch helps you conserve energy automatically through several methods. It automatically powers down ports that have no link, allowing the switch to save substantial amounts of power by cutting power usage for unused ports or ports connected to computers that have been shut down. The switch also conserves energy by adjusting power

Eco-friendly and Economical

The D-Link DES-1016 16-port 10/100 Switch is part of D-Link's new series of SOHO devices that make use of D-Link's Green Technology, providing energy savings, reduced heat, and a longer product life without sacrificing performance or functionality. An energy-efficient power adapter (EnergyStar Level V qualified), minimized use of harmful substances (RoHS compliant), and recyclable packaging make this switch truly environmentally friendly..

Designed with the Environment in Mind

The DES-1016 was designed with the environment in mind, and is compliant with Energy Star Level V, as well as with the stringent CEC and MEPS regulations that require the use of energy efficient power adapters. The switch is also built to follow RoHS standards to minimize use of hazardous materials, and uses recyclable packaging that helps reduce waste, complying with the WEEE directive.

Technical Specifications

General

Key Features	• D-Link Green Technology • 3.2 Gbps switching fabric	• Sixteen 10/100 Mbps Fast Ethernet ports • Auto MDI/MDIX crossover for all ports
Standards	• IEEE 802.1P QoS support • 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 • IEEE 802.3x Flow Control

Functionality

Data Transfer Rates	• Ethernet: • 10 Mbps (half duplex) • 20 Mbps (full duplex)	• Fast Ethernet: • 100 Mbps (half duplex) • 200 Mbps (full duplex)
Network Cables	• 10BASE-T: • UTP CAT 3, 4, 5/5e (100 m max.) • EIA/TIA-586 100-ohm STP (100 m max.)	• 100BASE-TX, 1000BASE-T: • UTP CAT 5/5e (100 m max.) • EIA/TIA-568 100-ohm STP (100 m max.)
LED Indicators	• Per port: Link/Activity/Speed	• Per device: Power
Packet Filtering/Forwarding Rates	• Ethernet: 14,880 pps per port	• Fast Ethernet: 148,800 pps per port
Media Interface Exchange	• Auto MDI/MDIX adjustment for all ports	
Transmission Method	• Store-and-forward	
RAM Buffer	• 256 KBytes per device	
Protocol	• CSMA/CD	

Physical

Dimensions	• 155.7 x 122 x 41 mm (6.13 x 4.80 x 1.61 inches)	

Power	• Power on (Standby):
	  • Ac input: 1.79 watts
	  • Dc input: 1.0 watts
		• Maximum:
		  • AC input: 2.28 watts
		  • DC input: 1.25 watts

Temperature	• Operating: 0 to 40 ˚C (32 to 104 ˚F)	• Storage: -10 to 70 ˚C (14 to 158 ˚F)
Humidity	• 10% to 90% RH non-condensing	• Storage 5% to 90% RH non-condensing
Certifications	• CE Class B • FCC class B • CB	• RoHS • EuP

Order Information

Part Number	*Description*
DES-1016A	16-port 10/100 Switch