

## Product Highlights

### Powered by PoE

- Receives power from upstream PoE Switch or PoE Injector
- No local power source needed
- Ideal for use in hard to reach locations

### PoE Extender

- Supports PoE Pass-through
- Propagates PoE power to one or two downstream devices
- Ideal for IP Surveillance networks

### Smart and Flexible Management

- Powerful switch management functions
- Web management interface
- Client-based utility



## DGS-1100-05PD

# Smart Managed PoE-Powered 5-Port Gigabit Switch

## PoE Extender

### Features

#### Port Functions

- 5 Gigabit Ethernet 10/100/1000 ports
- Powered by PoE (802.3af or 802.3at) on port 5
- Supports PoE Pass-through (ports 1 and 2)

#### Green Technology

- IEEE 802.3az Energy Efficient Ethernet compliant

#### Advanced L2 Switching Features

- IGMP Snooping
- Bandwidth Control
- 802.1Q VLAN for traffic segregation
- Port-based VLAN
- 802.1p Quality of Service
- Surveillance VLAN and Voice VLAN

#### Management Features

- Web-based GUI
- Client-based utility

### Overview

The DGS-1100-05PD is a unique 5-port switch powered through the network cable by an upstream PoE power source (PoE switch or injector). As a “PoE extender”, it also has the ability to propagate (pass-through) PoE power further downstream to one or two Powered Devices (PDs).

### Powered by PoE

The DGS-1100-05PD is powered by a PoE switch or PoE injector that can be located up to 100m away. As such, this device is intended for applications where a small 5-port Gigabit switch is required but AC power is not close by. The upstream PoE source may support either 802.3af or 802.3at. One switch port is used for the power input (port 5) and the other four ports are available as standard 10/100/1000 ports for networked devices, such as PCs, printers, etc.

### PoE Extender

The DGS-1100-05PD switch can also “pass-through” PoE power to one or two downstream PDs (such as IP Cameras, IP Phones, Wireless APs). The PoE budget for this feature is dependent on the PoE source (802.3af or 802.3at) and the PD’s PoE Classification.

PoE pass-through capability makes the DGS-1100-05PD ideal for IP Surveillance networks when cameras are located beyond 100m from the main PoE switch. As an additional benefit, because the switch is smart-managed, an administrator can control various PoE functions through the user interface, such as remotely rebooting cameras or access points, from anywhere on the network.

### Smart Managed 5-Port Gigabit Switch and PoE Extender

The following table illustrates the switch's capabilities when using PoE pass-through:

Port 5 Connected Device Type	Port 1 PD Class Type Supported	Port 2 PD Class Type Supported
802.3af PoE Switch/Injector	Class 1 or 2	NA
	NA	Class 1 or 2
802.3at PoE Switch/Injector	Class 0 or 3	NA
	NA	Class 0 or 3
	Class 1 or 2	Class 1 or 2

#### Built to Last

The DGS-1100-05PD comes in a compact metal enclosure. It can be wall mounted or placed on a desktop. It has no fans so it operates silently. Compliant with IEEE 802.3az Energy Efficient Ethernet (EEE), it consumes less energy by cutting down on power consumption when port utilization is low.

#### Easy to Deploy

The DGS-1100-05PD supports an intuitive client-based utility (D-Link Network Assistant Utility) and a web-based management interface. The client-based utility discovers all D-Link Smart Switches within the same Layer 2 network segment, making initial setup quick and easy. This allows extensive switch configuration and basic administration of discovered devices, including password changes and firmware upgrades. The web-based management interface provides a user-friendly way for network administrators to manage the switch down to the port level. The interface can be accessed from a web browser, allowing the switch to be controlled from any network-connected PC.

#### Surveillance VLAN and Bandwidth Control

The DGS-1100-05PD supports Surveillance VLAN for IP surveillance deployments. This gives video traffic a dedicated VLAN and higher priority through the switch, separating surveillance traffic from the rest of the network. This also ensures security, and guarantees the quality of the video traffic, sparing businesses the added cost of dedicated surveillance networking hardware. Bandwidth Control can reserve bandwidth on a per port basis for important functions that require larger bandwidth or might have high priority.

#### Advanced Features

The DGS-1100-05PD is equipped with advanced security features such as Static MAC, Storm Control, and IGMP Snooping. Static MAC allows users to create a MAC white list for specific ports, helping administrators limit network access to authorized devices only. Storm Control monitors broadcast, multicast, or unknown unicast traffic and will start blocking or discarding packets which could flood the network when the defined threshold is exceeded. IGMP Snooping is able to reduce the loading of L3 multicast routers and save bandwidth in network throughput.

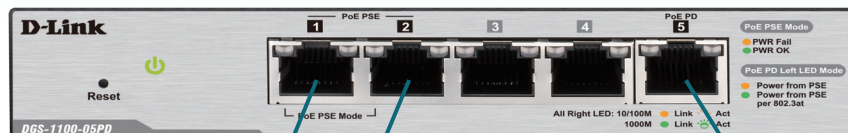
#### Easy Troubleshooting

The DGS-1100-05PD features Loopback Detection and Cable Diagnostics to help network administrators find and solve network problems quickly and easily. Loopback Detection is used to detect loops created by a specific port and automatically shuts down the affected port. Cable Diagnostics helps network administrators quickly examine the quality of the copper cables, recognize the cable type, and detect cable errors.

#### Limited Lifetime Warranty

D-Link offers a Limited Lifetime Warranty on the DGS-1100-05PD Gigabit Smart Managed Switch to further its commitment to product quality and long-term customer confidence.<sup>1</sup>

### DGS-1100-05PD Switch Front Panel

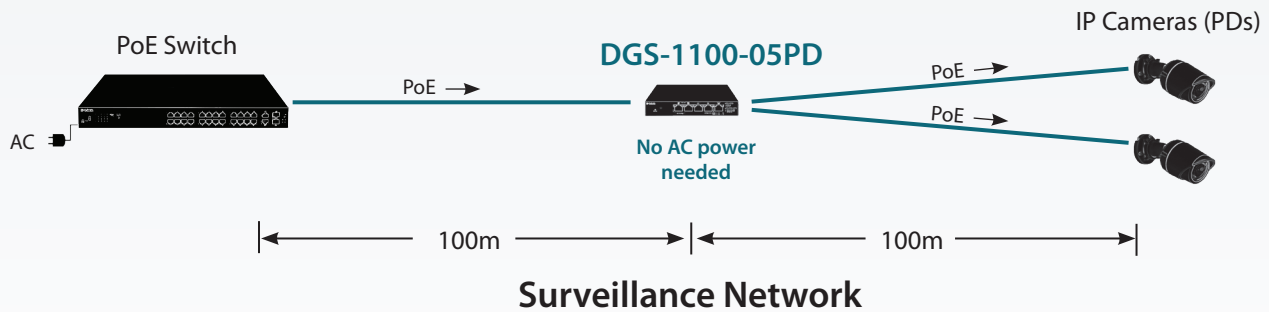
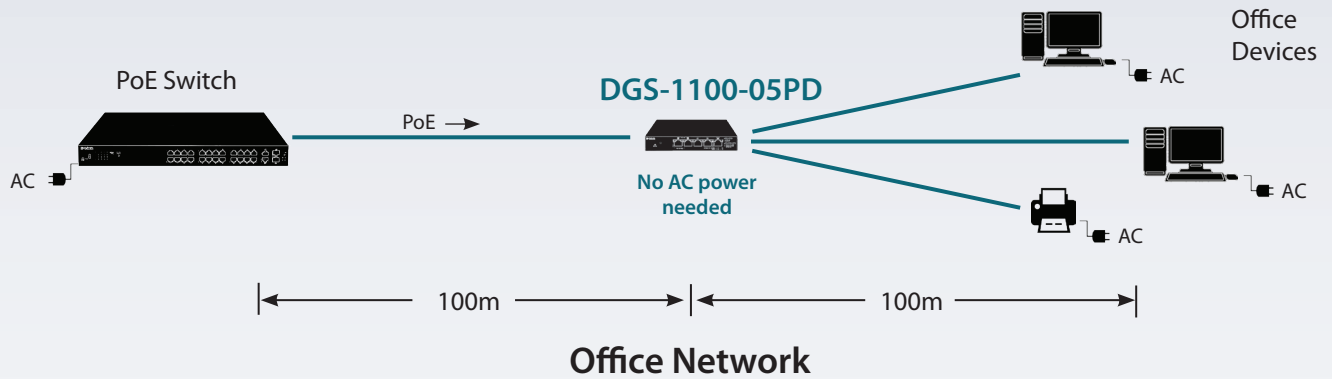


PoE Power out (optional)

PoE Power out (optional)

PoE Power in

### Smart Managed 5-Port Gigabit Switch and PoE Extender



#### Technical Specifications

#### DGS-1100-05PD



#### General

Hardware Version	Rev. B
10/100/1000 Ports	5
Port Standards & Functions	<ul style="list-style-type: none"> <li>• IEEE 802.3, 802.3u, 802.3ab compliant</li> <li>• IEEE 802.3x Flow Control</li> <li>• IEEE 802.3az EEE compliant</li> <li>• IEEE 802.3af compliant</li> <li>• Half/Full-duplex operation at 10/100</li> <li>• Full-duplex operation at 1000Mbps</li> <li>• Auto-Negotiation for each port</li> <li>• Auto MDI/MDIX</li> </ul>
Switching Capacity	10 Gbps
Max. Forwarding Rate	7.4 Mpps
MAC Address Table Size	2K Entries
Packet Buffer	1 Mbits
Flash Memory	2 Mbytes

Power over Ethernet	
PoE Standard	802.3af
PoE Capable Ports	Ports 1-2 (PSE) Port 5 (PD)
PoE Power Budget	18W with 802.3at input power / 8W with 802.3af input power
Physical & Environmental	
Power Input	802.3af/at PoE input only (no external Pwr Supply)
Max. Power Consumption	23.92 W (PoE on) / 2.32 W (PoE off)
Standby Power Consumption	1.46 W
Ventilation	Fanless
Acoustics	0 dB(A)
Heat Dissipation	N/A
Operating Temperature	32°F to 104°F (0°C to 40°C)
Storage Temperature	-40°F to 158°F (-40°C to 70°C)
Operating Humidity	0% to 90% non-condensing
Storage Humidity	0% to 95% non-condensing
Dimensions (W x D x H)	5.91" x 3.82" x 1.10" (150x97x28mm)
Weight	0.84 lbs (0.38 kg)
EMI Certifications	FCC Class B, CE Class B, VCCI Class B, BSMI, CCC
Safety	cUL, CE LVD, CB, BSMI, CCC
MTBF	2,346,941 hours

#### Software Features

VLAN	<ul style="list-style-type: none"> <li>• Port-based VLAN</li> <li>• 802.1Q Tagged VLAN</li> <li>• Surveillance VLAN</li> <li>• Voice VLAN</li> <li>• Management VLAN</li> <li>• Asymmetric VLAN</li> </ul>	<ul style="list-style-type: none"> <li>• VLAN Group               <ul style="list-style-type: none"> <li>• Supports 32 static VLAN groups</li> <li>• Max. 4094 VIDs</li> </ul> </li> </ul>
L2 Features	<ul style="list-style-type: none"> <li>• Flow Control               <ul style="list-style-type: none"> <li>• 802.3x Flow Control</li> <li>• HOL Blocking Prevention</li> </ul> </li> <li>• Jumbo Frames up to 9216 Bytes</li> <li>• IGMP Snooping               <ul style="list-style-type: none"> <li>• IGMPv1/v2 Snooping</li> <li>• IGMPv3 Awareness</li> <li>• Supports 128 Groups</li> </ul> </li> <li>• 802.3ad Link Aggregation               <ul style="list-style-type: none"> <li>• 1 group, 2-4 ports per group</li> </ul> </li> <li>• Loopback Detection</li> <li>• Cable Diagnostics</li> </ul>	<ul style="list-style-type: none"> <li>• Port Mirroring               <ul style="list-style-type: none"> <li>• One-to-One</li> <li>• Many-to-One</li> </ul> </li> <li>• Statistics               <ul style="list-style-type: none"> <li>• Tx Ok</li> <li>• Tx Error</li> <li>• Rx Ok</li> <li>• Rx Error</li> </ul> </li> <li>• Spanning Tree Protocol               <ul style="list-style-type: none"> <li>• 802.1D STP</li> <li>• 802.1w RSTP</li> </ul> </li> </ul>

## Smart Managed 5-Port Gigabit Switch / PoE Extender

QoS	<ul style="list-style-type: none"> <li>• 802.1p Quality of Service</li> <li>• 4 queues per port</li> <li>• Queue Handling <ul style="list-style-type: none"> <li>• Strict</li> <li>• Weighted Round Robin (WRR)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Bandwidth Control <ul style="list-style-type: none"> <li>• Port Based</li> <li>• Ingress: minimum granularity 8 Kbps</li> <li>• Egress: minimum granularity 8 Kbps</li> </ul> </li> </ul>
Security	<ul style="list-style-type: none"> <li>• Traffic Segmentation</li> <li>• Broadcast/Multicast/Unknown Unicast Storm Control</li> </ul>	<ul style="list-style-type: none"> <li>• Static MAC Address <ul style="list-style-type: none"> <li>• Max. 32 entries</li> </ul> </li> </ul>
Management	<ul style="list-style-type: none"> <li>• Web-Based GUI: <ul style="list-style-type: none"> <li>• Supports IPv4</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• D-Link Network Assistant Utility</li> </ul>
Green Technology	<ul style="list-style-type: none"> <li>• Compliant with Energy Efficient Ethernet (IEEE 802.3az)</li> </ul>	<ul style="list-style-type: none"> <li>• RoHS Compliant</li> </ul>
MIB/RFC Standards	<ul style="list-style-type: none"> <li>• RFC 768 UDP</li> <li>• RFC 791 IP</li> <li>• RFC 792 ICMP</li> <li>• RFC 793 TCP</li> <li>• RFC 826 ARP</li> </ul>	<ul style="list-style-type: none"> <li>• IEEE 802.1p</li> <li>• RFC2236, IGMP Snooping</li> <li>• RFC1213 MIB II</li> <li>• RFC1215 MIB Traps Convention</li> </ul>

## Ordering Information

Product	Description	Warranty
DGS-1100-05PD	5-Port Gigabit Smart Managed Desktop Switch, PoE Powered, PoE Pass-through	Limited Lifetime <sup>1</sup>

<sup>1</sup> Limited Lifetime Warranty available in U.S.A. only. Warranty void when not purchased from Authorized US D-Link Reseller. Please visit [us.dlink.com](http://us.dlink.com) for list of Authorized US Resellers.

Updated 25-May-2017

Hardware Rev B

DGS-1100-05PD\_REVB\_DATASHEET\_1.01\_EN\_US.PDF

## For more information

U.S.A. | 17595 Mt. Herrmann Street | Fountain Valley, CA 92708 | 800.326.1688 | [us.dlink.com](http://us.dlink.com)

©2016 D-Link Corporation/D-Link Systems, Inc. All rights reserved. D-Link and the D-Link logo are registered trademarks of D-Link Corporation or its subsidiaries in the United States and/or other countries. Other trademarks or registered trademarks are the property of their respective owners.

All references to speed are for comparison purposes only. Product specifications, size and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

Visit [us.dlink.com](http://us.dlink.com) for more details.

**D-Link**<sup>®</sup>  
Building Networks for People