

## Product Highlights

### Power Your Devices

Supports IEEE 802.3af Power-over-Ethernet (PoE) to power your PoE-capable network devices via Ethernet cables without the need for power adapters

### Reliability PoE Connections

Enhanced surge protection on all PoE ports protects the switch when feeding power to outdoor PoE-capable devices<sup>1</sup>

### Flexible Connectivity

All downlink ports support 10/100 Mbps speeds, and two Gigabit uplink ports provide a redundant, wired speed connection for reliable networking



## DES-1018P/DES-1018MP

# 18-Port Unmanaged Desktop PoE Switch

## Features

### Versatile Connectivity

- 8 (DES-1018P) or 16 (DES-1018MP) 10/100 Mbps PoE ports
- Two Gigabit combo uplink ports

### Reliability

- 2 kV surge protection for PoE ports
- IEEE 802.3x flow control

### Easy Setup

- Plug-and-play installation
- Auto MDI/MDIX crossover for all ports

### Green Features

- IEEE 802.3az Energy Efficient Ethernet
- Smart fan (DES-1018MP only)
- RoHS compliant

The D-Link<sup>®</sup> DES-1018P/DES-1018MP 18-Port Unmanaged Desktop PoE Switch enables users to easily connect and supply power to PoE-capable devices such as wireless Access Points (APs), IP cameras, and IP phones. The DES-1018P/DES-1018MP can also connect other Ethernet devices like computers, printers, and a Network Attached Storage (NAS) to fit into any type of network application.

## Power Over Ethernet IEEE 802.3af

The DES-1018P/DES-1018MP features 8 or 16 ports (respectively) that support the IEEE 802.3af PoE protocol. Each of the PoE ports can supply up to 15.4 watts, with a total PoE budget of 80 watts (DES-1018P) or 246.4 watts (DES-1018MP), allowing users to attach an IEEE 802.3af-compliant device to the DES-1018P/DES-1018MP without requiring additional power. PoE is especially suitable for devices that are far from power outlets or when users want to minimize the clutter of extra cables as power is supplied via the Ethernet cables themselves.

## Expand Your Network

The addition of two Gigabit combo uplink ports means businesses can increase their network bandwidth using the speed of Gigabit Ethernet while offering redundancy so voice and surveillance data are transferred reliably. The combo design can increase bandwidth by offering two Gigabit copper or fiber connections, giving administrators more options for expansion.

## Cut Your Energy Costs

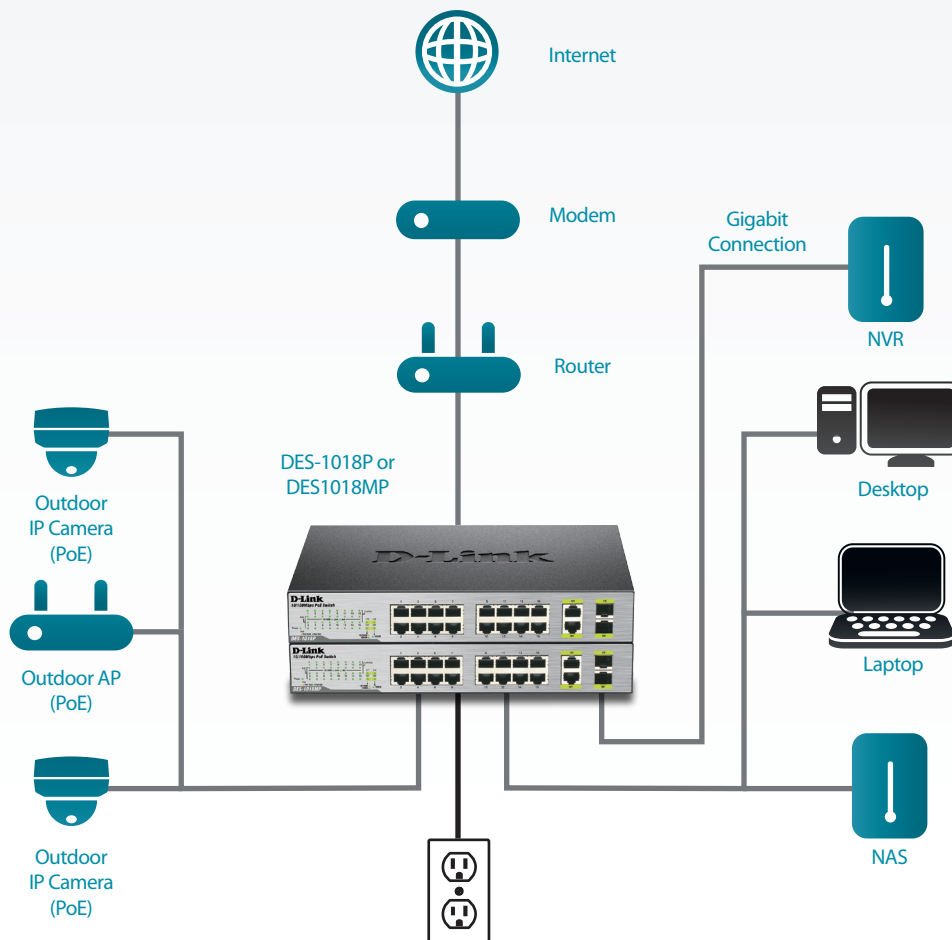
To help small businesses save on operating costs, the DES-1018P/DES-1018MP supports IEEE 802.3az Energy Efficient Ethernet (EEE). This feature senses network traffic to automatically put ports that are not being used to sleep, powering them on only when they are required. The DES-1018MP also features a smart fan that automatically adjusts itself to reduce power consumption and noise whenever possible to conserve energy, so users can reinvest the cost savings back into their business.<sup>2</sup>

### Hassle-Free Setup

The DES-1018P/DES-1018MP is a Plug-and-Play device that requires no configuration, so setup is simple and hassle-free. Simply connect the switch to a network and then connect multiple computers, share files, and make Voice-over-IP calls across the network. Support for Auto MDI/MDIX on all ports eliminates the need for crossover cables when connecting to another switch

or hub. Auto-Negotiation on each port senses the link speed of a network device (either 10 or 100) and intelligently adjusts for compatibility and optimal performance. Combining the convenience of PoE, fast performance, reliability, and ease of use, the 18-Port Unmanaged Desktop PoE Switch is the ideal choice for adding PoE devices to a network.

### Sample Configuration



Technical Specifications	DES-1018P	DES-1018MP
<b>General</b>		
Device Interfaces	<ul style="list-style-type: none"> <li>• 8 10 / 100 Mbps PoE, 8 10 / 100 Mbps ports</li> <li>• 2 10 / 100 / 1000BASE-T / SFP combo ports</li> </ul>	<ul style="list-style-type: none"> <li>• 16 10 / 100 Mbps PoE ports</li> <li>• 2 10 / 100 / 1000BASE-T / SFP combo ports</li> </ul>
Standards	<ul style="list-style-type: none"> <li>• IEEE 802.3 10BASE-T Ethernet</li> <li>• IEEE 802.3u 100BASE-TX Fast Ethernet               <ul style="list-style-type: none"> <li>• IEEE 802.3z</li> <li>• IEEE 802.3x Flow Control</li> </ul> </li> <li>• IEEE 802.3az Energy-Efficient Ethernet (EEE)</li> </ul>	
Switching Fabric	• 7.2 Gbps	
64 Byte Max. Forwarding Rate	• 5.36 Mpps	
Transmission Method	• Store-and-forward	
MAC Address Table	• 8k	
Packet Buffer	• 384 KB	
Media Interface Exchange	• Auto MDI/MDIX adjustment for all ports	
LED Indicators	<ul style="list-style-type: none"> <li>• Per unit: Power</li> <li>• Per port: Activity / Link and Speed</li> </ul>	• Per PoE port: Power fail, Power OK
Fan	• 1 fan	• 1 Smart fan
PoE Standard	• IEEE 802.3af	
PoE Ports	• Ports 1~8 up to 15.4 W per port	• Ports 1~16 up to 15.4 W per port
PoE Power Budget	• 80 watts	• 246.4 watts
Surge Protection	• Ports 1~8 up to 2 kV	• Ports 1~16 up to 2 kV
<b>Physical</b>		
Dimensions	• 11" x 8.3" x 1.7" (280 mm x 210 mm x 44 mm)	
Weight	• 1.78 kg (3.92 lbs)	• 2.15 kg (4.74 lbs)
Power	• Internal AC input: 100 ~ 240 VAC, 50~60 Hz	
Power Consumption	<ul style="list-style-type: none"> <li>• Maximum Power Consumption: 102.6 watts (PoE on), 14.3 watts (PoE off)</li> <li>• Standby Power Consumption: 7.1 W / 100 V, 8.3 W / 240 V</li> </ul>	<ul style="list-style-type: none"> <li>• Maximum Power Consumption: 301.6 watts (PoE on), 15.6 watts (PoE off)</li> <li>• Standby Power Consumption: 9.3 W/100 V, 10.5 W / 240 V</li> </ul>
Temperature	• Operating: 0 to 40 °C (32 to 104 °F)	• Storage: -40 to 70 °C (-40 to 158 °F)
Humidity	• Operating: 0% to 95% RH non-condensing	• Storage: 0% to 95% RH non-condensing
MTBF	• 395,864 hours	• 361,802 hours
Heat Dissipation	• 349.9 BTU/h	• 1029.5 BTU/h
Certifications	<ul style="list-style-type: none"> <li>• FCC Class A</li> <li>• CE</li> <li>• CCC</li> <li>• RoHS</li> </ul>	<ul style="list-style-type: none"> <li>• VCCI</li> <li>• BSMI</li> <li>• C-Tick</li> </ul>
Safety	<ul style="list-style-type: none"> <li>• CB</li> <li>• cUL</li> <li>• LVD</li> </ul>	<ul style="list-style-type: none"> <li>• CCC</li> <li>• BSMI</li> </ul>

# DES-1018P/DES-1018MP

## 18-Port Unmanaged Desktop PoE Switch

Order Information	
Part Number	Description
DES-1018P	8 Ports 10 / 100 Mbps PoE + 8 Ports 10 / 100 Mbps + 2 10 / 100 / 1000BASE-T / SFP Combo Ports Unmanaged Switch
DES-1018MP	16 Ports 10 / 100 Mbps PoE + 2 10 / 100 / 1000BASE-T / SFP Combo Ports Unmanaged Switch
Optional SFP Transceivers	
DEM-310GT	1000BASE-LX, Single-mode, 10 km
DEM-311GT	1000BASE-SX, Multi-mode, 550 m
DEM-312GT2	1000BASE-SX, Multi-mode, 2 km
DEM-314GT	1000BASE-LHX, Single-mode, 50 km
DEM-315GT	1000BASE-ZX, Single-mode, 80 km
DEM-330T / R	Gigabit WDM transceiver, Single-Mode, 10 km
DEM-331T / R	Gigabit WDM transceiver, Single-Mode, 40 km
DEM-302S-LX	1000BASE-LX, Single-Mode, 2 km
DEM-302S-BXD / BXU	Gigabit WDM transceiver, Single-Mode, 2 km

<sup>1</sup> Surge protection function available for PoE ports only.

<sup>2</sup> Energy savings from IEEE 802.3az Energy Efficient Ethernet (EEE) are dependent on actual usage scenarios.

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