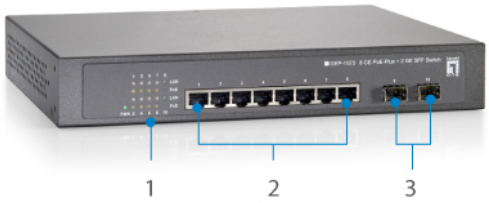
GEP-1020 Version: 1



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.



1. LED Indicators
2. 10/100/1000Mbps RJ-45 PoE Ports
3. 100/1000Base SFP Slot



4. Power Switch On/Off
5. Power Socket

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

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.

Works Well With



FCS-5061

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



WAP-6013

300Mbps Wireless Access Point

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

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(-)

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

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%

Physical Specifications

Dimensions (W x D x H mm):
280 x 215 x 44 mm

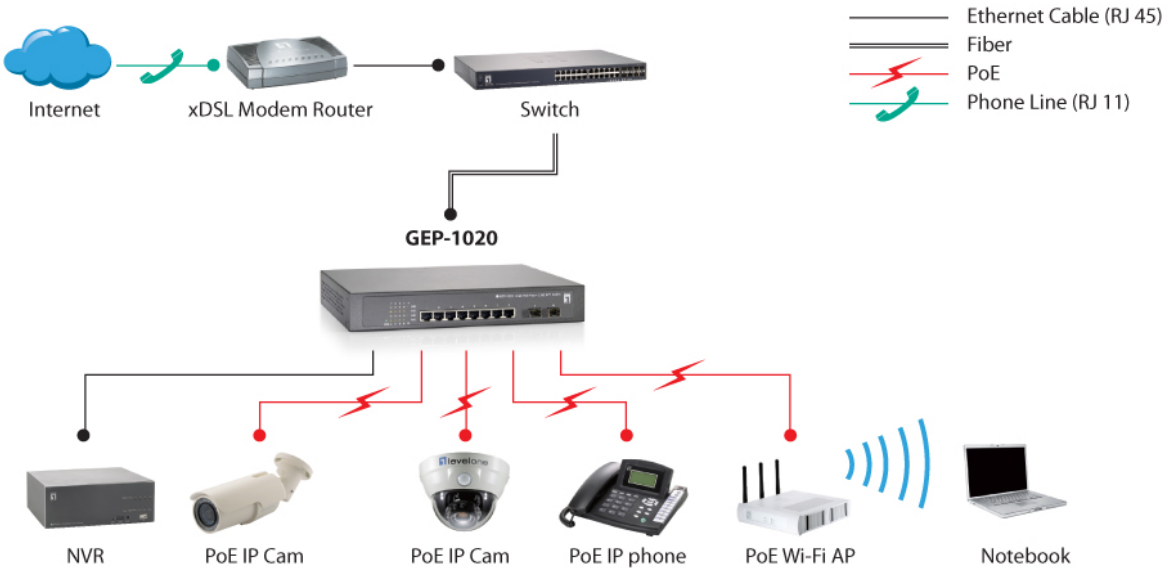
Weight (g):
2300g

Others

Approval and Compliance:
FCC Part 15 Class A, CE

Deployment:
19-inch rack-mountable

Diagram



Order Information

GEP-1020

Package Contents

Power Cord
19" Rackmount Kit
Quick Installation Guide

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