D-Link®
Building Networks for People

Product Highlights

PoE Power Budget (PoE)
IEEE 802.3at PoE on ports 1 to 6 & IEEE 802.3bt on port 7 & 8 allow powering of PoE-powered devices
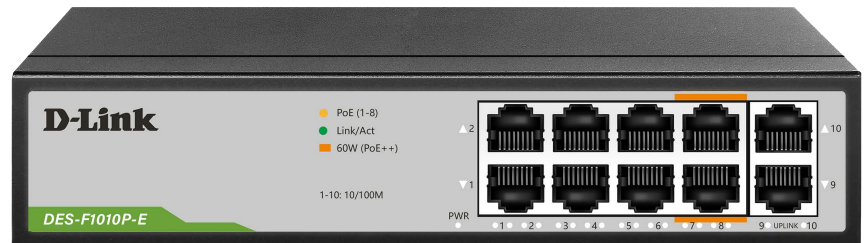
PoE Power Budget
93W PoE power budget simultaneously powering multiple PoE-compatible devices

Extender Reach
Wider installation coverage reaching PoE-powered devices up to 250m away

93W PoE++ (802.3bt)

DES-F1010P-E
250m 10-Port 10/100 Switch with 8 PoE Ports

Features

High-Speed Networking
 • Ten (10) 10/100Mbps Ethernet ports
 • Full/half-duplex for Ethernet/Fast Ethernet

PoE Functionality
• Eight (8) PoE ports
• IEEE 802.3af/at compliant (port 1-6)
• IEEE 802.3af/at/bt compliant (port 7-8)
• 93 W total power budget
• Up to 30W (port 1-6) & 60W (port 7-8) PoE power output

Reliability
 • IEEE 802.3x flow control
 • Store-and-forward switching scheme
 • RoHS-compliant
 • 6kV lightning protection
 • Built-in power supply

Easy Setup
 • Plug-and-play installation
 • Auto MDI/MDI-X crossover on all ports

Stylish Design
 • Compact lightweight metal chassis
 • Noise-free operation

The D-Link DES-F1010P-E 10-Port 10/100Mbps Switch with 8 PoE & 2 uplink Ports enables you to connect Power over Ethernet (PoE) devices such as wireless access points (APs), IP cameras, and IP phones to the network. The DES-1010P-E is compact and operates silently, making it ideal for most rooms and offices.

Power over Ethernet

The DES-1010P-E features eight (8) 10/100BASE-T ports that support the IEEE 802.3af, IEEE 802.3at, and IEEE 802.3bt (Port 7-8 only) PoE protocols, supplying up to 30W on PoE port 1-6 & 60W on PoE port 7-8 and providing a total power budget of 93W. You can connect PoE compatible devices to the DES-1010P-E without using an additional power supply. This allows you to save on cost of cabling and to install devices in locations without immediate access to power outlets.

Compact and Silent

The compact design of the DES-1010P-E allows placement in most locations, including those where space is at a premium. The desktop form factor provides everything you need to set up a new network or expand an existing network, while the fanless design ensures silent operation even in noise-sensitive areas such as workstations and meeting rooms.

6 kV Surge Protection

The DES-F1010P-E features built-in 6kV surge protection on ten (10) 10/100Mpbs Ethernet ports and requires no external surge protection equipment. This effectively protects the switch against sudden electrical surges caused by events such as lightning strikes or unstable electrical current. Built-in 6kV surge protection significantly reduces the chances of equipment being damaged from electrical surges, and effectively lowers maintenance costs by minimizing the need for expensive equipment repairs or replacement.

High Power PoE++

Port 7-8 of the DES-F1010P-E is designed to meet the latest 802.3bt standards, delivering an impressive 60W PoE power output. This high-power capability empowers the connection of advanced corporate IoT devices, such as high-speed WiFi 6 access points, high-resolution PTZ IP cameras with optical zoom, all-in-one (AIO) touch PCs, PoE LED lighting, and more. The DES-F1010P-E is a versatile PoE switch ideally suited for networking and automation devices within corporate environments.
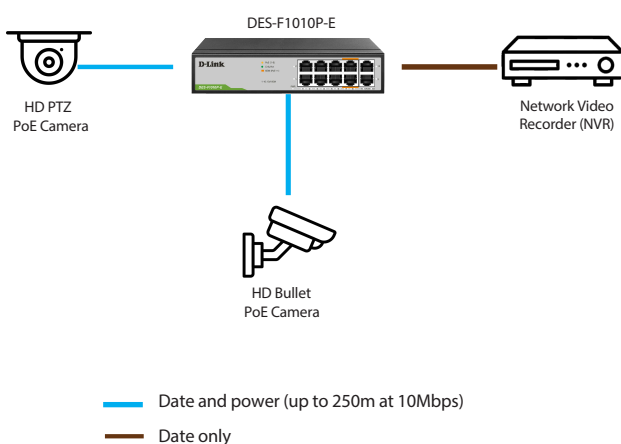
Extended Reach

The DES-F1010P-E boasts an extended distance capability for both PoE and data transmission, delivering a broader installation coverage range of up to 250 meters while maintaining a reliable data transfer rate of 10Mbps. Without the need for additional DIP switches, the DES-F1010P-E is equipped with automatic detection capabilities that accurately determine the distance between the PoE switch and remote PoE devices. Engineered to accommodate wide range of home and office automation PoE devices, including CCTV/IP cameras, sensors, and alarms, the DES-F1010P-E ensures a flexible and effortless installation experience.
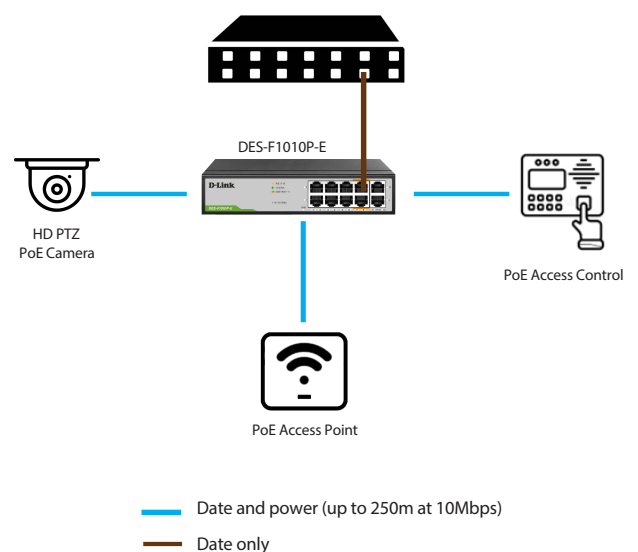
Intelligent WDG

Restoring the operation of malfunctioning PoE devices can often be a cumbersome task. However, the DES-F1010P-E is equipped with a Watchdog (WDG) feature designed to monitor the operational behavior of connected IoT devices. In cases where no data transmission is detected from a remote PoE device for an extended period (~180-240 seconds), the DES-F1010P-E will automatically restore the device to the normal operation by power-cycling the PoE port. This intelligent feature guarantees the uninterrupted and seamless performance of IoT devices, requiring minimal effort and reducing maintenance costs.

IP Cameras / CCTV for SOHO

DES-F1010P-E

HD PTZ
PoE Camera

Network Video
Recorder (NVR)

HD Bullet
PoE Camera

Date and power (up to 250m at 10Mbps)
Date only

IT and Automation for Offices

DES-F1010P-E

HD PTZ
PoE Camera

PoE Access Control

PoE Access Point

Date and power (up to 250m at 10Mbps)
Date only

Technical Specifications

General

Hardware Version	• H3
Size	• Desktop
Number of Ports	• 8 x 10/100Mbps (PoE | RJ-45) • 2 x 10/100Mbps (RJ-45)
6kV Lightning Protection	• 10 x 10/100Mbps (RJ-45)
Port Standards	• IEEE 802.3i for Ethernet • IEEE 802.3u for Fast Ethernet • IEEE 802.3af/at/bt • Auto-negotiation • Supports half/full-duplex operation • Auto MDI/MDIX • IEEE 802.3x Flow Control supports full-duplex mode

Performance

Switching Capacity	• 2 Gbps
Transmission Method	• Store-and-forward
Maximum Forwarding Rate	• 1.49Mpps per switch • Ethernet: 14,880 pps per port • Fast Ethernet: 148,800 pps per port
MAC Address Table Size	• 2K Entries
Packet Buffer (if any)	• 1Mbits

PoE

PoE Standards	• IEEE 802.3af/ 802.3at (Port 1-6) • IEEE 802.3af/ 802.3at /802.3bt (Port 7-8 | 60 Watts)
PoE Capable Ports	• Ports 1 to 8
PoE Power Budget (Per Switch)	• 93 Watts

Working Modes

250m Extended Distance (Up to 10Mbps)	• Port 1 - 8 (Auto Detection)
Watchdog (WDG)	• Port 1 - 4 (Auto Detection)

Power Consumption

Standby Mode	• 4W
Maximum Power Consumption	• 96 W (PoE On)

Physical	
Power Input	• 100 to 240 V AC • 50 to 60 Hz Internal Power Supply
Weight	•1.1 kg
Dimensions	• 190 x 131 x 40m (LxWxH)
Ventilation	• Fanless
Operating Temperature	• 0 °C to 40 °C
Storage Temperature	• -40 °C to 70 °C
Operating Humidity	• 10% to 90% non condensing
Storage Humidity	• 5% to 90% non-condensing
EMI	• FCC CFR47 Part 15, EN55022/CISPR22, Class A
Safety	• CE / RoHS / FCC

The 250m long range mode is subject to cabling quality and/or IP camera's electrical design. Compatibility testing is recommended prior to use. UTP CAT5e rated cables (or higher) are required.