

## 16/24-Port 10/100Mbps Unmanaged Ethernet Switch

### With Priority Queue QoS

- 16 or 24 10/100Mbps Ethernet Ports
- Ideal for SOHO and Workgroup Deployment
- IEEE 802.1p QoS Support
- Solid Desk Metal Case

#### FEATURES

- **16 or 24 10/100BASE-TX Ethernet Ports**
- **16-Port Switch With 3.2Gbps Switch Capacity**
- **24-Port Switch With 4.8Gbps Switch Capacity**
- **802.1p QoS Support (2 Queues)**
- **Auto MDI/MDIX for Each Port**
- **Full/Half-Duplex Support for Each Port**
- **802.3x Flow Control Per Port for Data Loss Protection**
- **Secure Store-and-Forward Switching Scheme**
- **Solid Desk Metal Case**
- **Brackets Provided for Mounting in Standard 19-Inch Equipment Rack**

The DES-1016D and DES-1024D are unmanaged 10/100Mbps Ethernet switches designed for cost-effective SOHO and workgroup connection. Equipped with 16 and 24 10/100Mbps ports in a solid metal desktop case, these switches provide low-cost connections for workstations on the twisted-pair network cables.

16/24 Plug-and-Play Desktop Connections. With 16 and 24 10/100BASE-TX ports supporting auto-sensing speeds and auto MDI/MDIX plug-and-play, these switches provide easy, low-cost connection for desktop computers.

*Flow Control for Secure Transmission.* The switch provides 802.3x standard flow control to minimize dropped packets. It does this by sending out collision signals when the port's receiving buffer is full. This function support allows you to safely deploy servers operating at 200Mbps full duplex mode for simultaneous access from workstations with minimal risk of data loss.

*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.



## Technical Specifications

### General

#### Standards

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- ANSI/IEEE 802.3 NWay auto-negotiation
- IEEE 802.3x Flow Control
- IEEE 802.1p

#### Number of Ports

- DES-1016D: 16 10/100BASE-TX ports with auto MDI/MDIX
- DES-1024D: 24 10/100BASE-TX ports with auto MDI/MDIX

### Full/Half Duplex Support

- Ethernet/Fast Ethernet: full/half duplex

### Flow Control

- Half duplex mode: back pressure
- Full duplex mode: 802.3x flow control

### LED Report

Per device:

- Power

Per port:

- Link/Act
- 10/100Mbps Speed
- Full Duplex/Collision (for DES-1016D only)

## Performance

### Switch Fabric

- DES-1016D: 3.2Gbps
- DES-1024D: 4.8Gbps

### Transmission Method

Store-and-forward

### MAC Address Table

- DES-1016D: 8K entries per device
- DES-1024D: 8K entries per device

### MAC Address Learning

Automatic update

### RAM Buffer

- DES-1016D: 160KBytes
- DES-1024D: 160KBytes

### Packet Filtering/Forwarding Rate

- 10BASE-T: 14,880 pps per port
- 100BASE-TX: 148,809 pps per port

### QoS

IEEE 802.1p QoS support (2 queues)

## Physical & Environmental

### Power Input

- 100 to 240 VAC, 50/60 Hz
- Internal universal power supply

### Dimensions (W x D x H)

280 x 180 x 44 mm (11 x 7.09 x 1.73 inches)

### 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% non-condensing

### Storage Humidity

5% to 90% non-condensing

### Emission (EMI)

- FCC Class A
- ICES-003 Class A
- CE Class A
- VCCI Class A
- C-Tick Class A

### MTBF

- DES-1016D: 47,220 hours
- DES-1024D: 32,274 hours

### Safety

CUL

### Power consumption

6.8 Watts



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