

## Product Highlights

### Standards Compliant

Supports IEEE 802.3af and 802.3at for interoperability with third party devices

### Extra Power

IEEE 802.3at provides up to 32.4W of power for devices requiring PoE+

### Gigabit Speeds

10/100/1000 port will connect with 10Mbps, 100Mbps or 1000Mbps devices

### Multiple Applications

Injector and Splitter can be used individually, or together to provide a complete PoE solution



**DPE-301GI**  
PoE Injector



**DPE-301GS**  
PoE Splitter

## DPE-301GI / DPE-301GS

# 1-Port Gigabit PoE Injector / 1-Port Gigabit PoE Splitter

## Features

### Easy to Use

- Plug-and-Play with no software required
- Facilitates deployment of PoE devices where power outlets are not available
- Reduces installation and network equipment costs by eliminating the need for electrical wiring
- Provides power over existing network cabling to PoE devices such as access points, IP cameras, and IP phones
- Lightweight, compact and easy to install

### Gigabit Connectivity

- 10/100/1000 interface provides flexibility for all types of connections
- Auto-negotiation on Ethernet ports

### Reliability

- Supports 802.3af / 802.3at
- Overcurrent protection

### PoE Injector

- Injects PoE on a cable when use of PoE switch is impractical
- Delivers power up to 100 meters (328ft)

### PoE Splitter

- Converts incoming power from a PoE switch or injector to low-voltage DC power
- Ideal for non-PoE access points, IP cameras and VoIP phones
- Supports 5V, 9V and 12V via selectable switch

## Overview

D-Link's DPE-301GI and DPE-301GS are used to provide I.T. Professionals with the benefits of Power over Ethernet (PoE), even when other devices in the network do not support it. With PoE technology, low voltage DC power and Ethernet data signals are combined on a single network cable, which facilitates powering of end devices like IP Cameras, wireless Access Points (APs), and VoIP Phones. This reduces cable clutter, eliminates the need for dedicated electrical outlets on the wall, ceiling, or other unreachable places, reduces installation time, and lowers costs.

Both the DPE-301GI and DPE-301GS devices support Gigabit speeds, and can connect to 10Mbps, 100Mbps or 1000Mbps through the RJ-45 interface. These devices also support the IEEE 802.3af and 802.3at PoE/PoE+ standards, which ensures interoperability with other standards-based PoE and PoE+ devices. Small and compact, the DPE-301GI and DPE-301GS are lightweight, have integrated mounting slots, and are easy to install.

## DPE-301GI Gigabit PoE Injector

D-Link's DPE-301GI 1-Port Gigabit Power over Ethernet (PoE) Injector provides a power and data connection to a PoE device over a single network cable. It allows I.T. Professionals to mount their PoE devices virtually anywhere in a building, such as on ceilings or near entryways, and eliminates the need for nearby power outlets and attached power supplies. The DPE-301GI combines electrical power with a Gigabit network connection and produces a Gigabit PoE signal, allowing a single Ethernet cable to carry both data and power to a device.

Also known as a "midspan PSE", the DPE-301GI PoE injector can be used when deploying a multi-port PoE switch is impractical or not feasible. It has two

10/100/1000 RJ-45 ports. One port is for LAN IN, which is the network connection, typically connected to a non-PoE switch or router. The other port is for PoE OUT, which is the connection that provides both power and data signal to the end device (PD). The DPE-301GI can be located anywhere on the Ethernet link, although it's typically placed near the switch/router. Location of the injector does not impact the maximum 100m (328ft.) distance from the switch/router to the end device.



Support for IEEE 802.3at ensures the DPE-301GI can power PoE+ devices up to 30W, such as high power 802.11ac APs and IP cameras with PTZ motors, heaters and blowers.

### DPE-301GS Gigabit PoE Splitter

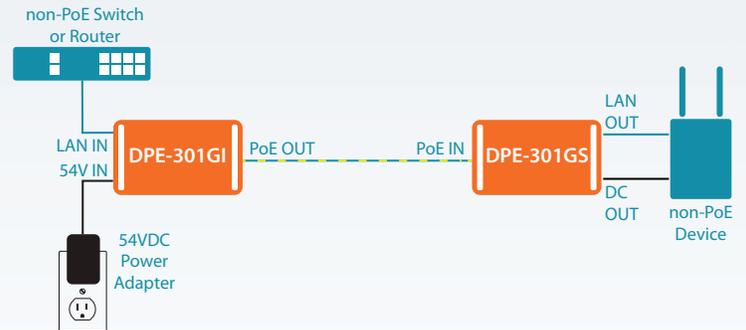
The DPE-301GS PoE splitter is used with end devices such as wireless access points, IP cameras and VoIP phones that don't natively support PoE, but rather require DC power input of 5V, 9V or 12V. It receives PoE power on a network cable from a PoE switch or midspan injector, and splits the Ethernet and DC power into two separate cables. One cable provides the DC power, and the other cable provides the Ethernet signal. Users can select from 5VDC, 9VDC and 12VDC power for their device using a selectable DIP switch on the device.

The DPE-301GS PoE splitter is typically located near the end device. It has two 10/100/1000 RJ-45 ports. One port is for PoE IN, which is the network connection and is usually connected to a remote PoE switch or injector. The other port is for LAN OUT, which is the connection that provides the Ethernet signal to the end device. The DPE-301GS also has a 5.5mm DC OUT port. Two adapter cables are supplied; either one may be connected to this port, depending on whether 5.5mm or 3.8mm interface is required for the end device.



### PoE Injector and PoE Splitter Tandem

Both the DPE-301GI and DPE-301GS can be used together, as a complete PoE transport system. This is especially useful when a PoE switch is not available, and the end device is not PoE capable, but the Network Administrator still prefers the benefits of PoE. Simply install the injector close to the network switch, install the splitter close to the end device, and plug in the cables.



### DPE-301GI Gigabit PoE Injector



### DPE-301GI - Technical Specifications

Ports	
PoE and Data Label: PoE OUT	<ul style="list-style-type: none"> <li>• IEEE 802.3 / 10BASE-T</li> <li>• IEEE 802.3u / 100BASE-Tx</li> <li>• IEEE 802.3ab / 1000BASE-T</li> </ul>
Data Label: LAN IN	<ul style="list-style-type: none"> <li>• IEEE 802.3af / 802.3at</li> <li>• Half/full-Duplex operation</li> <li>• CSMA/CD</li> </ul>
Physical and Environmental	
Dimensions (L x W x H)	4.32 x 2.45 x 0.96 in. (109.8 x 62.2 x 24.5 mm)
Weight	2.47 ounces (70 grams)
Temperature	Operating: 32°F to 122°F / 0° to 50°C Storage: -22°F to 158°F / -30°C to 70°C
Humidity	Operating: 5% to 95% RH Storage: 5% to 95% RH
Power Consumption	Maximum: 32.4 Watts
LED Indicators	Blue: Power On Green: Link On
AC/DC Power Adapter	
AC Input	100 - 240V, 50/60 Hz
DC Output	54V/0.6A
Power Jack	5.5mm (EIAJ-4) I-type
PoE Features	
Standards	IEEE 802.3af, IEEE 802.3at
Power Output	54V±2V, 600mA 32.4 Watts Maximum
Emissions (EMI) and Safety Certifications	
Certifications	CE, FCC, VCCI, RCM, RoHS, BSMI

### DPE-301GS Gigabit PoE Splitter



### DPE-301GS - Technical Specifications

Ports		
PoE and Data Label: PoE IN	<ul style="list-style-type: none"> <li>• IEEE 802.3 / 10BASE-T</li> <li>• IEEE 802.3u / 100BASE-Tx</li> <li>• IEEE 802.3ab / 1000BASE-T</li> </ul>	<ul style="list-style-type: none"> <li>• IEEE 802.3af / 802.3at</li> <li>• Half/full-Duplex operation</li> <li>• CSMA/CD</li> </ul>
Data Label: LAN OUT	<ul style="list-style-type: none"> <li>• IEEE 802.3 / 10BASE-T</li> <li>• IEEE 802.3u / 100BASE-Tx</li> <li>• IEEE 802.3ab / 1000BASE-T</li> </ul>	<ul style="list-style-type: none"> <li>• Half/full-Duplex operation</li> <li>• CSMA/CD</li> </ul>
Physical and Environmental		
Dimensions (L x W x H)	4.32 x 2.45 x 0.96 in. (109.8 x 62.2 x 24.5 mm)	
Weight	3.46 ounces (98 grams)	
Temperature	Operating: 32°F to 140°F / 0°C to 60°C	Storage: -22°F to 158°F / -30°C to 70°C
Humidity	Operating: 5% to 95% RH	Storage 5% to 95% RH
LED Indicators	Blue: Power On	Green: Link On
DC Power Out		
Switchable Output Voltage	5V DC, 2.5A max. 9V DC, 2A max. 12V DC, 2A max.	
Included Power Adapter Cables	5.5mm male to 5.5mm male 5.5mm male to 3.8mm male	
PoE Features		
Standards	IEEE 802.3af, IEEE 802.3at	
Emissions (EMI) and Safety Certifications		
Certifications	CE, FCC, VCCI, RCM, RoHS	

# DPE-301GI / DPE-301GS PoE Injector / PoE Splitter

Ordering Information		
<i>Product</i>	<i>Description</i>	<i>Warranty</i>
DPE-301GI	1-Port Gigabit PoE Injector	1 Year Limited
DPE-301GS	1-Port Gigabit PoE Splitter	1 Year Limited

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DPE-301GI-GS\_REVA\_DATASHEET\_1.00\_EN\_US.PDF

## For more information

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

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