

GEP-0823 Version: 1



8-Port Gigabit PoE Switch, 802.3at/af PoE, 120W

The LevelOne GEP-0823 is an 8-port Gigabit Ethernet PoE switch that provides Power over Ethernet on all eight of its ports. Per PoE port a power supply of up to 30W is possible. The total PoE power budget is 120W. It is the ideal solution when office and home users are using a combination of PoE and non-PoE devices.

The GEP-0823's eight PoE-enabled ports make it an ideal solution for office users who use PoE-enabled devices and already want to power a larger number of PoE devices. These products can be a mix of PoE IP phones, PoE Wifi APs and PoE IP cams. It is the perfect solution for offices that want to upgrade their office equipment and LAN infrastructure to PoE capability or upgrade their existing PoE infrastructure to Gigabit speed. The switch automatically detects the connected IEEE 802.3at/af standard device and provides these devices with power and data over a single cable.

The GEP-0823 also enables users to provide a stable and reliable high-speed LAN environment with store-and-forward switching architecture, packet error filtering and blockade-free packet forwarding. The 802.3x flow control mechanisms operate in both full and half duplex modes. This switch also supports the N-Way auto negotiation protocol, which automatically detects network speed and duplex mode.

For instant fault detection, the GEP-0823 is equipped with a complete set of LEDs to help monitor and troubleshoot the network.

Key Features

- IEEE 802.3af/at PoE compliant to simplify deployment and installation
- 10/100/1000Mbps wire speed transmission and reception
- 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: 120W, up to 30W per port

Specifications

System 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 Full-duplex Flow Control
 IEEE 802.3af Power over Ethernet (PoE)
 IEEE 802.3at Power over Ethernet Plus (PoE+)

**Memory:**

1Mb

Buffer Memory:

8K

Port:

8 x 10/100/1000Base-TX RJ45 PoE port

Indicator:

Power, Active, 10/100/1000M

Pin Assignment and Polarity:

1/2(+), 3/6(-) Mode A

4/5(+), 7/8(-) Mode B (Optional)

Transmission Method:

Store-and-Forward

Power Input:

52VDC @ 2.5A 130W

Power Output:

<120W

Power Consumption:

<10W

Backplane (Gbps):

16G

MAC Address Table:

8K

Data Rate:

10/100/1000Mbps

Features

PoE:

Power Budget: Max. 120W

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)

Performance

Jumbo Frame (K):

9126 bytes

Environment

Operating Temperature (°C):

-20~70°C

Operating Humidity (Non-condensing):

5%~90%

Storage Temperature (°C):

-20~70°C

Storage Humidity (Non-condensing):
5%~90%

Physical Specifications

Dimensions (W x D x H mm):
170.50mm × 80.50mm × 30.00mm

Weight (g):
900

Reliability

MTBF:
30,000 hours

Approval and Compliance

EMI/EMS:
CE,FCC

Order Information

GEP-0823

Package Contents

GEP-0823
Quick Installation Guide
Power adapter with power cord