D-Link®

BUILD YOUR OWN GREEN NETWORK

dlink green™

16-PORT 10/100 SWITCH

ECO-FRIENDLY AND ECONOMICAL
Economical yet innovative design runs cool and quiet

HIGH SPEED NETWORKING
Fast Ethernet ports allow you to connect all your devices for fast file transfers and smooth media streaming

SAVES ENERGY AUTOMATICALLY
EEE compliance reduces energy consumption without sacrificing performance

THINK GREEN
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.

CONSERVES 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 usage according to different cable lengths of connected devices without affecting performance.
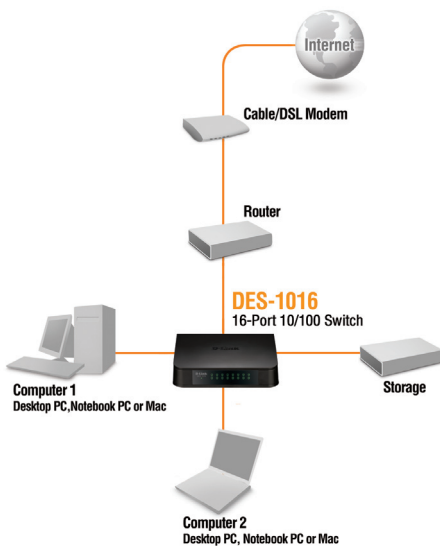
ENVIRONMENTALLY FRIENDLY
The DES-1016 was designed with the environment in mind, and is compliant with Energy Star Level V, as well as with the stringent CEC and MEPS regulations that require the use of energy efficient power adapters. The switch is also built to follow RoHS standards to minimize use of hazardous materials, and uses recyclable packaging that helps reduce waste, complying with the WEEE directive.

WIRED | FAST ETHERNET

16-PORT 10/100 SWITCH
DES-1016

WHAT THIS PRODUCT DOES

The DES-1016 16-port 10/100 Switch offers an economical way for 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.

YOUR NETWORK SETUP

TECHNICAL SPECIFICATIONS

KEY FEATURES
- Built-in D-Link Green Technology
- Inexpensive Fast Ethernet solution for Home/SOHO
- Sixteen 10/100 Mbps Fast Ethernet ports
- 3.2 Gbps switching fabric
- Auto MDI/MDIX crossover for all ports
- Secure store-and-forward switching scheme
- Full/half-duplex for Ethernet/Fast Ethernet speeds
- IEEE 802.3x Flow Control
- Supports 9,216 Byte Jumbo Frames
- RoHS compliant
- Plug-and-play installation

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

PROTOCOL
- CSMA/CD

DATA TRANSFER RATES
- Ethernet:
  - 10 Mbps (half duplex)
  - 20 Mbps (full duplex)
- Fast Ethernet:
  - 100 Mbps (half duplex)
  - 200 Mbps (full duplex)

TOPOLOGY
- Star

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.)

MEDIA INTERFACE EXCHANGE
- Auto MDI/MDIX adjustment for all ports

LED INDICATORS
- Per port: Link/Activity/Speed
- Per device: 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

RAM BUFFER
- 256 KBytes per device

DC INPUT
- Switching 5 V / 1 A Level "V" Power Adapter

POWER CONSUMPTION
- Power On (Standby):
  - AC input: 2.36 watts
  - DC input: 1.2 watts
- Maximum:
  - AC input: 2.69 watts
  - DC input: 1.6 watts

OPERATING TEMPERATURE
- 0 to 40 ˚C (32 to 104 ˚F)

STORAGE TEMPERATURE
- -10 to 70 ˚C (14 to 158 ˚F)

OPERATING HUMIDITY
- 10% to 90% RH non-condensing

STORAGE HUMIDITY
- 5% to 90% RH non-condensing

DEVICE DIMENSIONS (W x D x H)
- 155.7 x 122 x 41 mm (6.13 x 4.80 x 1.61 inches)

CERTIFICATIONS
- CE Class B
- FCC class B
- CB
- RoHS
- EuP

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