



## 16/24-PORT 10/100 SWITCH

### **SILENT OPERATION**

Fanless design provides 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 100Mbps devices to create an integrated network. Each port automatically adjusts for straight-through or crossover cables to make the right link.

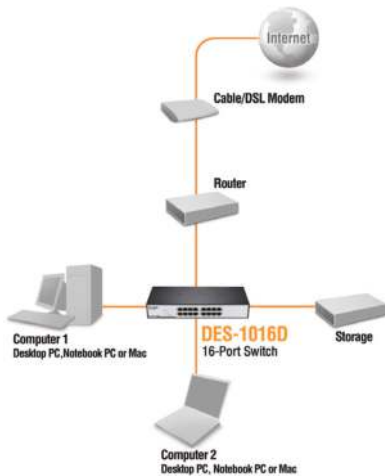
### **FLOW CONTROL FOR SECURE TRANSMISSION**

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 multi-media and VoIP Internet telephone without data flow bottlenecks that can degrade the quality of the network connection.

### 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

#### 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: 256K Bytes (2M bits)
- DES-1024D: 320K Bytes (2.5M bits)

#### POWER INPUT

- 100-240V AC 50/60 Hz internal universal power supply

#### POWER CONSUMPTION

##### DES-1016D

- Power On (Standby):
  - DC input: 1.4 Watts
  - AC input: 1.6 Watts

##### Max.:

- DC input: 1.6 Watts
- AC input: 2.3 Watts

##### DES-1024D

- Power On (Standby):
  - DC input: 1.0 Watts
  - AC input: 1.4 Watts

##### Max.:

- DC input: 4.6 Watts
- AC input: 6.1 Watts

#### HEAT DISSIPATION

##### DES-1016D

- Power On (Standby):
  - AC input: 5.46 BTU/h
- Max.:
  - AC input: 7.68 BTU/h

##### DES-1024D

- Power On (Standby):
  - AC input: 4.5 BTU/h
- Max.:
  - AC input: 20.78 BTU/h

#### MTBF

- DES-1016D: 840,221 hours
- DES-1024D: 626,992 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 85% RH non-condensing

#### STORAGE HUMIDITY

- 10% 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



#### D-Link Corporation

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