

# 8-Port Gigabit PoE Plus Switch



GEP-0820

H/W Version: 2

## Product Overview

The LevelOne GEP-0820 provides 8 x 10/100/1000Mbps ports with IEEE 802.3at PoE plus supported. This switch is IEEE 802.3af/at compliant, and provides power and data over a single Ethernet cable to any PoE device, with total power budget of 61.6W, 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 prefer an inexpensive solution for PoE deploying infrastructure.

## 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.



1. LED Indicators
2. 10/100/1000Mbps RJ-45 PoE Ports
3. Power Port
4. Wall-Mountable

## Key Features

- IEEE 802.3at PoE Plus compliant to simplify deployment and installation
- Minimize carbon footprint with advanced energy efficient technology (IEEE 802.3az)
- 9K jumbo frames to increase data transfer rates
- Auto-detection and protection of non-standard PoE devices
- IEEE 802.3x flow control protects against lost packets for reliable data transmission
- Total PoE power budget: 61.6W, up to 30W per port

## Works Well With



**FCS-5061**  
Day/Night 5-Megapixel PoE Plus  
Outdoor Network Camera



**WAP-6012**  
300Mbps Wireless Gigabit PoE  
Access Point



## Technical Specifications

### Standards

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  
 IEEE 802.3at Power over Ethernet Plus  
 IEEE 802.3az: Energy Efficient Ethernet

### Features

MAC Address: 8K  
 Buffer Memory: 128KB  
 Transmission Method: Store-and-Forward  
 Backplane: 16Gbps  
 Jumbo Frame: 9K

### Filtering/Forwarding Rates

1000Mbps port-1488,000pps  
 100Mbps port-148,000pps  
 10Mbps port-14,880pps

### Transmission Media

10Base T Cat. 3, 4, 5 UTP/STP  
 100Base TX Cat. 5 UTP/STP  
 1000Base TX Cat. 5e/6/7 UTP/STP

### Network Interface

8 x 10/100/1000Mbps RJ-45 PoE Ports

### PoE Spec

PoE Standard: IEEE 802.3af/at Power over Ethernet / PSE  
 PD classification identity  
 PoE over current protection  
 PoE circuit sorting protection  
 PoE Power Output: Per Port 56V DC, Max. 15.4 watts (IEEE 802.3af) or 30 watts (IEEE 802.3at)  
 Power Budget: Max. 61.6W  
 Power Pin Assignment: 1/2(+), 3/6(-)

### LED Indicators

Power, Active, 10/100M, 1000M, PoE

### Power Input

100-240V DC / 50-60Hz 1.35A External Power Adapter

### Power Consumption

65W

### Dimensions (L x W x H)

280 x 185 x 44 mm

### Weight

1.2kg

### Temperature

Operating: 0~45 Degree °C  
 Storage: -40~70 Degree °C

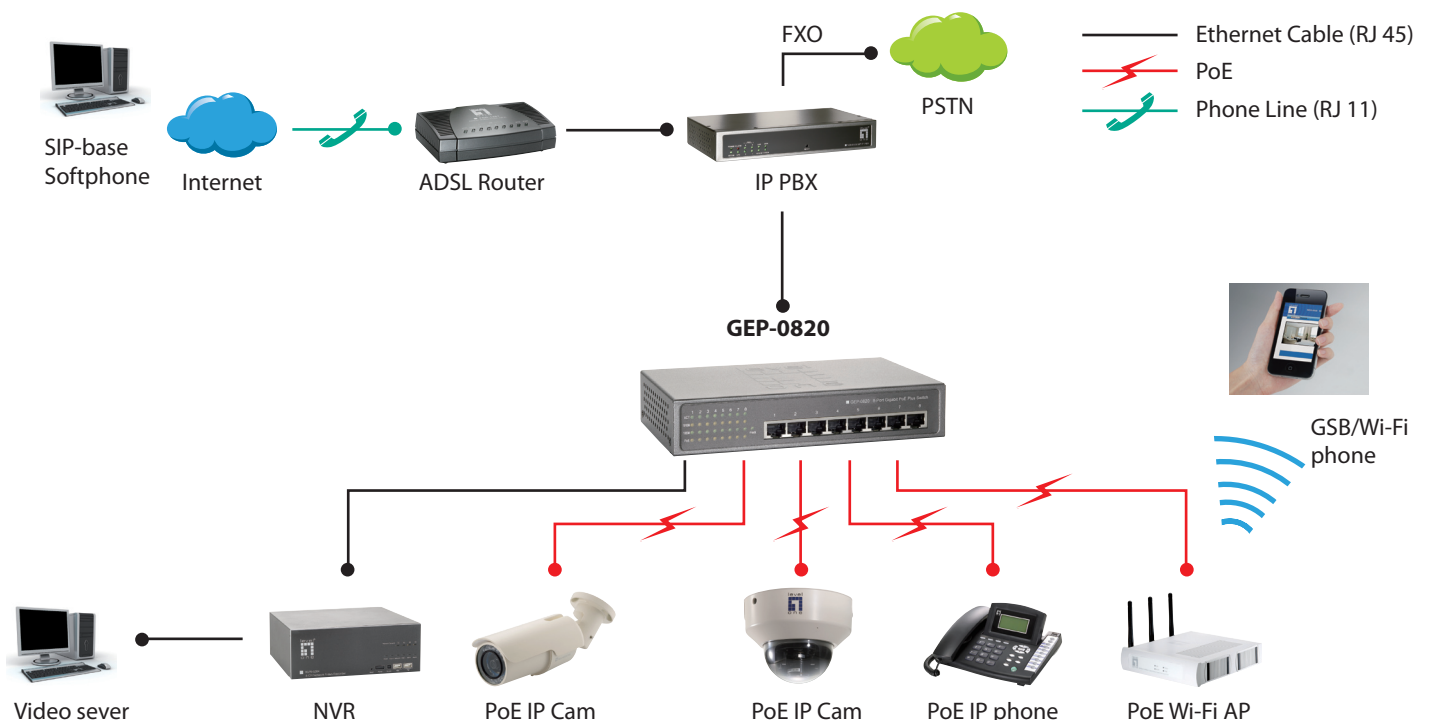
### Humidity

Operating: 10~90% (Non-condensing)  
 Storage: 10~90% (Non-condensing)

### Certifications

FCC, CE

## Product Diagram



**Order Information**

**GEP-0820:** 8-Port Gigabit PoE Plus Switch

**Package Contents**

GEP-0820

Power Adapter with Power Cord

Quick Installation Guide