D-Link
Building Networks for People

Product Highlights

Power-over-Ethernet

Allows for flexible installation for wireless access points, network cameras or IP phones, providing power and network connectivity with a single Ethernet cable

Reliable PoE Connections

Enhanced surge protection on all PoE ports protects the switch especially when supplying power to outdoor PoE-capable devices[1]

Flexible Connectivity

16 Fast Ethernet ports and 2 Gigabit uplink ports provide redundant, wired speed connection for reliable networking

DES-1018P

18-Port Fast Ethernet PoE Switch with 2 Gigabit Uplink Ports

Features

Versatile Connectivity
- 8 x 10/100 Mbps PoE ports
- 8 x 10/100 Mbps ports
- 2 x 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
- RoHS compliant

The D-Link DES-1018P 18-Port Fast Ethernet PoE Switch with 2 Gigabit Uplink Ports enables users to easily connect and supply power to PoE-capable devices such as wireless access points (APs), network cameras, and IP phones. The DES-1018P can also connect other Ethernet devices like computers, printers and network attached storage (NAS) to fit into any type of network application.

Power Over Ethernet IEEE 802.3af

The DES-1018P features 8 ports 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, allowing users to attach an IEEE 802.3af-compliant device to the DES-1018P without requiring additional power. PoE is especially suitable for devices that are far from power outlets or when users want to minimise the clutter of extra cables as power is supplied via the Ethernet cables themselves.

Expand Your Network

The addition of 2 Gigabit combo uplink ports means businesses can increase their network bandwidth via wired speed while offering redundancy so voice and surveillance data are transferred reliably. The combo design can increase bandwidth by offering two Gigabit copper or fibre connections, giving administrators more options for expansion.

Cut Your Energy Costs

To help small businesses save on operating costs, the DES-1018P supports IEEE 802.3az Energy Efficient Ethernet (EEE). This feature senses network traffic to automatically put ports that are not being used to sleep and also powers them on as required[2].

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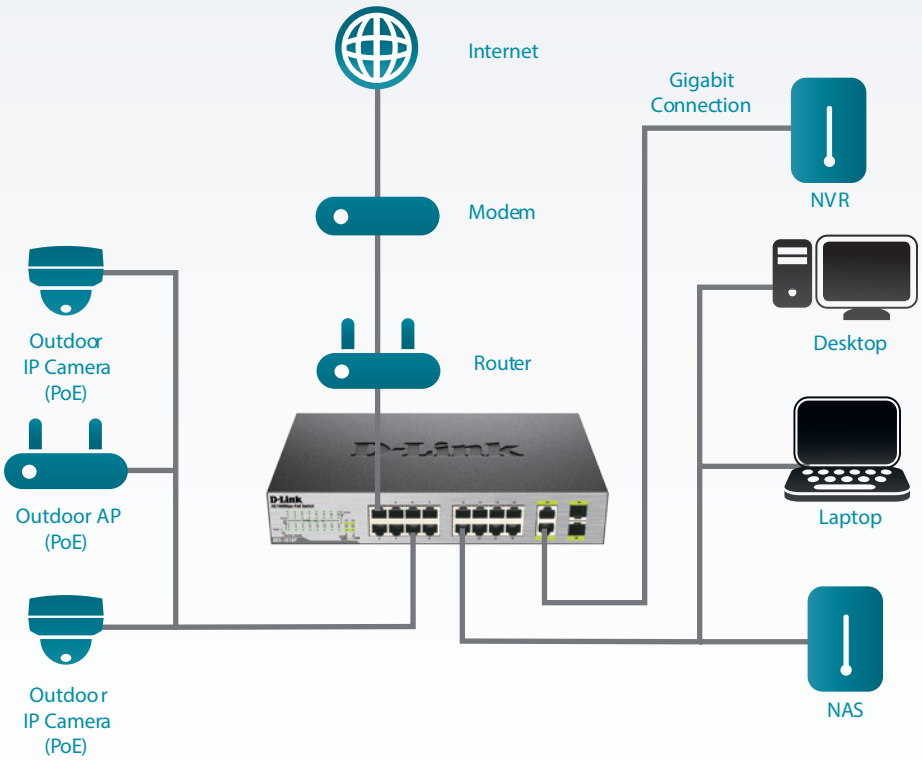
Hassle-Free Setup

The DES-1018P is a plug and play device that requires no configuration, so setup is simple and hassle-free. Simply connect the switch to a network to connect multiple computers, share files and make VoIP calls. Support for Auto MDI/MDI-X 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 Fast Ethernet PoE Switch with 2 Gigabit Uplink Ports is the ideal choice for adding PoE devices to a network.

Network Diagram



DES-1018P
18-Port Fast Ethernet PoE Switch with 2 Gigabit Uplink Ports

Technical Specifications

General

Device Interfaces	• 8 10/100 Mbps PoE ports • 8 10/100 Mbps ports	• 2 10/100/1000BASE-T/SFP combo ports
Standards	• IEEE 802.3 10BASE-T Ethernet (twisted-pair copper) • ANSI/IEEE 802.3 NWay auto-negotiation • IEEE 802.3x flow control	• IEEE 802.3x Flow Control • IEEE 802.3az Energy-Efficient Ethernet (EEE)
Switching Fabric	• 1.6 Gbps switching fabric	
64 Byte Max. Forwarding Rate	• 5.36 Mpps	
Transmission Method	• Store-and-forward	
MAC Address Table	• 8k	
Packet Buffer	• 384 Kbytes	
Media Interface Exchange	• Auto MDI/MDIX adjustment for all ports	
LED Indicators	• Per unit: Power • Per port: Activity / Link and Speed	• Per PoE port: Power fail, Power OK
Fan	• 1 fan	
PoE Standard	• IEEE 802.3af	
PoE Ports	• Ports 1~8 up to 15.4 W per port	
PoE Power Budget	• 80 watts	
Surge Protection	• Ports 1~8 up to 2 kV	

Physical

Dimensions	• 11" x 8.3" x 1.7" (280 mm x 210 mm x 44 mm)	
Weight	• 1.78 kg (3.92 lbs)	
Power	• Internal AC input: 100 ~ 240 VAC, 50~60 Hz	
Power Consumption	• Maximum Power Consumption: 102.6 watts (PoE on), 14.3 watts (PoE off) • Standby Power Consumption: 7.1 W/100 V, 8.3 W/240 V	
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	
Heat Dissipation	• 349.9 BTU/h	
Certifications	• FCC Class A • CE • CCC • RoHS	• VCCI • BSMI • C-Tick
Safety	• CB • cUL • LVD	• CCC • BSMI

[1] Surge protection function available for PoE ports only.
[2] Energy savings from IEEE 802.3az Energy Efficient Ethernet (EEE) are dependent on actual usage scenarios.

For more information: www.dlink.com

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