16/24-PORT 10/100 SWITCH

SILENT OPERATION
The fanless design allows for noise-free operation

DESKTOP OR RACK MOUNT
Use on your desktop, or use the included rack mounting kit

INTELLIGENT DATA STREAMING
QoS support provides clear VoIP calls and smooth online gaming

IDEAL FOR BASIC NETWORKING TASKS
With the D-Link DES-1016D and DES-1024D, you can easily expand your network by adding more computers or devices with speeds up to 200 Mbps per port in full-duplex mode.

AUTO-SENSING 10/100 PORTS
The DES-1016D and DES-1024D both use auto-sensing 10/100 Mbps ports, allowing a small workgroup to flexibly connect to 10 or 100 Mbps devices to create an integrated network. Each port automatically adjusts for straight-through or crossover cables to make the right link.

FLOW CONTROL FOR SECURE TRANSMISSION
802.3x flow control on each port minimizes dropped packets when the port's receiving buffer is full.
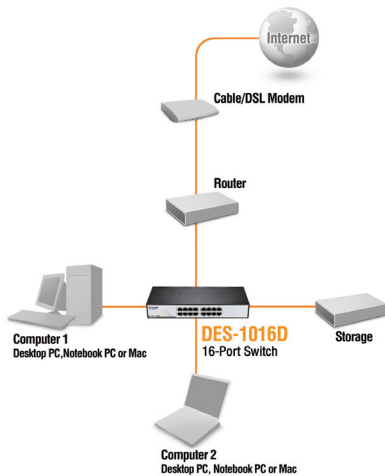
QUALITY OF SERVICE (QoS)
The switches provide 802.1p priority queues for QoS, allowing users to run bandwidth-sensitive applications such as multimedia and VoIP Internet telephone without data flow bottlenecks that can degrade the quality of the network connection.

SAVE ON ENERGY COSTS
The switches support IEEE802.3az EEE which enables the switches to reduce power consumption when the switches are at low utilization, allowing users to save on power usage and costs. During these periods of low utilization, the switches can enter a low-power state and use up less power than regular operations.

YOUR NETWORK SETUP

Internet

Cable/DSL Modem

Router

DES-1016D
16-Port Switch

Computer 1
Desktop PC,Notebook PC or Mac

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
- *DES-1016D:*
  - *3.2 Gbps switching fabric*
- *DES-1024D:*
  - *4.8 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*
- *IEEE 802.3az EEE function*

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)*

NUMBER OF PORTS
- *DES-1016D:*
  - *16 10/100Mbps Fast Ethernet ports*
- *DES-1024D:*
  - *24 10/100Mbps Fast Ethernet ports*

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*
  - *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*
- *Per device:*
  - *Power*

TRANSMISSION METHOD
- *Store-and-forward*

MAC ADDRESS TABLE
- *8K entries per device*

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
- *DES-1016D: 256 Bytes (2M bits)*
- *DES-1024D: 256 Bytes (2M bits)*

POWER INPUT
- *100~240 V AC 50/60 Hz internal universal power supply*

POWER CONSUMPTION
DES-1016D
Power On (Standby):
- *DC input: 0.61 Watts*
- *AC input: 1.19 Watts*
Max.:
- *DC input: 1.55 Watts*
- *AC input: 2.89 Watts*

DES-1024D
Power On (Standby):
- *DC input: 1.18 Watts*
- *AC input: 2.09 Watts*
Max.:
- *DC input: 2.72 Watts*
- *AC input: 4.14 Watts*

HEAT DISSIPATION
DES-1016D
Power On (Standby):
- *AC input: 4.06 BTU/h*
Maximum:
- *AC input: 9.86 BTU/h*
DES-1024D
Power On (Standby):
- *AC input: 7.13 BTU/h*
Maximum:
- *AC input: 14.13 BTU/h*

MTBF
- *DES-1016D: 2,266,559 hours*
- *DES-1024D: 2,058,943 hours*

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*

DIMENSIONS (W X D X H)
- *280 x 125.8 x 44 mm (11.0 x 5.0 x 1.7 inches)*

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

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