



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.

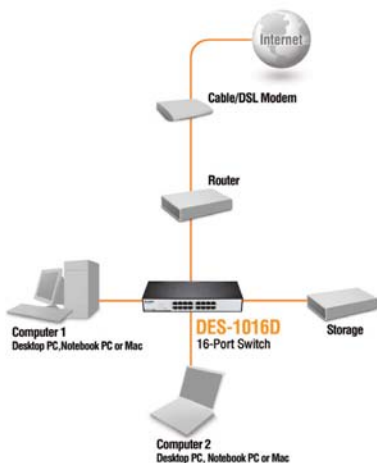
QUALITY OF SERVICE (QoS)

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



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-568 100-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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