

Product Highlights

Designed for Surveillance

The DSS-100E-18P features three modes: Standard, Isolate, and Extend modes allow users to choose the interface best suited for their deployments needs

Long-Reach Extension

Ports 9-16 support extended PoE with data transmission of up to 250 meters to supply power in far-reaching network deployments

High Level Protection

Each port and the power supply are equipped with 6kV surge protection, enhancing safety for the switch and all connected devices



DSS-100E-18P

18-Port PoE Unmanaged Surveillance Switch

Features

Versatile Connectivity

- 16 x 10/100 Mbps PoE ports
 - Supplies up to 30 W per port, with a 230 W total power budget
- 1 x Gigabit Ethernet port and 1 x GbE/SFP combo uplink port

Surveillance Network

- Standard, Isolation and Extend modes configured by a DIP switch on the front panel
- High ESD 6kV surge protection for both PoE ports and power supply
- Long-reach 250 m PoE connection with further extension configurations of up to 650 m
- Equipped with 2 x uplink ports to fulfil the needs of a cascade surveillance network without occupying ports for IP cameras

The D-Link DSS-100E-18P 18-Port PoE Unmanaged Surveillance Switch with 16 IEEE 802.3at compatible ports, the DSS-100E-18P enables users to easily connect and supply power to PoE-capable devices, such as wireless Access Points (APs), IP cameras, Network Attached Storage (NAS) and IP phones. Your network is at the center of any physical security system, responsible for securely streaming and saving surveillance footage. With robust security, ample network bandwidth and low latency connections, the DSS-100E-18P offers a cost-effective solution to maintain a secure, reliable and compliant surveillance network.

Surveillance-Minded DIP Switch

Effortlessly adjust the DSS-100E-18P's operation configuration with a tri-mode DIP switch, conveniently located on the device's front panel. D-Link's DSS-100E-18P 18-Port PoE Unmanaged Surveillance Switch has three operating modes; Standard, Isolation and Extended modes, each with their own use cases. Standard mode optimally is for connections up to 100 m, supporting 10/100 Mbps per port with priority to ports 1-8 to optimize port cache. Isolation mode prevents port to port communications, permitting ports 1-16 to communicate solely through ports 17-18, where strengthened security measures are implemented. Extended mode utilizes long-reach PoE connections, where ports 9-16 support 250 m connections while ports 1-8 support standard 100m connections.

Long-Reach PoE Connection

The DSS-100E-18P supports long-range PoE connection configurations, simplifying the issues of distance, power source, and cable deployment for your network systems. Extend connection distances with reduced power transmission loss. Utilize 250 m PoE cable connections at transmission speeds of 10 Mbps. Take advantage of D-Link's GE PoE Extenders to power devices up to 650 m away, making the DSS-100E-18P 18-Port PoE Unmanaged Surveillance Switch the ideal choice for deploying PoE devices to your network, no matter your deployment's location.

Resilient 6kV Surge Protection

The DSS-100E-18P is equipped with 6kV surge protection, keeping this switch safe against lightning strikes or other power related incidents. This shield prevents PoE devices from electrical damage, ensuring your vital surveillance systems continue functioning, completely uninterrupted. In the event of an electrical emergency, the DSS-100E-18P will safeguard your cameras, storage devices while keeping your network running, providing reliability and robustness when it counts the most.

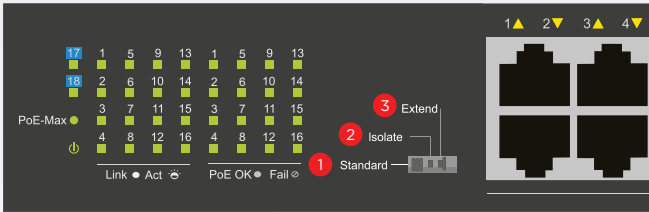
Power Over Ethernet IEEE 802.3af/at

The DSS-100E-18P features 16 IEEE 802.3af and IEEE 802.3at PoE protocol compatible ports. Each of the PoE ports can supply up to 30 watts, with a total PoE budget of 230 watts, allowing users to attach an IEEE 802.3af or IEEE 802.3at-compliant device to the DSS-100E-18P 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 one Gigabit Ethernet port and one GbE/SFP combo uplink port means businesses can increase their network bandwidth using the speed of Gigabit Ethernet while offering redundancy so that voice and surveillance data are transferred reliably. The combo design can increase bandwidth by offering Gigabit copper or fiber connections, giving administrators more options for expansion.

DIP Switch



1 Standard Mode

Ports 1-16 support standard 100 m PoE at 10/100 Mbps per port.

Ports 1-8 support port priority to optimize port cache.

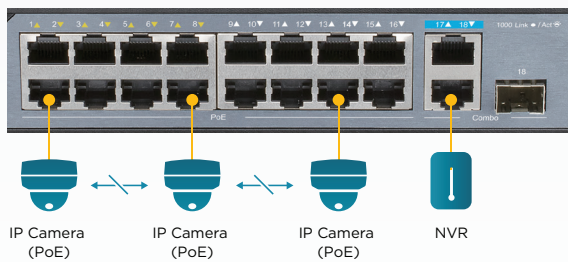
Supports **100 m** PoE Distance
Transmits data at 10/100 Mbps per port



Supports **Port Priority** to optimize port cache

2 Isolation Mode

Enhances security, restricting ports 1-16 to individually communicate with ports 17 & 18.



3 Extend Mode

Ports 1-8 support standard 100 m PoE at 10/100 Mbps per port.

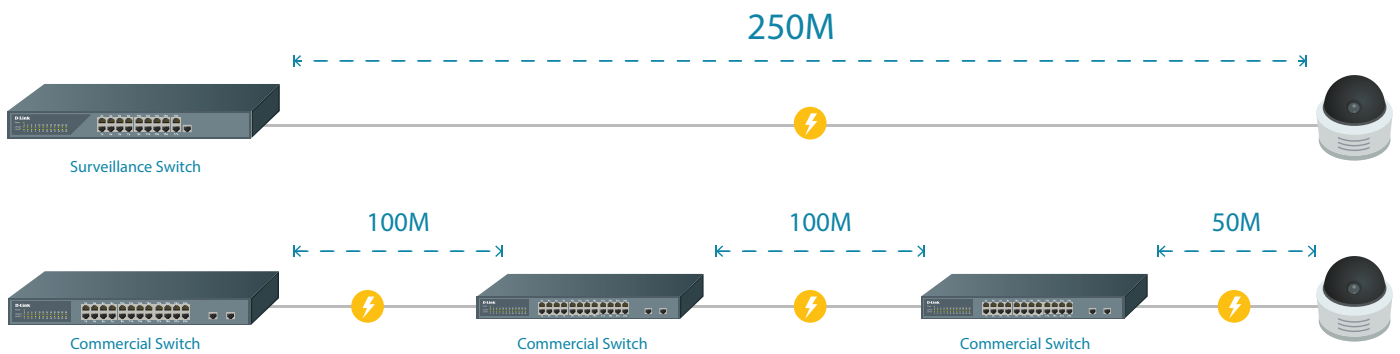
Ports 9-16 support PoE at distances up to 250m with transmissions speeds of 10 Mbps per port.

Supports **100 m** PoE Distance
Transmit data at 10/100 Mbps per port

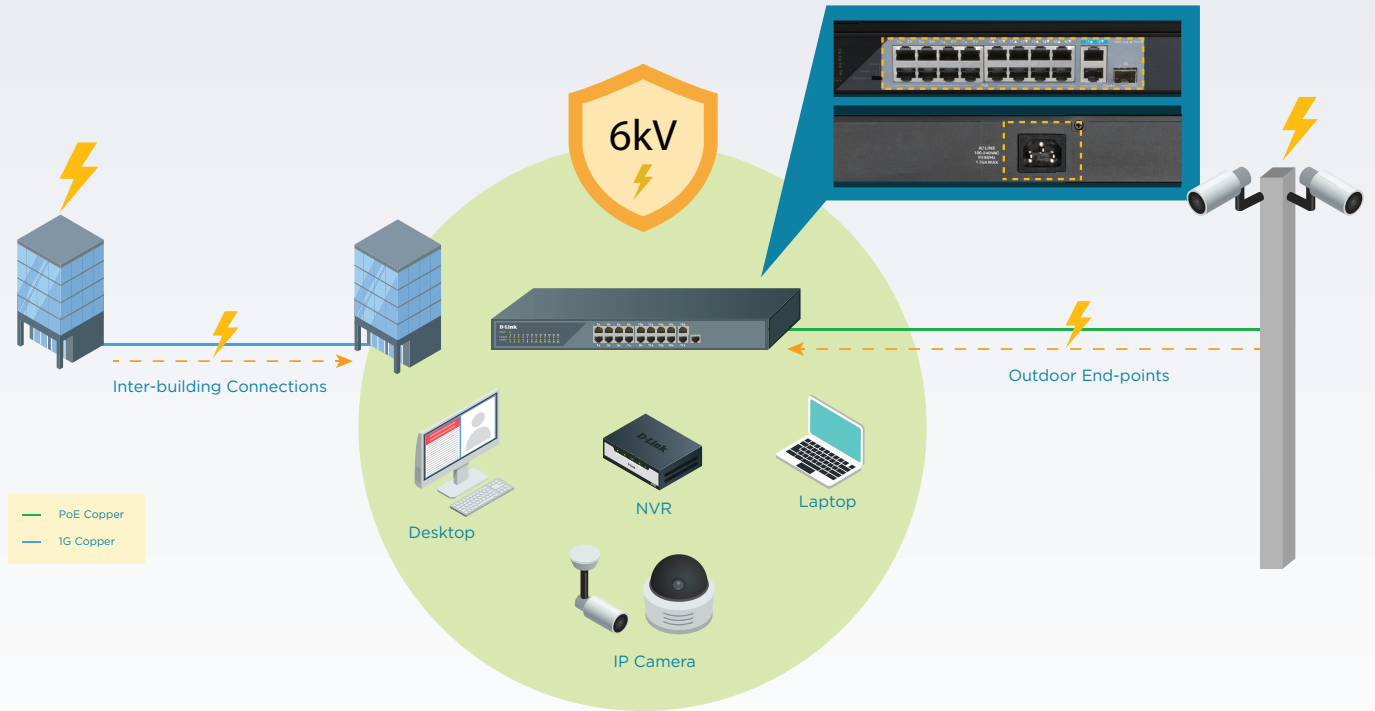


Supports **250 m** PoE Distance
Transmit data at 10 Mbps per port

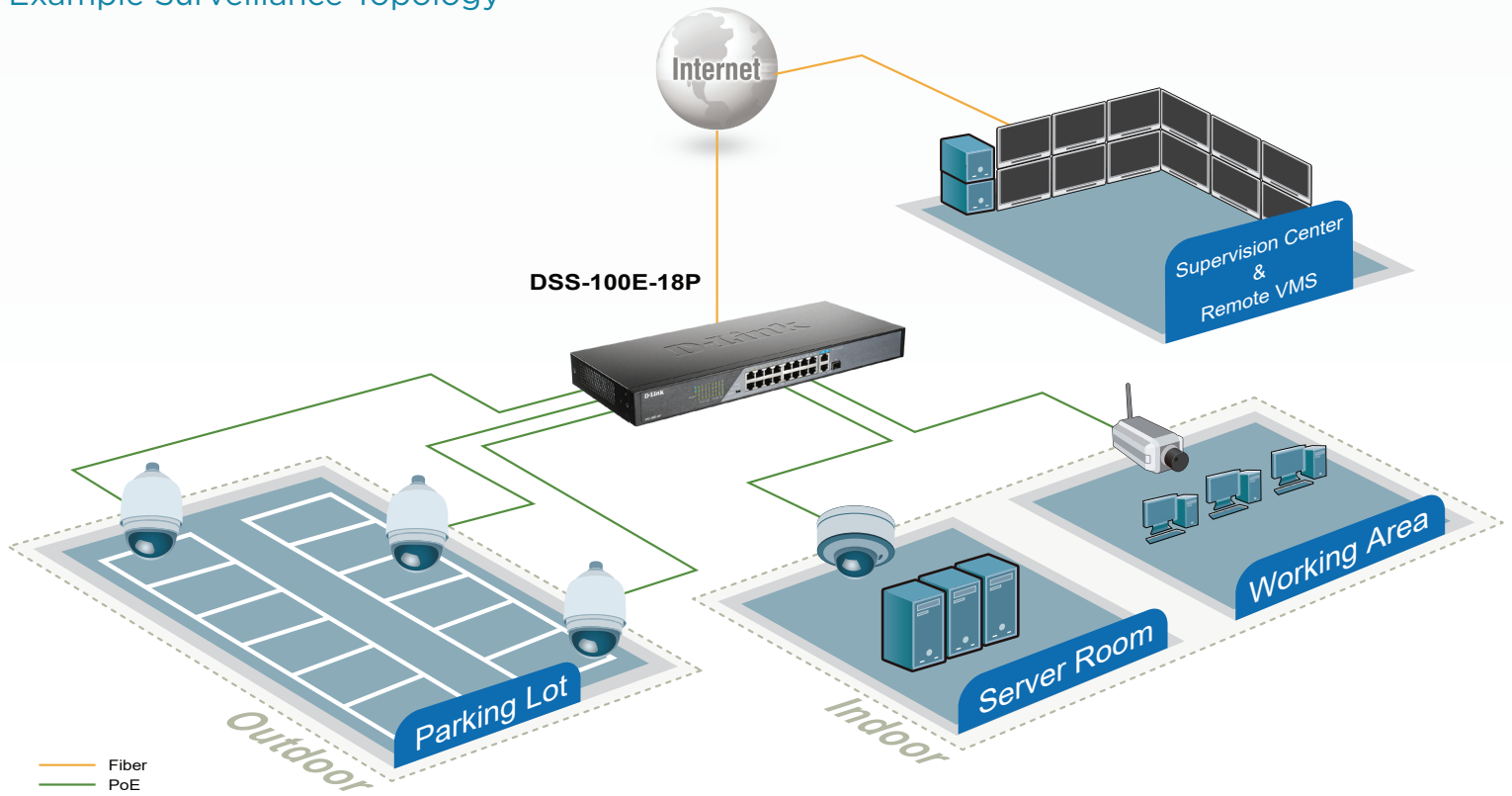
Long-Range Ethernet



6k Surge Protection



Example Surveillance Topology



Technical Specifications

General

Device Interfaces	<ul style="list-style-type: none"> • 16 x 10 / 100 Mbps PoE ports • 1 x 1000BASE-T port • 1 x 100 / 1000BASE-T / SFP combo port
Standards	<ul style="list-style-type: none"> • IEEE 802.3 100BASE-T Ethernet • IEEE 802.3u 100BASE-TX Fast Ethernet • IEEE802.3ab • IEEE 802.3z • IEEE 802.3x Flow Control
Switching Fabric	<ul style="list-style-type: none"> • 7.2 Gbps
64 Byte Max Forwarding Rate	<ul style="list-style-type: none"> • 5.36 Mpps
Transmission Method	<ul style="list-style-type: none"> • Store-and-forward
MAC Address Table	<ul style="list-style-type: none"> • 4k
Packet Buffer	<ul style="list-style-type: none"> • 2.75 Mbits
Media Interface Exchange	<ul style="list-style-type: none"> • Auto MDI/MDIX adjustment for all ports
LED Indicators	<ul style="list-style-type: none"> • Per unit: Power • Per port: Activity / Link and Speed • Per PoE port: Power fail, Power OK
Fan	<ul style="list-style-type: none"> • 1 Fan
PoE Ports	<ul style="list-style-type: none"> • Ports 1~16 up to 30 watts per port
PoE Power Budget	<ul style="list-style-type: none"> • 230 watts
Surge Protection	<ul style="list-style-type: none"> • Ports 1~18 up to 6 kV
Physical	
Dimensions	<ul style="list-style-type: none"> • 440 mm x 178 mm x 44 mm (17.32 x 7.01 x 1.73 in)
Weight	<ul style="list-style-type: none"> • 2.137 kg (4.71 lbs)
Power	<ul style="list-style-type: none"> • Internal AC input: 100 ~ 240 V
Power Consumption	<ul style="list-style-type: none"> • Maximum Power Consumption: 265 watts (PoE on), 16.89 watts (PoE off) • Standby Power Consumption: 9.63 watts / 240 V
Temperature	<ul style="list-style-type: none"> • Operating: 0 to 40 °C (32 to 104 °F) • Storage: -40 to 70 °C (-40 to 158 °F)
Humidity	<ul style="list-style-type: none"> • Operating: 0% to 95% RH non-condensing • Storage: 0% to 95% RH non-condensing
MTBF	<ul style="list-style-type: none"> • 30000 hours
Heat Dissipation	<ul style="list-style-type: none"> • Power On (Standby, no PD device connected): <ul style="list-style-type: none"> • AC input: 33.4 BTU/h • Maximum: <ul style="list-style-type: none"> • AC input: 885.3 BTU/h
Certifications	<ul style="list-style-type: none"> • CE • RoHS • C-Tick • FCC
Safety	<ul style="list-style-type: none"> • LVD • UL • CB

DSS-100E-18P 18-Port PoE Unmanaged Surveillance Switch

Order Information	
Part Number	Description
DSS-100E-18P	16 Ports 10 / 100 Mbps PoE + 1 10 / 100 / 1000Mbps + 1 Combo 10 / 100 / 1000Mbps /SFP Combo Ports Unmanaged Surveillance 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

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