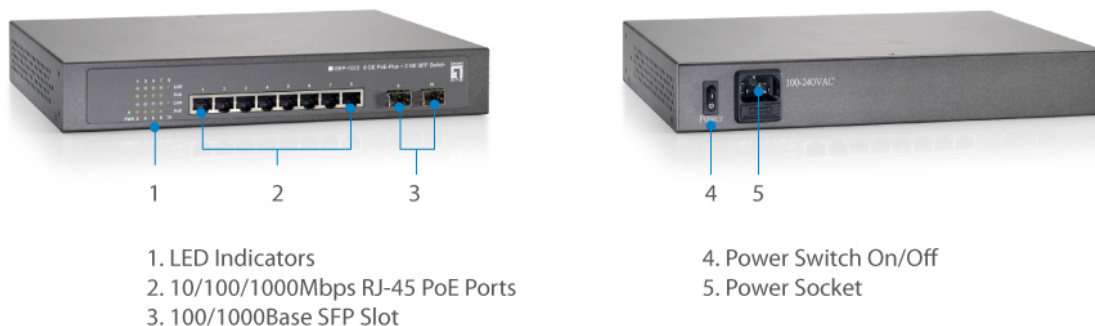


GEP-1020 Version: 1



## 8 GE PoE-Plus + 2 GE SFP Switch, 150W

LevelOne GEP-1020 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 150W, 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 PoE-Plus Gigabit Ethernet ports and 2 Gigabit SFP slots
- 1000Mbps-Full-duplex, 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- 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
- IEEE 802.3x Flow Control protects against lost packets for reliable data transmission
- Minimize carbon footprint with advanced energy efficient technology (IEEE 802.3az)
- 19-inch rackmount kit included
- Total PoE power budget: 150W, up to 30W per port



## Highlight

### Cost Effectiveness and Enhanced Flexibility

Featuring Power over Ethernet Plus (PoE+) technology (IEEE 802.3at), which nearly doubles the power delivery comparing to the IEEE 802.3af PoE technology. Furthermore, it ensures that the power is used more efficiently due to the maximum power will only be requested when it is needed. Thus providing great cost savings by reducing power bills and eliminating the need for additional power cables and outlets.

### 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.

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## Works Well With



### **FCS-5061**

5-Megapixel Day/Night PoE-Plus Outdoor Network Camera



### **WAP-6013**

300Mbps Wireless Access Point

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## Specifications

### System Specifications

#### Buffer Memory (KB):

512KB

#### Connectors and Cabling:

- 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:

Power Consumption: < 150W

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

#### 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

### Physical Specifications

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

280 x 215 x 44 mm

Weight (g):  
2300g

## Performance

**Backplane (Gbps):**  
16Gbps

**MAC Address Table:**  
8K

**Data Transfer Rate:**  
10/100/1000Mbps

**Packet Forwarding Rate:**  
1000Mbps port - 1,488,000pps  
100Mbps port - 148,000pps  
10Mbps port - 14,880pps

**Jumbo Frame (K):**  
9KB

## Features

### General:

Flow Control: Half Duplex - Backpressure; Full Duplex - Pause frame

### PoE:

Power Budget: Max. 140W

Power Output: Up to 30W per port

Protection: Circuit protection to prevent power interference between ports

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

## 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

### Temperature (°C):

Operating: 0°C ~ 40°C

Storage: -40°C ~ 70°C

### Humidity (Non-condensing):

Storage: 5% ~ 90%

Operating: 5% ~ 90%

## Others

### Approval and Compliance:

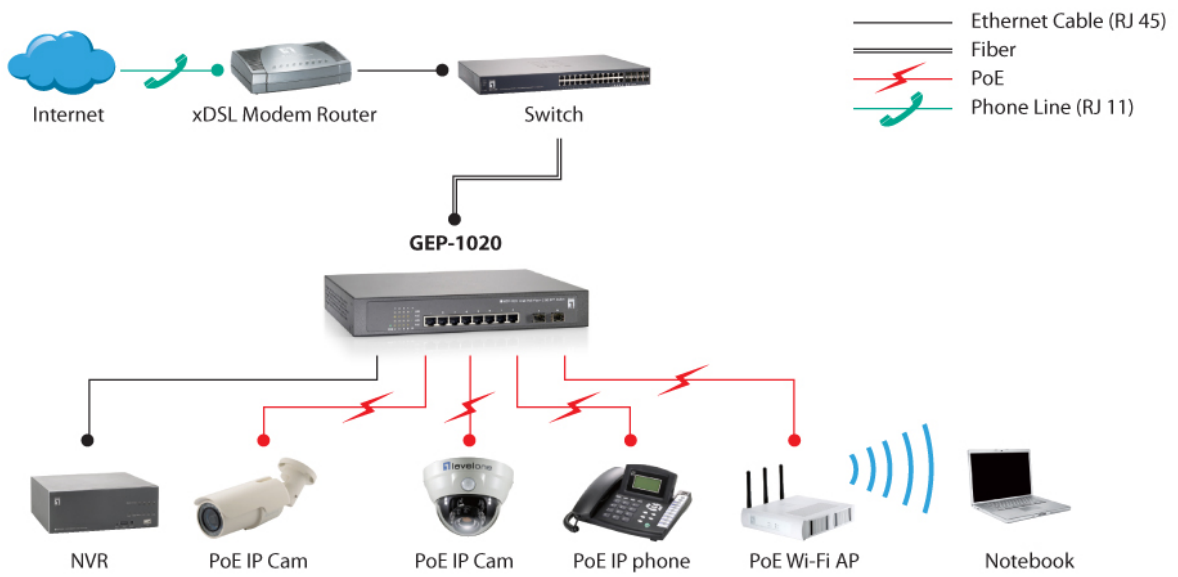
FCC Part 15 Class A, CE

### Deployment:

19-inch rack-mountable



## Diagram



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## Order Information

GEP-1020

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## Package Contents

Power Cord  
19" Rackmount Kit  
Quick Installation Guide