



## DGS-1008P

### 8-port PoE Gigabit Desktop switch



#### Key features:

- Plug and Play operation
- 4 PoE ports
- Gigabit speed
- Non-blocking architecture: simultaneous full speed on all ports
- Fanless, silent operation to fit in any environment
- Quality of Service (QoS) queues for traffic prioritisation
- Cable diagnostics function to help troubleshoot wiring problems
- Safety function to prevent PoE overloads, protects both the switch and the connected PoE devices
- Green Ethernet technology, saves energy and increases the product's lifespan

#### High-Speed Networking

Transfer files over your network at blazing Gigabit speeds

#### Plug And Play

Auto MDI/MDIX simplifies cable connections

#### PoE

Power up to 4 Wireless Access Points or other PoE-capable devices

The DGS-1008P PoE Gigabit Desktop switch provides a cost-effective way for office users to easily connect and supply power to Power over Ethernet (PoE) devices such as wireless access points (APs), IP cameras, and IP phones. It also provides the opportunity to add additional Ethernet devices like computers, printers, and Network Attached Storage (NAS) onto a network. This compact PoE switch is equipped with Gigabit ports for faster speeds and operates quietly, making it ideal for use in virtually any room or office. In addition, D-Link's Green Ethernet technology saves power when the switch is active and inactive.

#### Plug and Play Power over Ethernet (PoE)

The first four ports of the DGS-1008P support the IEEE 802.3af PoE standard. Each of these four ports can supply up to 15.4 Watts, making it a very convenient solution for applications that are far away from power outlets, or when it is necessary to minimise the clutter of extra power supplies. The switch will automatically detect the power that a connected PoE device requires so no configuration is needed. A failsafe mechanism will cut off the power in case of an unexpected PoE overload, protecting both the switch and the connected device.

#### Cable diagnostics function

Every time the DGS-1008P is powered up, it runs a micro diagnostics routine to check the integrity of the connected Ethernet cables. If a failure is detected, the switch will flag it by means of its front panel LEDs, making it easy for the user to troubleshoot wiring problems.

#### QoS (Quality of Service)

Despite being an unmanaged, Plug and Play switch, the DGS-1008P is able to classify network traffic by assessing the existing 802.1p and DSCP fields in the Ethernet frames and IP packets respectively, and forward traffic from its ports depending on their priority. This allows for a smooth integration of video, voice and data traffic without delays or loss of quality.

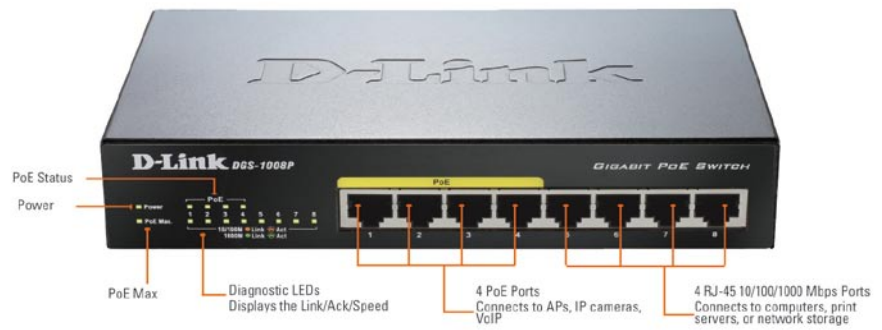
#### Auto MDI/MDIX crossover

All ports support automatic MDI/MDIX crossover, eliminating the need for crossover cables or uplink ports. Each port can be plugged directly to a server, hub, router, or switch using regular straight-through twisted-pair Ethernet cables.

#### Power-saving technology

The DGS-1008P 8-Port Gigabit Switch makes use of D-Link Green™ eco-friendly technology, providing energy savings, reduced power consumption, and a longer product life without sacrificing operational performance or functionality. This switch helps to conserve energy through methods such as Link Status and Cable Length Detection. The Link Status feature automatically powers down ports that have no activity on their links, allowing the switch to save substantial amounts of energy by cutting power for unused ports or ports connected to computers that have been shut down. It can also detect connected cable lengths, and adjust power usage accordingly, helping you save energy without affecting networking performance. In addition, the fan-less design extends the product's lifespan and also reduces noise.

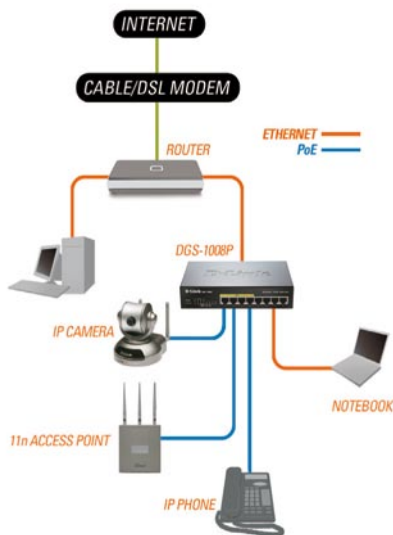
## Technical Specifications



### What this product does

The DGS-1008P offers an economical way for businesses to benefit from the increased bandwidth of Gigabit Ethernet. It provides 8 Gigabit ports for fast server deployment to meet increasing network loads. The Gigabit PoE ports provide a larger bandwidth for high speed network applications, especially IEEE 802.11n Access Points, high resolution video cameras, and IP phones.

### Your Network Setup



### Key Features

- 8 10/100/1000 Mbps Gigabit Ports
- Auto MDI/MDIX Crossover for all ports
- Store-and-forward Switching Scheme
- Full/half-duplex for Ethernet/Fast Ethernet Speeds
- IEEE 802.3x Flow Control
- Plug-and-play Installation
- Built-in D-link Green Technology
- RoHS Compliant
- IEEE 802.1p QoS (4 Queues, Strict Mode)
- Supports Cable Diagnostics
- Supports 9720 KBytes Jumbo Frames

### Switching Capability

- 16 Gbps

### Standards

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet
- IEEE 802.3ab 1000BASE-T Gigabit Ethernet
- ANSI/IEEE 802.3 NWay Auto-negotiation
- IEEE 802.3x Flow Control
- IEEE 802.1p QoS

### PoE Features

- Supports IEEE 802.3af
- Supplies power to PD: up to 15.4 Watts
- Total PoE budget: 52 Watts
- PoE port count/Average PoE watts per port: 4 (Port 1 - 4) / 13 Watts

### Data Transfer Rates

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

### Topology

- Star

### Media Interface Exchange

- Auto MDI/MDIX adjustment for all ports

### Network Cables

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

### LED Indicators

- Per port: Link/Activity/Speed/PoE Status
- Per device: Power/PoE Max

### Transmission Method

- Store-and-forward

### MAC Address Table

- 4K Entries per device

### MAC Address Learning

- Automatic update

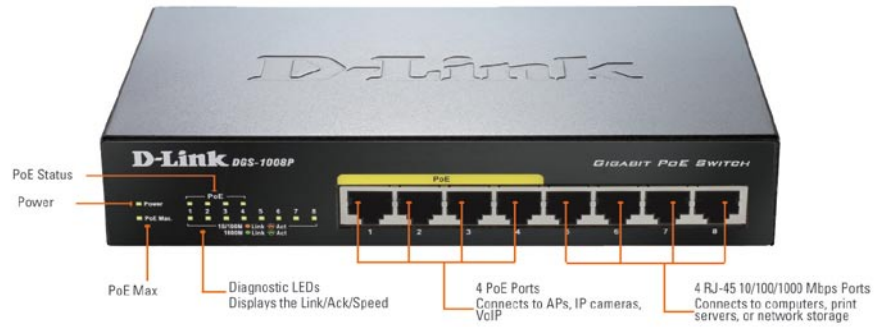
### Packet Filtering/Forwarding Rates

- Ethernet: 14,880 pps per port
- Fast Ethernet: 148,800 pps per port
- Gigabit Ethernet: 1,488,000 pps per port

### RAM Buffer

- 192 KBytes per device

## Technical Specifications



### Power Consumption

- Power On (Standby):
  - DC input: 0.48 Watts
  - AC input: 2.1 Watts
- Maximum (PoE Off)
  - DC input: 4.48 Watts
  - AC input: 6.2 Watts
- Maximum (PoE On)
  - DC input: 57.83 Watts
  - AC input: 63.2 Watts

### Power Adapter

- AC input: 100 to 240 VAC, 50/60 Hz
- DC output: DC 48 V/1.25 A (60 Watts)

### Operating Temperature

- Device:
  - 0 to 50 °C (32 to 122 °F)
- External Power Adapter:
  - 0 to 40 °C (32 to 104 °F)

### Storage Temperature

- -40 to 70 °C (104 to 158 °F)

### Operating Humidity

- 0% to 95% RH non-condensing

### Storage Humidity

- 0% to 95% RH non-condensing

### Device Dimensions (W x D x H)

- 190 x 120 x 38 mm (7.5 x 4.7 x 1.5 inches)

### Certifications

- FCC Class B
- ICES-003 Class B
- CE Class B
- C-Tick Class B
- VCCI Class B
- cUL
- LVD



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