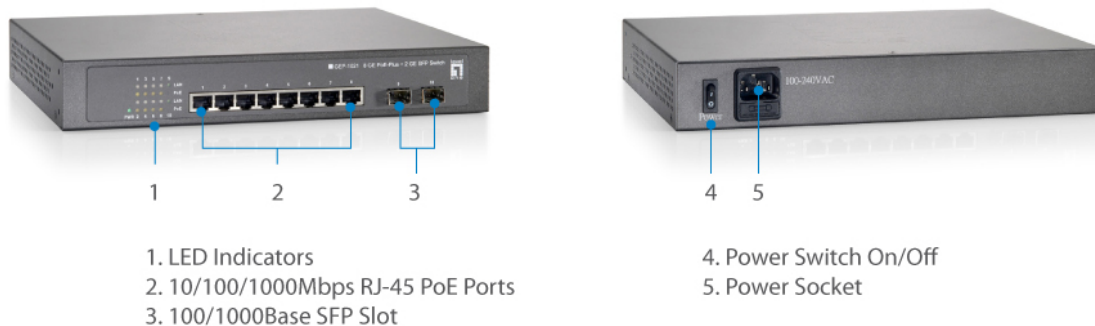


GEP-1021 Version: 1



## 10-Port Gigabit PoE Switch, 802.3af/at PoE, 2 x SFP, 8 PoE Outputs, 250W

LevelOne GEP-1021 provides 8 x 10/100/1000Base-T PoE-Plus ports and 2 x 1000Base-X SFP (Small Form Factor Pluggable) slots. This switch is IEEE 802.3af/at compliant, providing power and data over a single Ethernet cable to any PoE device, with total power budget of 250W, up to 30W per port. Together with Energy Efficient Ethernet (IEEE 802.3az) standard compliant, it substantially lower power consumption during periods of low-link utilization. Moreover, supports Gigabit Ethernet connectivity with 9K jumbo frames for network performing enhancement. Ideal for small businesses that prefers an affordable solution for PoE deploying infrastructure.



### Key Features

- 8 Gigabit PoE ports and 2 Gigabit SFP slots
- IEEE 802.3af/at PoE compliant to simplify deployment and installation
- 9K jumbo frames to increase data transfer rates
- Supports 8K MAC address auto-learning and auto-aging
- Auto-detection and protection of non-standard PoE devices
- Minimize carbon footprint with advanced energy efficient technology (IEEE 802.3az)
- 19-inch rackmount kit included
- Total PoE power budget: 250W, up to 30W per port



## Highlight

### Eco-Conscious Design

LevelOne is always committed to providing significant energy savings products. With the implementation of the advanced energy efficiency technology (IEEE 802.3az), allowing for monitoring the link status of each port. Therefore reducing power consumption if a connected device is not active at a certain period of time. In this way, the power can be saved and utilized more effectively.

## Specifications

### System Specifications

#### Standards & Protocols:

IEEE 802.3 10-BASE-T, Ethernet  
IEEE 802.3u 100-BASE-TX, Fast Ethernet  
IEEE 802.3ab 1000BASE-T, Gigabit Ethernet  
IEEE 802.3x Flow Control (full-duplex flow control)  
IEEE 802.3af Power over Ethernet (PoE)  
IEEE 802.3at Power over Ethernet Plus (PoE+)  
IEEE 802.3az Energy-Efficient Ethernet

#### Buffer Memory:

512KB

#### Port:

8 x 10/100/1000Base-T RJ-45 PoE-Plus Ports  
2 x 100/1000Base-X SFP Slots

#### Indicator:

Power; Link/Active; PoE

#### Transmission Method:

Store-and-Forward

#### Power Input:

100-240V AC, 50-60 Hz, Internal Power Supply

#### Power Consumption:

< 250W

#### Backplane (Gbps):

16Gbps

#### MAC Address Table:

8K

#### Data Rate:

10/100/1000Mbps

### Features

#### General:

Flow Control: Backpressure (Half Duplex), Pause frame(Full Duplex)

#### PoE:

Power Budget: Max. 250W

Power Output: Up to 30W per port

Protection: Circuit protection to prevent power interference between ports

Pin Assignment: 1/2(+), 3/6(-)

### Performance

#### Packet Forwarding Rate:

1000Mbps port - 1,488,000pps

100Mbps port - 148,000pps

10Mbps port - 14,880pps

Jumbo Frame (K):  
9KB

## Environment

### Power Saving:

IEEE 802.3az Energy Efficient Ethernet:

- Automatically turns power off on RJ-45 port when detecting link down or Idle of client
- Cable length detection: Adjusts the signal strength based on the cable length
- Reduces the power consumption for cables shorter

### Operating Temperature (°C):

Operating: 0°C ~ 40°C

Storage: -40°C ~ 70°C

### Operating Humidity (Non-condensing):

Storage: 5% ~ 90%

Operating: 5% ~ 90%

### Installation:

19-inch rack-mountable

## Physical Specifications

### Dimensions (W x D x H mm):

280 x 215 x 44 mm

### Weight (g):

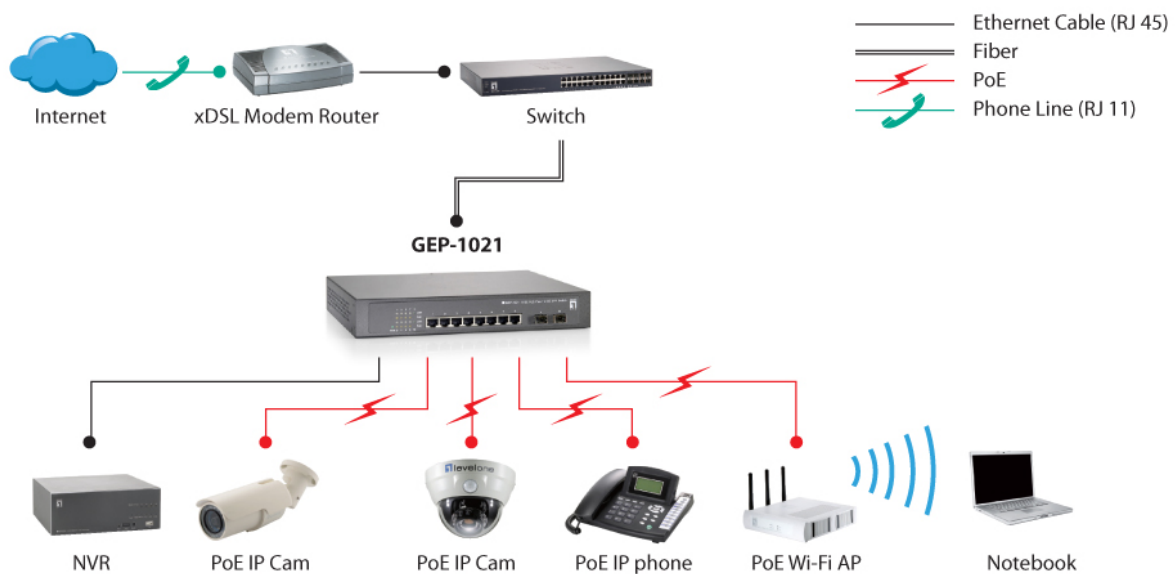
2500g

## Approval and Compliance

### EMI/EMS:

FCC Part 15 Class A, CE, RoHS

## Diagram





## Order Information

GEP-1021

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## Package Contents

GEP-1021

Power Cord

19" Rack Mount Kit

Quick Installation Guide

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