



18/24-Port 10/100Mbps Switches With Copper Gigabit Ports

The DES-1018DG and DES-1024DG are high port-density 10/100Mbps desktop switches that provide cost-effective Ethernet connections to desktop computers with providing Gigabit uplinks to servers. Each provides 16 or 22 10/100BASE-TX Ethernet ports and 2 1000BASE-T copper Gigabit ports in a low-profile desktop housing. With plug-and-play installation and copper Gigabit port capable of connecting to your existing Cat. 5 twisted-pair network cable, these switches instantly enhance your workgroup's performance without requiring you to install expensive fiber cables or go through complex configuration.

High Port Density With 16 or 22 Ethernet Ports

The switch comes with 16 10/100Mbps ports (DES-1018DG) or 22 10/100Mbps ports (DES-1024DG), allowing a 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 Gigabit Over Copper Twisted-pair Ports

2 1000BASE-T Gigabit ports provide an inexpensive alternative to fiber-optic. Using your existing Cat. 5 copper twisted-pair wires as the transmission media, these ports allow you to instantly upgrade your server to Gigabit capability without requiring you to install new, expensive fiber cables.

Full-duplex Gigabit Server Access

The Gigabit port provides a dedicated bandwidth for your server running at 2000Mbps full-duplex. This gives workstations a bottleneck-free path to simultaneously access server data.

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 or another switch, using the usual straight-through twisted-pair cable.

Low-Cost Desktop Connections

With low-cost connection per-port, these switches are ideal for desktop connections from the PCs. The switches relieve data bottleneck by giving each workstation a dedicated bandwidth on the network.

Key Features

- 16 10/100BASE-TX Ethernet ports (DES-1018DG), 22 10/100BASE-TX Ethernet ports (DES-1024DG)
- 2 10/100/1000BASE-T 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
- Desktop size

DES-1018DG & DES-1024DG

Technical Specifications

10/100Mbps Unmanaged Switch

General

Device Ports

- DES-1018D: 16 10/100BASE-TX ports, 2 10/100/1000BASE-T ports
- DES-1024D: 22 10/100BASE-TX ports, 2 10/100/1000BASE-T ports

Port Standards & Functions

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- ANSI/IEEE 802.3 NWay auto-negotiation
- 802.3x Flow Control in full duplex
- Backpressure for half duplex

Protocol

CSMA/CD

Data Transfer Rates

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

Topology

Star

Network Cables

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

Media Interface Exchange

Auto MDI/MDIX for each port

Diagnostic LEDs

Per device:

- Power

Per 10/100Mbps port:

- Link/Activity
- 10/100Mbps speed

Per Gigabit port:

- Link/Activity
- 100/1000Mbps speed

Performance

Switch Fabric

- DES-1018DG: 7.2Gbps
- DES-1024DG: 8.4Gbps

Transmission Method

Store-and-forward

Filtering Address Table

8K entries per device

MAC Address Learning

Automatic update

RAM Buffer

- DES-1018DG: 2.5Mbits per device
- DES-1024DG: 2.5Mbits per device

Physical & Environmental

DC Input

5VDC, 3A

Power Supply

Through external power adapter

Power Consumption

- DES-1018DG: 9.25 watts (max.)
- DES-1024DG: 10.55 watts (max.)

Dimensions

- DES-1018DG: 225 (W) x 161.9 (D) x 46 (H) mm (device only)
- DES-1024DG: 225 (W) x 161.9 (D) x 46 (H) mm (device only)

Weight

- DES-1018DG: 0.67 kg (device only)
- DES-1024DG: 0.7 kg (device only)

Operating Temperature

0° to 40°C

Storage Temperature

-10° to 70°C

Operating Humidity

10% to 90% RH

Storage Humidity

5% to 90% RH

Emission (EMI)

- FCC Class A
- CE Class A
- VCCI Class A

Safety

CUL



Ordering Information

Fast Ethernet Switch

DES-1018D 16 10/100BASE-TX ports, 2 1000BASE-T ports
DES-1024D 22 10/100BASE-TX ports, 2 1000BASE-T ports

D-Link®

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Rev. 01 (July, 2004)