# D-Link®

DES-1026G

The DES-1026G switch provides 24 auto-sensing 10/100Mbps ports and 2 10/100/1000Mbps copper Gigabit ports in a rack-mount box. The switch allows mix and match of Ethernet, Fast Ethernet and Gigabit in full- and half-duplex modes.

# 24-port 10/100Mbps Switch With 2 Built-in Copper Gigabit Connections

*The DES-1026G is an unmanaged 10/100Mbps switch designed to enhance workgroup performance while providing a high level of flexibility. It provides 24 10/100Mbps ports for workstation connection, plus 2 copper Gigabit ports for server deployment, allowing a workgroup to multiply bandwidths, boost response time and satisfy heavy load demands.*

### 24 10/100Mbps Ports for Workstation Connection
The switch comes with 24 10/100Mbps ports, allowing a small workgroup to flexibly integrate to Ethernet and Fast Ethernet. These intelligent ports detect the network speed and auto-negotiate between 100BASE-TX and 10BASE-T, as well as between full and half-duplex.

### 2 Copper Gigabit Ports for Server Connection
2 copper Gigabit ports provide an inexpensive alternative solution to fiber-optic. Using your existing low-cost Cat. 5 copper twisted-pair wires as the transmission media, these ports allow you to instantly upgrade your servers to Gigabit capability without requiring you to install new, expensive fiber cables. Both ports support 10/100/1000Mbps network speed auto-sensing and full/half duplex auto-negotiation.

### Flow Control for Secure Transmission
All ports support flow control. This function minimizes dropped packets by sending out collision signals when the port's receiving buffer is full.

### Auto-negotiation of MDI/MDIX Cross Over
All ports support auto-negotiation of MDI/MDIX cross over. This eliminates the need for cross over cables or uplink ports. Any port can simply plug to a workstation, a server, a hub or a switch, using the usual straight-through twisted-pair cable.

### Plug-and-Play
With 26 plug-and-play ports, the switch is a perfect choice for workgroups to upgrade performance in a client/server environment. The ports can be connected to workstations and servers in full-duplex, or hubs in half-duplex.

## Features

- *24 10/100Mbps Fast Ethernet ports*
- *2 10/100/1000Mbps copper Gigabit ports*
- *Auto MDI/MDIX for each port*
- *Full/half-duplex support for each port*
- *Flow control for protection against data loss for each port*

- *Auto-learning of network configuration*
- *Secure store-and-forward switching scheme*
- *Per-port auto-correction of reverse twisted-pair polarity*
- *Standard 19-inch rack-mount size*
- *Non-Blocking and wire speed*

# DES-1026G

## Technical Specifications

### General

**Standards**
- IEEE 802.3 10BASE-T Ethernet (twisted-pair copper)
- IEEE 802.3u 100BASE-TX Fast Ethernet (twisted-pair copper)
- IEEE 802.3ab 1000BASE-T Gigabit Ethernet (twisted-pair copper)
- ANSI/IEEE 802.3 NWay auto-negotiation
- IEEE 802.3x Flow Control

**Protocol**
CSMA/CD

**Data Transfer Rates**
- Ethernet:
  10Mbps (half-duplex)
  20Mbps (full-duplex)
- Fast Ethernet:
  100Mbps (half-duplex)
  200Mbps (full-duplex)
- Gigabit Ethernet:
  2000Mbps (full duplex)

**Topology**
Star

**Network Cables**
- 10BASE-T:
  UTP Cat. 3, 4, 5 (100 m max.)
  EIA/TIA-586 100-ohm STP (100 m max.)
- 100BASE-TX, 1000BASE-T:
  UTP Cat. 5, Cat. 5e (100 m max.)
  EIA/TIA-568 100-ohm STP (100 m max.)

**Number of Ports**
- 10/100Mbps port x 24
- 10/100/1000Mbps port x 2

**Media Interface Exchange**
Auto MDI/MDI-X for each port

**Twisted-pair Rx Reverse Polarity**
Auto-correction for each port

**Status/Diagnostic LEDs**
Per device:
- Power
Per port:
- Link/Activity
- 100Mbps speed (10/100Mbps ports)
- 100Mbps, 1000Mbps speeds (10/100/1000Mbps ports)

### Performance

**Transmission Method**
Store-and-forward

**Switch Fabric**
- Non-blocking
- 8.8Gbps

**Filtering Address Table**
8K entries per device

**MAC Address Learning**
Automatic update

**Packet Filtering 1 Forwarding Rates**
- 10BASE-T: 14,880 pps per port (half-duplex)
- 100BASE-TX: 148,810 pps per port (half-duplex)
- Gigabit Ethernet: 1,488,100 pps per port

**RAM Buffer**
320KBytes per device

### Physical & Environmental

**Power Supply**
100 - 240 VAC
Internal universal power supply

**Power Consumption**
9.8 watts

**MTBF**
409,781 hours

**Ventilation**
No fan

**Operating Temperature**
0°-40°C (32°-104°F)

**Storage Temperature**
-10°-70°C (12°-158°F)

**Humidity**
5% - 95% RH non-condensing

**Dimensions**
440 (W) x 140 (D) x 44 (H) mm (17.32 x 5.51 x 1.73 inches)
19-inch rack-mount width, 1 U height

**Weight**
2.8 kg (6.17 lb.)

**Emission (EMI)**
- FCC Class A
- CE Class A
- VCCI Class A
- C-Tick

**Safety**
- cUL

### Ordering Information

**Ethernet/Fast Ethernet Switch with Gigabit connections**
**DES-1026G**      24 10/100Mbps ports
                   2 10/100/1000Mbps ports