



DES-1048G

## 48-Port 10/100Mbps Switch

### With 2 Built-in Fiber Gigabit Connections

The DES-1048G is a high port-density unmanaged 10/100Mbps switch designed for cost-effective workgroup connection. With 48 10/100Mbps ports and 2 SFP in a low-profile rack-mountable box, this switch provides very low-cost connections for 48 workstations, plus 2 flexible Gigabit connections to 2 servers.

#### 48 Plug-and-Play Desktop Connections

With 48 10/100BASE-TX ports supporting auto-sensing speeds and auto MDI/MDIX plug-and-play, the DES-1048G provides easy connection for 48 desktop users at a very low cost, allowing a workgroup to multiply bandwidths, boost response time and satisfy heavy load demands.

#### 2 SFP for Flexible Gigabit Connection

The switch provides 2 SFP (mini GBIC) for flexible Gigabit connection. You can select to install an optional fiber Gigabit transceiver in the SFP slots for server connection, switch cascading or network backbone attachment.

#### Flow Control for Secure Transmission

802.3x standard flow control minimizes dropped packets by sending out collision signals when the port's receiving buffer is full. This function support allows you to deploy Gigabit servers operating at 2000Mbps full duplex mode for simultaneous access from workstations.

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### Key Features

- 48 10/100BASE-TX Ethernet ports for workstation connections
- 2 SFP for flexible Gigabit connections
- Auto MDI/MDIX for each port
- Full/half-duplex support for each port
- Flow control for protection against data loss for each port
- Secure store-and-forward switching scheme
- Standard 19-inch rack-mount size

# DES-1048G

## Technical Specifications

## 10/100Mbps Unmanaged Switch

### General

#### Standards

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- IEEE 802.3z 1000BASE-SX/LX SFP
- ANSI/IEEE 802.3 NWay auto-negotiation
- IEEE 802.3x Flow Control

#### Number of Ports

- 48 10/100BASE-TX ports
- 2 SFP

#### LED Report

- Per device:
- Power
- Per port:
- Link/Act

### Performance

#### Switch Fabric

13.6Gbps

#### Transmission Method

Store-and-forward

#### MAC Address Table

8K entries per device

#### MAC Address Learning

Automatic update

#### Buffer Memory

2MBbytes per device

#### Packet Filtering/Forwarding Rates

- 10BASE-T: 14,880 pps per port
- 100BASE-TX: 148,809 pps per port
- Gigabit: 1,488,090 pps per port

### Physical & Environmental

#### Power Input

100 to 120; 200 to 240 VAC, 50/60 Hz  
Internal universal power supply

#### Power Consumption

24 watts (max.)

#### Operating Temperature

0° to 40 °C

#### Storage Temperature

-25° to 55 °C

#### Operating Humidity

5% to 95%

#### Storage Humidity

0% to 95%

#### Dimensions

441 (W) x 309 (D) x 44 (H) mm (device only)  
19-inch rack-mount width, 1 U height

#### Emission (EMI)

FCC Class A  
CE Class A

#### Safety

CSA International



## Ordering Information

#### Fast Ethernet Switch

**DES-1048G** 48 10/100BASE-TX ports, 2 SFP

#### Optional SFP Transceiver

**DEM-310GT** SFP transceiver for 1000BASE-LX, single-mode fiber, max. distance 10km, 3.3V  
**DEM-311GT** SFP transceiver for 1000BASE-SX, multi-mode fiber, max. distance 550m, 3.3V  
**DEM-314GT** SFP transceiver for 1000BASE-LHX, single-mode fiber, max. distance 50km, 3.3V  
**DEM-315GT** SFP transceiver for 1000BASE-ZX, single-mode fiber, max. distance 80km, 3.3V

# D-Link®

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