

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 only)

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 Class 2 | Not Supported |
| | Not Supported | Class 1 or Class 2 |
| 802.3at PoE Switch/Injector | Class 0 or 3 | Not Supported |
| | Not Supported | Class 0 or Class 3 |
| | Class 1 or Class 2 | Class 1 or Class 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 helps to ensure 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.

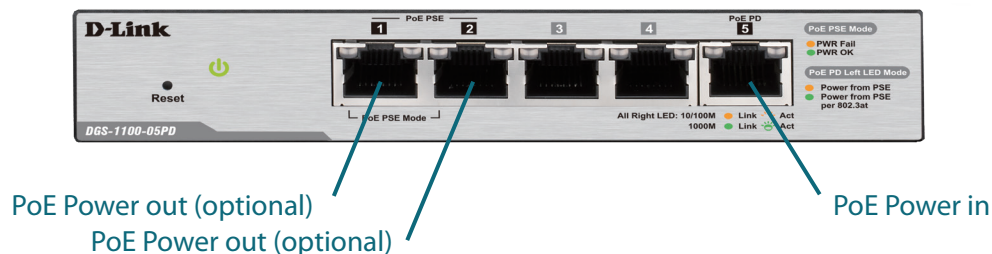
Easy Troubleshooting

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.

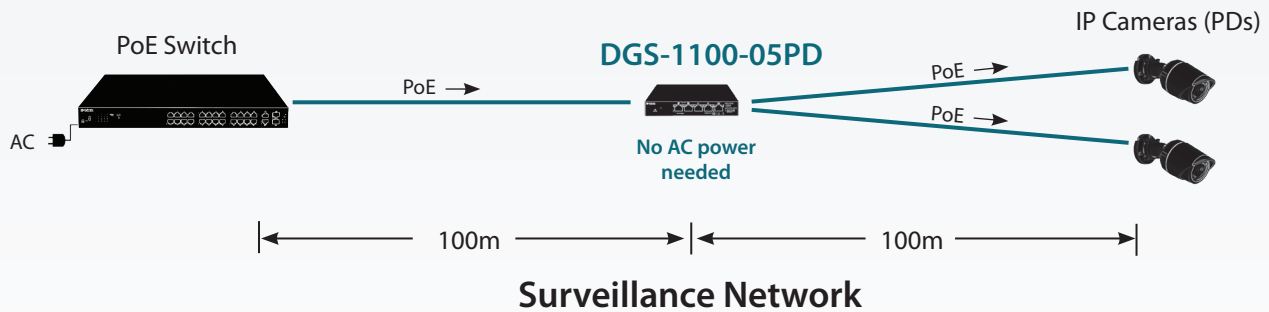
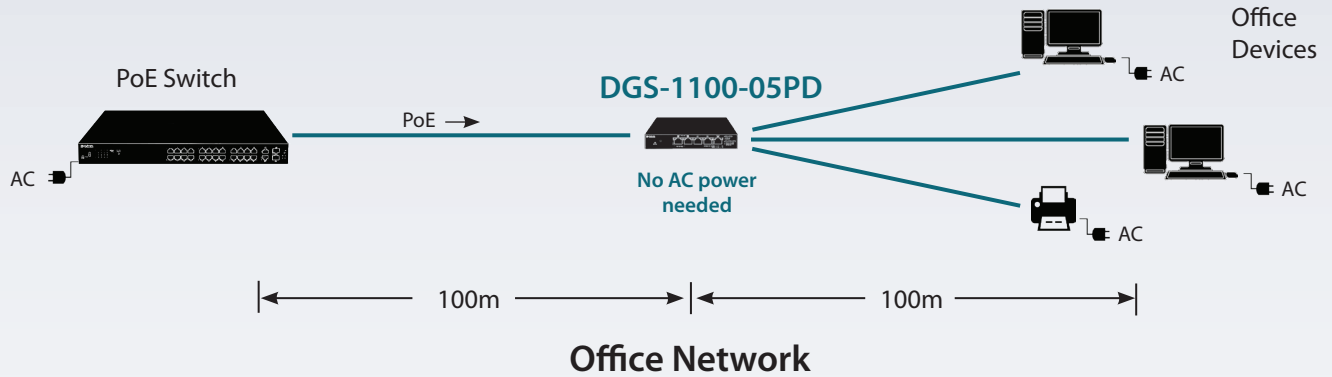
Lifetime Warranty

D-Link offers a Lifetime Warranty and Next Business Day (NBD) hardware replacement on the DGS-1100-05PD Gigabit Smart Managed Switch to further its commitment to product quality and long-term customer confidence.¹

DGS-1100-05PD Switch Front Panel



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"> • IEEE 802.3, 802.3u, 802.3ab compliant • IEEE 802.3x Flow Control • IEEE 802.3az EEE compliant • IEEE 802.3af compliant • Half/Full-duplex operation at 10/100 • Full-duplex operation at 1000Mbps • Auto-Negotiation for each port • Auto MDI/MDIX |
| 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"> • Port-based VLAN • 802.1Q Tagged VLAN • Surveillance VLAN • Voice VLAN • Management VLAN • Asymmetric VLAN | <ul style="list-style-type: none"> • VLAN Group <ul style="list-style-type: none"> • Supports 32 static VLAN groups • Max. 4094 VIDs |
| L2 Features | <ul style="list-style-type: none"> • Flow Control <ul style="list-style-type: none"> • 802.3x Flow Control • HOL Blocking Prevention • Jumbo Frames up to 9216 Bytes • IGMP Snooping <ul style="list-style-type: none"> • IGMPv1/v2 Snooping • IGMPv3 Awareness • Supports 128 Groups • 802.3ad Link Aggregation <ul style="list-style-type: none"> • 1 group, 2-4 ports per group • Loopback Detection • Cable Diagnostics | <ul style="list-style-type: none"> • Port Mirroring <ul style="list-style-type: none"> • One-to-One • Many-to-One • Statistics <ul style="list-style-type: none"> • Tx Ok • Tx Error • Rx Ok • Rx Error • Spanning Tree Protocol <ul style="list-style-type: none"> • 802.1D STP • 802.1w RSTP |

Smart Managed 5-Port Gigabit Switch / PoE Extender

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

Ordering Information

| Product | Description | Warranty |
|---------------|--|-----------------------|
| DGS-1100-05PD | 5-Port Gigabit Smart Managed Desktop Switch, PoE Powered, PoE Pass-through | Lifetime ¹ |

¹ Lifetime Warranty available in U.S.A. only. Lifetime Warranty is effective for products purchased on or after Aug 1, 2017. Products purchased prior to Aug 1, 2017 are covered by Limited Lifetime Warranty. Lifetime Warranty void when not purchased from Authorized US D-Link Reseller. Please visit us.dlink.com for list of Authorized US Resellers.

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Hardware Rev B

DGS-1100-05PD_REVB_DATASHEET_1.11_EN_US.PDF

For more information

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