

GEP-1621 Version: 1



## 16-Port Gigabit PoE Switch, 802.3at PoE+

The LevelOne GEP-1621 is a Gigabit PoE-Plus Switch with 16 x 10/100/1000Base-T PoE-Plus ports. 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 240W, up to 30W per port. Ideal for desktops, it is also 19-inch rack-mountable, which provides convenient and flexible installation. The GEP-1621 is designed for small-to-median businesses that prefers an affordable solution for PoE deploying infrastructure.



1. LED Indicators
2. 10/100/1000Mbps RJ-45 PoE Ports
3. Power Socket
4. Power Switch

### Key Features

- 16 PoE-Plus Gigabit Ethernet ports
- 10/100/1000Mbps wire speed transmission and reception
- IEEE 802.3af/at PoE compliant to simplify deployment and installation
- Auto-detection and protection of non-standard PoE devices
- 9K jumbo frames to increase data transfer rates
- Supports 8K MAC address auto-learning and auto-aging
- 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 metal housing
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## Related Product



### **POR-1220**

Gigabit Outdoor PoE Repeater, Cascadable, 802.3at PoE+

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## 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:

256KB

#### Connectors and Cabling:

16 x RJ-45 10/100/1000Base-T PoE-Plus ports

#### Indicator:

Power; Link/Active; PoE

#### Transmission Method:

Store-and-Forward

#### Power Input:

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

#### Power Consumption:

< 120W (GEP-1621W120)  
< 150W (GEP-1621W150)  
< 250W (GEP-1621)  
< 380W (GEP-1621W380)

### Features

#### General:

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

#### PoE:

Power Budget: Max. 110W (GEP-1621W120)

Max. 140W (GEP-1621W150)

Max. 240W (GEP-1621)

Max. 370W (GEP-1621W380)

Power Output: Up to 30W per port

Protection: Circuit protection to prevent power interference between ports

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

### Performance

#### Backplane (Gbps):

32Gbps

#### 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

## 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 ~ 50°C

Storage: -40°C ~ 70°C

**Humidity (Non-condensing):**

Storage: 5% ~ 90%

Operating: 5% ~ 90%

**Deployment:**

19-inch rack-mountable

## Physical Specifications

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

480 x 200 x 44 mm

**Weight (g):**

2900g

## Reliability

**MTBF:**

48300 hours

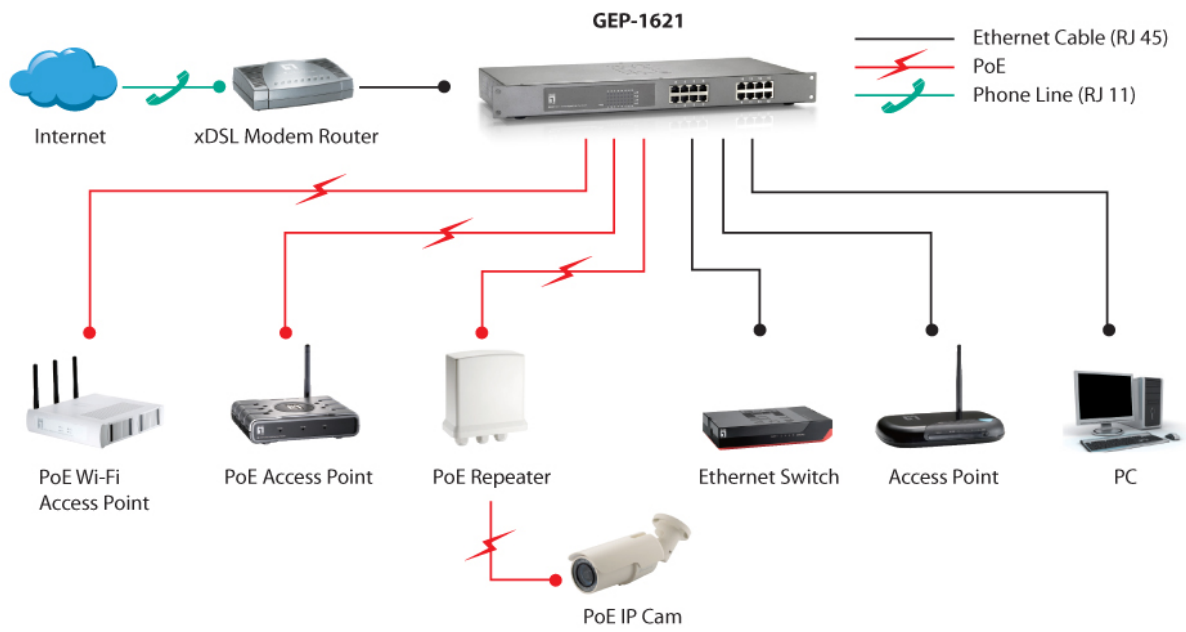
## Approval and Compliance

**EMI/EMS:**

FCC Part 15 Class A, CE, RoHS



## Diagram



## Order Information

- GEP-1621: 250W
- GEP-1621W380: 380W
- GEP-1621W150: 150W
- GEP-1621W120: 120W

## Package Contents

- GEP-1621
- Power Cord
- Quick Installation Guide

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