

## Product Highlights

### Eco-friendly and Economical

Low-cost, innovative design runs reliably and quietly, saving energy and cutting costs without sacrificing connectivity

### High-speed Networking

Fast Ethernet ports allow you to expand your network and connect all your devices for quick file transfers and smooth media streaming

### Saves Energy

Environmental features reduce energy consumption, cutting costs, while compliance certifications give you piece of mind



## DES-1050G

# 48-Port Unmanaged Ethernet Switch with 2 Gigabit Copper/SFP Ports

## Features

### Superior Connectivity

- 48 10/100 Mbps Copper Ethernet Ports
- 2 Copper/SFP Gigabit ports
- 13.6 Gbps Switch Capacity

### State of the Art Functionality

- Auto MDI/MDIX for Each Port
- Full/Half-Duplex Support for Each Port
- 802.3x Flow Control Per Port for Data Loss
- Secure Store-and-Forward Switching Scheme Per-port
- Auto-correction of reverse twisted-pair polarity

### Easy Expansion

- Standard 19-inch rack-mount size
- Plug and play ports

The DES-1050G is a high port-density unmanaged 10/100Mbps Ethernet switch designed to be a cost-effective work-group connection. Equipped with 48 10/100 Mbps ports and 2 Copper/SFP Gigabit ports in a low-profile rack-mountable metal case, this switch provides low-cost connections for 48 workstations, plus 2 Gigabit connections to 2 servers on the twisted-pair network or fiber optic cables, allowing you to easily expand your network with an economical and high performance switch.

## Easy Network Expansion

The switch provides 2 Copper/SFP Gigabit ports for server connection on the Cat. 5 twisted-pair network or fiber optic cables. These ports can also be used to cascade the switches together to expand the number of ports available for network connections. Copper/SFP Gigabit ports provide an alternative solution to fiber-optic or copper twisted-pair wires as the transmission media, allowing you to instantly upgrade your servers to Gigabit capability without requiring you to install new, expensive fiber cables.

## Plug and Play

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 a straight-through twisted-pair cable, saving you time and money. With 50 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.

## Flow Control for Secure Transmission.

The DES-1050G provides 802.3x standard flow control to minimize dropped packets by sending out collision signals when the port's receiving buffer is full. This allows you to safely deploy Gigabit servers operating at 2000 Mbps full duplex mode for simultaneous access from workstations without risk of losing data.

## Technical Specifications

### General

Standards	<ul style="list-style-type: none"> <li>• IEEE 802.3 10BASE-T Ethernet</li> <li>• IEEE 802.3u 100BASE-TX Fast Ethernet</li> <li>• IEEE 802.3ab 1000BASE-T Gigabit Ethernet</li> </ul>	<ul style="list-style-type: none"> <li>• IEEE 802.3x Flow Control</li> <li>• IEEE 802.3z 1000BASE-X (fiber-optic)</li> <li>• ANSI/IEEE 802.3 Nway auto-negotiation</li> </ul>
Number of Ports	<ul style="list-style-type: none"> <li>• 48 10/100BASE-TX ports with auto MDI/MDIX</li> </ul>	<ul style="list-style-type: none"> <li>• 2 Gigabit Copper/SFP ports</li> </ul>
Data Transfer Rates	<ul style="list-style-type: none"> <li>• Ethernet <ul style="list-style-type: none"> <li>• 10Mbps (half-duplex)</li> <li>• 20Mbps (full-duplex)</li> </ul> </li> <li>• Fast Ethernet <ul style="list-style-type: none"> <li>• 100Mbps (half-duplex)</li> <li>• 200Mbps (full-duplex)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Gigabit Ethernet <ul style="list-style-type: none"> <li>• 2000Mbps (full-duplex)</li> </ul> </li> </ul>

### Functionality

Switch Fabric	<ul style="list-style-type: none"> <li>• 13.6 Gbps</li> </ul>	
Network Cables	<ul style="list-style-type: none"> <li>• 10BASE-T: <ul style="list-style-type: none"> <li>• UTP CAT 3/4/5/5e (100 m max.)</li> <li>• EIA/TIA-586 100-ohm STP (100 m max)</li> </ul> </li> <li>• 100BASE-TX <ul style="list-style-type: none"> <li>• UTP CAT 5/5e (100 m max)</li> <li>• EIA/TIA-568 100-ohm STP (100 m max)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 1000BASE-X(fiber-optic) <ul style="list-style-type: none"> <li>• Single-mode and Multi-mode fiber</li> </ul> </li> </ul>
Media Interface Exchange	<ul style="list-style-type: none"> <li>• Auto MDI/MDI-X for each port</li> </ul>	
Transmission Method	<ul style="list-style-type: none"> <li>• Store-and-forward</li> </ul>	
MAC Address Table	<ul style="list-style-type: none"> <li>• 8K entries per device</li> </ul>	
MAC Address Learning	<ul style="list-style-type: none"> <li>• Automatic update</li> </ul>	
Packet Filtering /Forwarding Rates	<ul style="list-style-type: none"> <li>• 10BASE-T: 14,880 pps per port (half-duplex)</li> <li>• 100BASE-TX: 148,810 pps per port (half-duplex)</li> </ul>	<ul style="list-style-type: none"> <li>• Gigabit Ethernet: 1,488,100 pps per port</li> </ul>
RAM Buffer	512K Bytes	
Network Cables	<ul style="list-style-type: none"> <li>• 10BASE-T: <ul style="list-style-type: none"> <li>• UTP Cat. 3, 4, 5 (100 m max)</li> <li>• EIA/TIA-586 100-ohm STP (100 m max.)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 100BASE-TX, 1000BASE-T: <ul style="list-style-type: none"> <li>• UTP Cat. 5, Cat. 5e (100 m max)</li> <li>• EIA/TIA-568 100-ohm STP (100 m max.)</li> </ul> </li> </ul>
Status/Diagnostic LEDs	<ul style="list-style-type: none"> <li>• Per device: <ul style="list-style-type: none"> <li>• Power</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Per port: <ul style="list-style-type: none"> <li>• Link/Activity</li> </ul> </li> </ul>
Certifications	<ul style="list-style-type: none"> <li>• CCC Class A</li> </ul>	<ul style="list-style-type: none"> <li>• CE</li> </ul>

### Physical

Dimensions	<ul style="list-style-type: none"> <li>• 441 x 220 x 44 mm (17.36 x 8.66 x 1.73 inches)</li> </ul>	<ul style="list-style-type: none"> <li>• 19-inch rack-mount width, 1 U height</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• 2.98 kg (6.57 lbs)</li> </ul>	
Power Consumption	<ul style="list-style-type: none"> <li>• 11.4 watts</li> </ul>	
Temperature	<ul style="list-style-type: none"> <li>• Operating: 0 to 40 °C (32 to 158 °F)</li> </ul>	<ul style="list-style-type: none"> <li>• Storage: -10 to 70 °C (-23 to 158 °F)</li> </ul>
Humidity	<ul style="list-style-type: none"> <li>• Operating: 10% to 90%</li> </ul>	<ul style="list-style-type: none"> <li>• Storage: 5% to 90%</li> </ul>

Order Information

<i>Part Number</i>	<i>Description</i>
DES-1050G	48-Port Unmanaged Ethernet Switch with 2 Gigabit Copper/SFP ports

Updated 12/24/13

Specifications are subject to change without notice. D-Link is a registered trademark of D-Link Corporation and its overseas subsidiaries. All other trademarks belong to their respective owners.  
©2013 D-Link Corporation. All rights reserved. E&OE.