




D-Link DES-1018MPV2 18 Port 10/100Base-TX Poe Unmanage Switch User Guide

[Home](#) » [D-Link](#) » D-Link DES-1018MPV2 18 Port 10/100Base-TX Poe Unmanage Switch User Guide 



DES-1018WPV2 USER DUIDE



VERSION 1.01

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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this user's guide, may cause harmful interference to radio communications. The operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Innovation, Science and Economic Development Canada (ISED) Statement This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Warning:

This is a class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

CE Mark Warning

This equipment is compliant with Class A of CISPR 32. In a residential environment, this equipment may cause radio interference.

Contents

1 SAFETY

INSTRUCTIONS

2 Product Introduction

3 Rear Panel

4 Hardware Installation

5 Technical Specifications

6 Documents / Resources

6.1 References

7 Related Posts

SAFETY INSTRUCTIONS

The following general safety guidelines are provided to help ensure your own personal safety and protect your product from potential damage. Remember to consult the product user instructions for more details.

- Static electricity can be harmful to electronic components. Discharge static electricity from your body (i.e. touching grounded bare metal) before touching the product.
- Do not attempt to service the product and never disassemble the product. For some products with a user-replaceable battery, please read and follow the instructions in the user manual.
- Do not spill food or liquid on your product and never push any objects into the openings of your product.
- Do not use this product near water, areas with high humidity, or condensation unless the product is specifically rated for outdoor application.
- Keep the product away from radiators and other heat sources.

- Always unplug the product from mains power before cleaning and use a dry lint-free cloth only.

Fuse is in the neutral, and that the mains shall be disconnected to de-energize the phase conductors.

CAUTION

DOUBLE POLE/NEUTRAL FUSING

Attention

Fusion bipolaire / neuter

Disposing and recycling your product



This symbol on the product or packaging means that according to local laws and regulations this product should be not be disposed of in the household waste but sent for recycling. Please take it to a collection point designated by your local authorities once it has reached the end of its life, some will accept products for free. By recycling the product and its packaging in this manner you help to conserve the environment and protect human health.

D-Link and the environment

At D-Link, we understand and are committed to reducing any impact our operations and products may have on the environment. To minimize this impact D-Link designs and builds its products to be as environmentally friendly as possible, by using recyclable, low toxic materials in both products and packaging.

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Product Introduction

The DES-1018MPV2 is an 18-port PoE unmanaged switch with 2 combo ports. Each PoE port (1 to 16 port) supports up to 30 watts and complies with IEEE 802.3af/at standard. The switch requires no configuration, which is suitable for SOHO and SMB users.

Front Panel

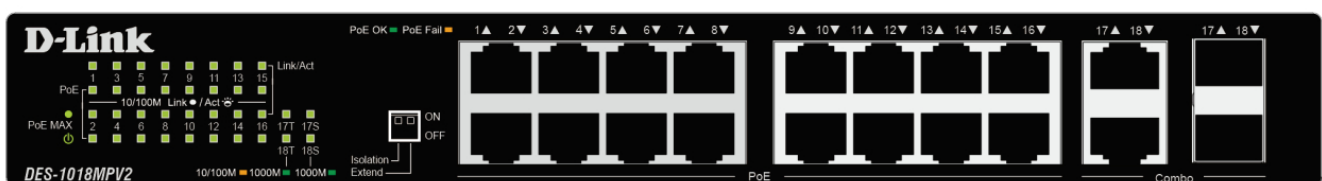


Figure 1 –DES-1018MPV2 front panel

H/W DIP switch is used to easily configure the following functions.

Isolation: 1-16 ports of the switch can't communicate with each other, but they can separately communicate with the uplink ports.

Extend: The data rate of 1-8 ports of the switch is limited to 10Mbps, whereas the maximum transmission distance of the port is increased to 250 meters.

* 1~8 ports support port priority to optimize port cache.

#	Item	Description
1	Ports 1 ~16	10/100 Mbps PoE-capable ports for connecting Ethernet devices and PoE-powered devices.
2	Port 17~18	10/100/1000 Mbps GbE/SFP combo uplink port for connecting to another switch using an Ethernet cable or installing a compatible SFP transceiver.

Rear Panel

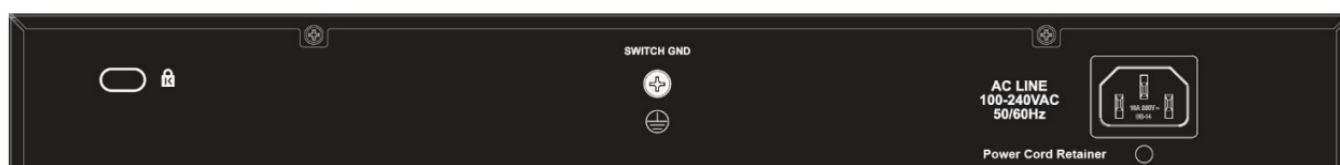


Figure 2 –DES-1018MPV2 rear panel

Switch GND: This is used to connect the switch to the ground.

Power Input: This is used to connect the power cable to the switch.

Location	LED Indicative	Status	Description
Per Device	Power	Solid Light	Device Power On
		Light off	Device Power Off
	PoE max.	Light off	PoE load value is normal.
		Solid Red	The PoE load value reaches the limit value and the load quota can be no longer increased.
LED Per10/100 /1000 Base-T/SFP Ports(Ports 17 to 18)	Link/Act/Speed	Solid Green	A secure connection to a 1000 Mbps Ethernet device is established.
		Blinking Green	The port is receiving or transmitting data.
		Solid Amber	Secure connection to a 10/100Mbps Ethernet device.
		Blinking Amber	The port is receiving or transmitting data.
		Light off	No link
LED Per 10/100Mbps Port(Ports 1-16)	Link/Act/Speed	Solid Green	When there is a secure connection (or link) to 10/100 Mbps Ethernet device at any of the ports.
		Blinking Green	When there is reception or transmission of data occurring at 10/100 Mbps.
		Light off	No link
LED Per PoE Port(Ports 1-16)	PoE Status	Solid Green	PD device insert and power feeding.
		Solid Amber	PD device insert but failure occurs. (PSE can't provide power to PD due to PD error or power budget is not enough.)
		Light off	No PD device insert

Hardware Installation

This chapter provides installation information for the D-Link DES-1018MPV2.

Grounding the Switch

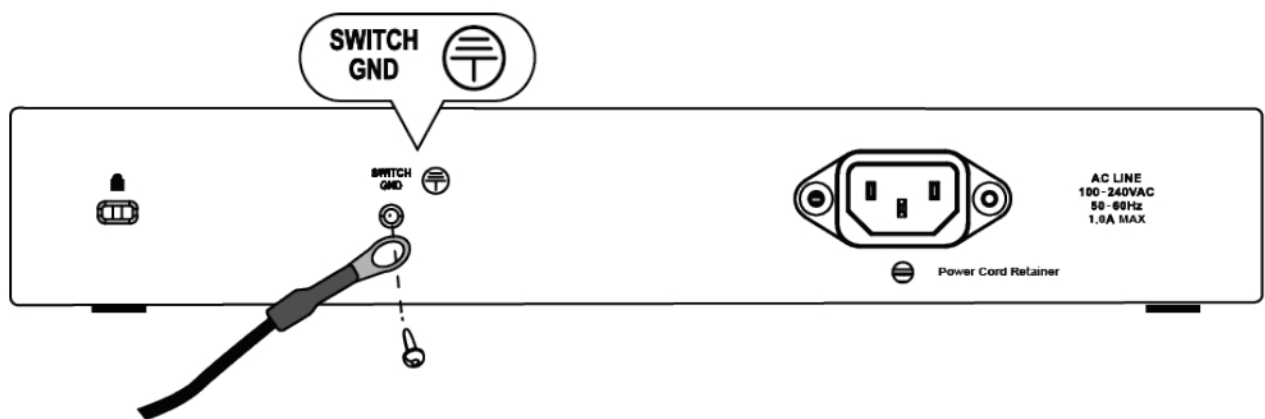
This section describes how to connect the Switch to the ground. You must complete this procedure before powering on your Switch.

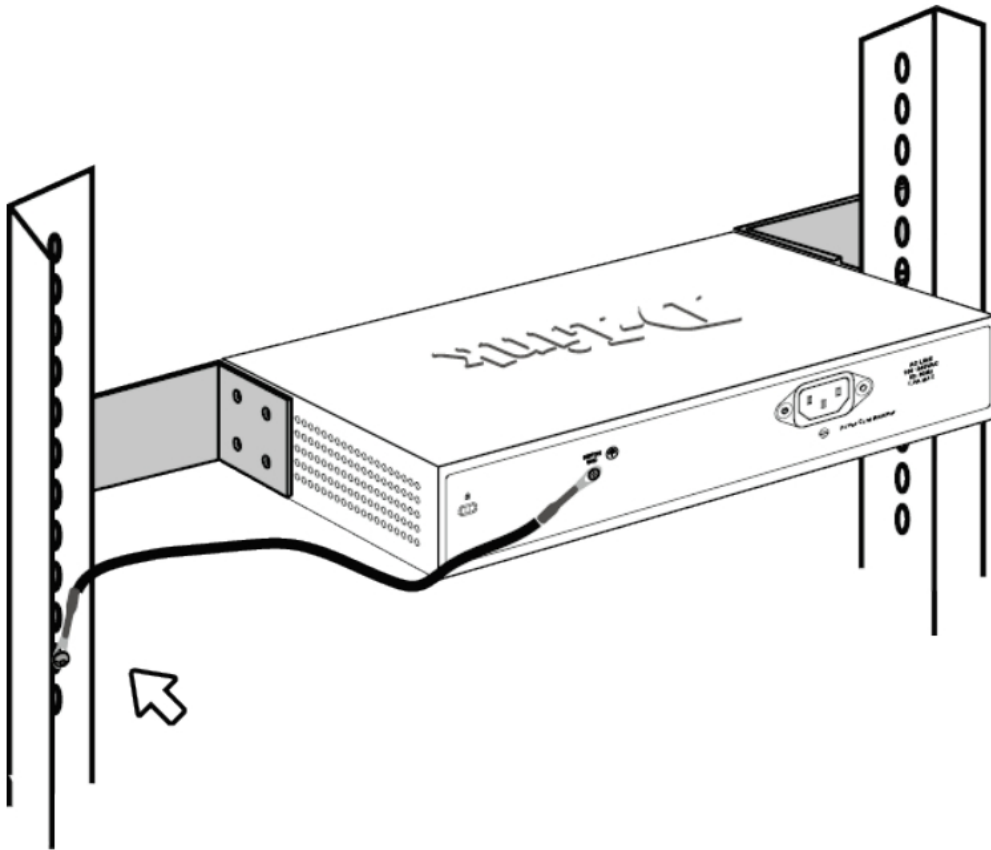
Required Tools and Equipment

- Ground screws (included in the accessory kit): One M4 x 6 mm (metric) pan-head screw
- Ground cable (not included in the accessory kit): The grounding cable should be sized according to local and national installation requirements. Depending on the power supply and system, a 12 to 6 AWG copper conductor is required for U.S. installation. Commercially available 6 AWG wire is recommended. The length of the cable depends on the proximity of the Switch to proper grounding facilities.
- A screwdriver (not included in the accessory kit)

The following steps let you connect the switch to a protective ground:

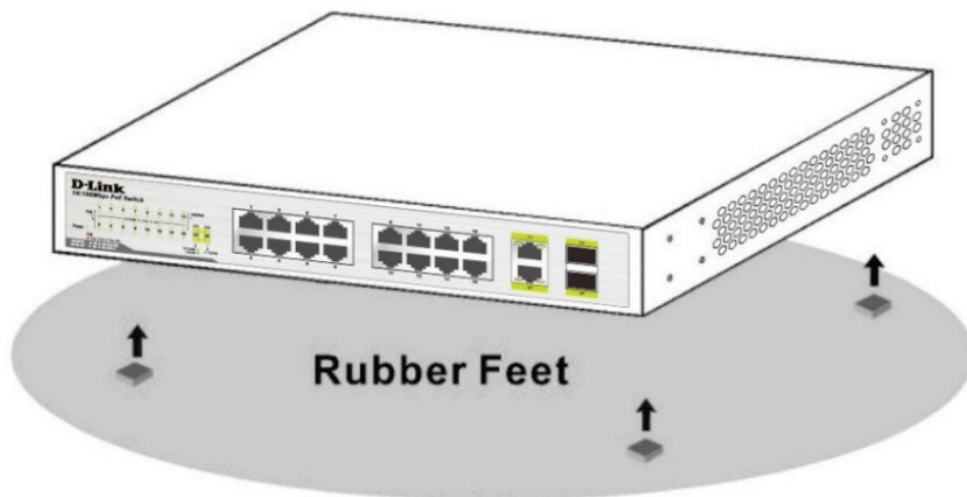
1. Verify if the system power is off.
2. Use the ground cable to place the #8 terminal lug ring on top of the ground-screw opening.
3. Insert the ground screw into the ground-screw opening.
4. Using a screwdriver, tighten the ground screw to secure the ground cable to the Switch.
5. Attach the terminal lug ring at the other end of the grounding cable to an appropriate grounding stud or bolt on the rack where the Switch is being installed.
6. Verify if the connections at the ground connector on the Switch and the rack are securely attached.





Attaching the Rubber Feet

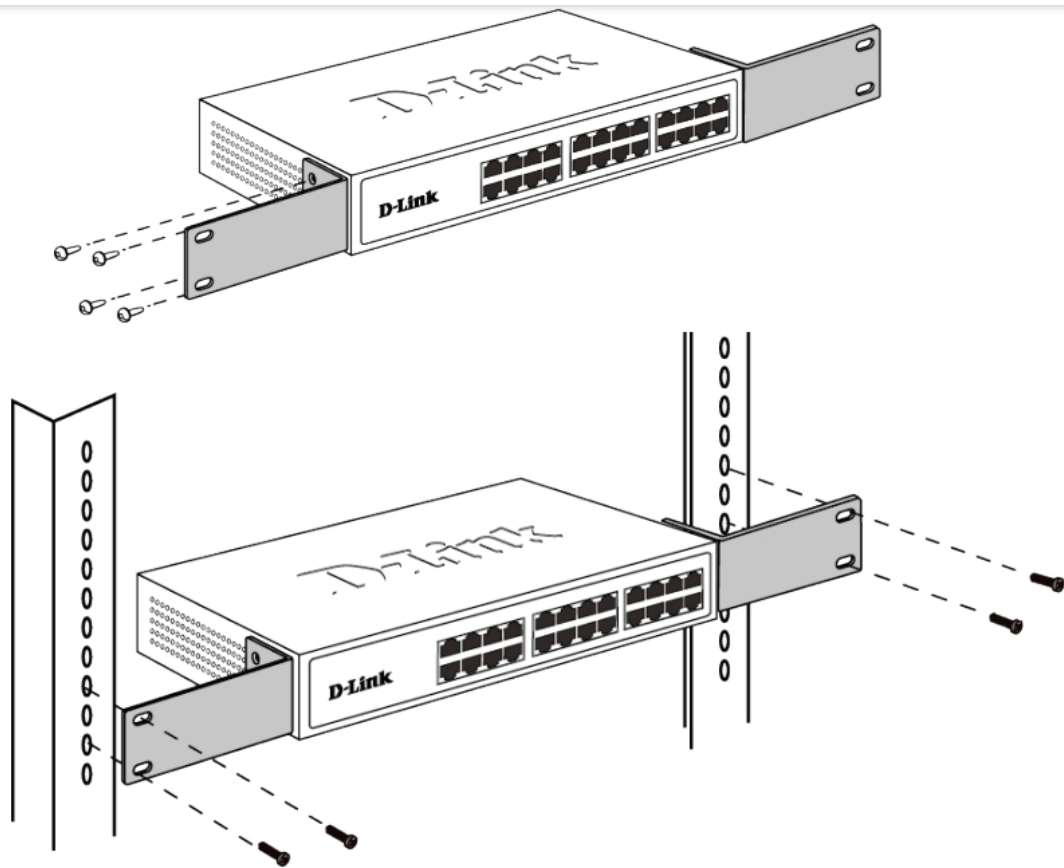
Use the provided rubber feet. Position and apply rubber feet to the underside of the Switch.



Attaching the Rubber Feet

Mounting the Switch on a Rack

The DES-1018MPV2 can easily be mounted on a rack. Two mounting ears are provided for this purpose. Make sure that the front panel is exposed in order to view the LEDs. Please refer to the following illustrations:



Mounting the Switch to a Rack

1. Attach the ears to each side of the Switch, using the screw-holes located on the side of the device.
2. Firmly attach the ears to the rack as shown. Please follow the usual safety precautions for rack-mountable products.

Provide for Adequate Ventilation



CAUTION: Do not place any devices on top of the Switch, or place the Switch on top of any device or object that will block the free flow of air through the ventilation slots on the sides, top, and bottom of the Switch's case. In addition, care should be taken not to place the Switch next to, on top of, or underneath any device that generates a significant amount of heat. For the Switch to perform at its optimal level, the Switch must have adequate ventilation to prevent the Switch from overheating and becoming damaged.

Technical Specifications

Performance

- Switching Capacity: 7.2 Gbps
- Max. Forwarding Rate: 5.35 Mpps
- Forwarding Mode: Store-and-forward
- Packet Buffer Memory: 512 KB

Port Functions

DES-1018MPV2 complies with the following standards.

- IEEE 802.3

- IEEE 802.3u
- IEEE 802.3x (Full-duplex flow control)
- IEEE 802.3z
- IEEE 802.3af/at

Physical & Environment

- Dimensions: 280 mm x 230 mm x 44 mm
- Internal Power Supply AC input: 100~240 VAC, 50~60Hz
- Acoustic: 48.9 dB
- Operation Temperature: 0~40°C
- Storage Temperature: -40~70°C
- Operation Humidity: 0%~95% RH
- Storage Humidity: 0%~95% RH

Emission (EMI) Certifications

- FCC class A
- CE Class A
- RCM

Safety Certifications

- LVD

PoE Features

- IEEE 802.3af/at compliant
- Supplies up to 30 watts of power per port.
- Total PoE budget: 247 watts.



Documents / Resources



[D-Link DES-1018MPV2 18 Port 10/100Base-TX Poe Unmanage Switch](#) [pdf] User Guide
DES-1018MPV2, 18 Port 10 100Base-TX Poe Unmanage Switch

References

- [CSR | D-Link](#)
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