



## 24-Port Gigabit PoE Switch, 802.3af/at PoE

The LevelOne GEP-2421 series are unmanaged Gigabit PoE switches with 24 RJ45 PoE ports. The switches are IEEE 802.3af/at compliant, providing power and data over a single Ethernet cable to any PoE device, with a total power budget of 150/250/380/500/630W, or up to 30W per port. Ideal for desktops, they are also 19-inch rack-mountable, which provides convenient and flexible installation. The GEP-2421 switches are designed for small-to-medium businesses that require an affordable solution for deploying PoE infrastructure.

### Key Features

- IEEE 802.3af/at PoE compliant to simplify deployment and installation
- IEEE 802.3x Flow Control protects against lost packets for reliable data transmission
- 10K jumbo frames to increase data transfer rates
- Supports 8K MAC address auto-learning and auto-aging
- 1000Mbps full-duplex, 10/100Mbps full/half-duplex, auto-negotiation, auto-MDI/MDIX

### 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 802.3az (Energy Efficient Ethernet)  
IEEE 802.3af Power over Ethernet  
IEEE 802.3at Power over Ethernet Plus

##### Memory:

MX25L4005AMC-12G

##### Buffer Memory:

4.1Mbit

##### Port:

24 x 10/100/1000Mbps RJ45

##### Button/Knob:

POWER Button

##### Indicator:

Power, LAN 1~24 port, PoE 1~24 port

**Transmission Method:**

Store-and-Forward

**Power Input:**

AC Power input(100V~240V), 50-60 Hz

**Power Output:**

Per Port 56VDC, Max. 30 watts (802.3at)

**Power Consumption:**

150W/250W/380W/500W/630W

**Backplane (Gbps):**

48Gbps

**MAC Address Table:**

8K

**Data Rate:**

10/100/1000Mbps

## Features

**PoE:**

IEEE 802.3at/af Power over Ethernet/PSE Mode A

## Performance

**Packet Forwarding Rate:**

10Mbps 14880pps,  
100Mbps 148800pps,  
1000Mbps 1488000pps

**Jumbo Frame (K):**

10K

**Switching Capacity:**

48Gbps

## Environment

**Power Saving:**

IEEE 802.3az (Energy Efficient Ethernet)

**Operating Temperature (°C):**

Operating: 0° ~ 50°C

**Operating Humidity (Non-condensing):**

Operating: 10 ~ 90%

**Installation:**

Rackmount

## Physical Specifications

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

440x220x44

**Weight (g):**

3.8kg

## Reliability

MTBF:  
55.5khours (6 years)

## Approval and Compliance

### EMI/EMS:

EMI:

EN55032:2012+AC:2013

EN55022:2010+AC:2011

AS/NZS CISPR 22 Amdt. (2010)

EN61000-3-2:2014

FCC Class A

CE

EN61000-3-3:2013

EMS:

EN55024:2010

IEC61000-4-2:2008

IEC61000-4-3:2006+A1:2007+A2:2010

IEC61000-4-4:2012

IEC61000-4-5:2005

IEC61000-4-6:2013

IEC61000-4-8:2009

IEC61000-4-11:2004

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## Order Information

GEP-2421W150: 150W

GEP-2421W250: 250W

GEP-2421W380: 380W

GEP-2421W500: 500W

GEP-2421W630: 630W

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## Package Contents

GEP-2421W150

User Manual

Rubber Feet

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