16-PORT 10/100 SWITCH

SILENT OPERATION
Fanless design allows the switch to operate noise-free while maintaining stability

INTELLIGENT DATA STREAMING
QoS support provides users with a smooth Internet connection for VoIP calls, Internet gaming, and multimedia streaming

VERSATILE INSTALLATION
Place on your desktop or use the included rack mounting kit to mount in various locations

EXPAND YOUR NETWORK
With the D-Link DES-1016E 16-Port 10/100 Switch, you can easily expand your home or office network by connecting additional computers or devices. Each of the ports on the switch is capable of speeds of up to 200 Mbps in full-duplex mode, allowing you to expand your network with high speed connections.

AUTO-SENSING 10/100 PORTS
The DES-1016E uses auto-sensing 10/100 Mbps ports, allowing a small workgroup to flexibly connect to Ethernet and Fast Ethernet devices to create an integrated network. These ports detect the network speed and auto-negotiate between 10BASE-T and 100BASE-TX, as well as between full and half-duplex, allowing you to get the maximum speed possible for each device connected to your network.

FLOW CONTROL FOR SECURE TRANSMISSION
When a port reaches its receiving buffer capacity, the 802.3x flow control feature will activate and minimize the number of dropped packets. When the number of dropped packets is minimized, the switch will be able to provide a more reliable connection f or all of your connected devices.
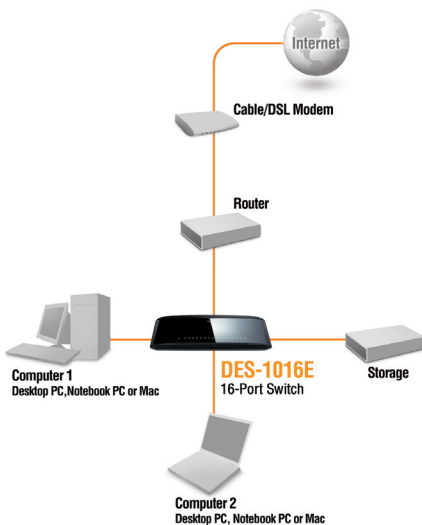
QUALITY OF SERVICE (QoS)
Quality of Service (QoS) allows the DES-1016E to support priority queues, which enables home and office users to experience the benefit of a smooth network connection without having to worry about network congestion, thus allowing users to enjoy their high speed Internet connection when gaming and streaming multimedia.

WHAT THIS PRODUCT DOES

The DES-1016E 16-Port 10/100 Switch offers an economical way for both home/SOHO and small to medium businesses (SMB) to benefit from high-speed networking. It provides 16 10/100 ports for an easy expansion of your network and a quick way to upgrade your network to Fast Ethernet connectivity.

YOUR NETWORK SETUP

Internet

Cable/DSL Modem

Router

Computer 1
Desktop PC,Notebook PC or Mac

DES-1016E
16-Port Switch

Storage

Computer 2
Desktop PC, Notebook PC or Mac

TECHNICAL SPECIFICATIONS

KEY FEATURES
- Inexpensive Fast Ethernet solution for SOHO/SMB
- Auto MDI/MDIX crossover for all ports
- Store-and-forward switching scheme
- Full/half-duplex for Ethernet/Fast Ethernet speeds
- IEEE 802.3x Flow Control
- Plug-and-play installation

SWITCHING FABRIC
- 3.2 Gbps switching fabric

STANDARDS
- IEEE 802.3 10BASE-T Ethernet (twisted-pair copper)
- IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper)
- 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)

DEVICE INTERFACES
- 16 x 10/100 Mbps Fast Ethernet ports

TOPOLOGY
- Star

NETWORK CABLE REQUIREMENTS
- 10BASE-T:
  - UTP CAT 3/4/5/5e (100 m maximum)
  - EIA/TIA-586 100-ohm STP (100 m maximum)
- 100BASE-TX
  - UTP CAT 5/5e (100 m maximum)
  - EIA/TIA-568 100-ohm STP (100 m maximum)

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

LED INDICATORS
- Power
- Link/Activity (1-16)

TRANSMISSION METHOD
- Store-and-forward

MAC ADDRESS TABLE
- 8K entries

MAC ADDRESS LEARNING
- Automatic update

PACKET FILTERING/FORWARDING RATES (HALF DUPLEX)
- Ethernet: 14,880 pps per port
- Fast Ethernet: 148,800 pps per port

RAM BUFFER
- 256 KBytes (2 Mbits)

POWER INPUT
- 120 V AC 50/60 Hz internal universal power supply

POWER CONSUMPTION
- Power on (Standby):
  - DC input: 0.89 watts
  - AC input: 1.53 watts
- Maximum:
  - AC input: 2.74 watts

HEAT DISSIPATION
- Power on (Standby):
  - AC input: 5.22 BTU/h
- Maximum:
  - AC input: 9.35 BTU/h

MTBF
- 1,692,137 hours

OPERATING TEMPERATURE
- 0 to 40 ˚C (32 to 122 ˚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

DIMENSIONS (W X D X H)
- 280 x 120 x 33.8 mm (11.0 x 4.8 x 1.4 inches)

CERTIFICATIONS
- FCC Class B
- ICES-003 Class B
- CE Class B
- VCCI Class B
- C-Tick Class B
- cUL
- LVD