



24 GE PoE-Plus with 4 GE Combo SFP Web Smart Switch



GEP-2450

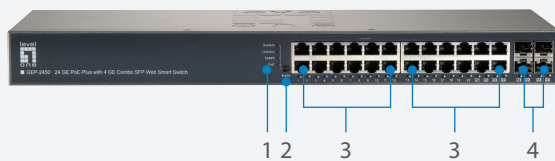
H/W Version: 2

The LevelOne GEP-2450 is a cost-effective Web Smart PoE Switch, equipped with 24 x 10/100/1000Base-T PoE ports and 4 dual speed combo SFP ports. It is IEEE802.3af compliant and offers advanced PoE Manageability features which includes PoE Status, PoE Scheduling, PoE Power Delay and PoE Live Checking.

The switch can be managed through Web browser, and allows the network administrator to monitor, to configure and to control each port's activity.

In addition, the switch implements QoS (Quality of Service), Port Mirroring, VLAN, LACP, LAN security, Multicasting video stream protocol, and SNMP v2c. It is suitable for SMB application.

The switch supports power saving features to reduce the power consumption with auto detect of client idle and cable length to provide different power.



- 1. LED Indicators
- 2. Mode Button
- 3. 10/100/1000Mbps RJ-45 PoE Ports



- 4. 100/1000Base Combo SFP Slots
- 5. Power Socket

Key Features

- 24 PoE-Plus Gigabit Ethernet ports with 4 shared SFP slots
- IEEE 802.3af / at PoE compliant to simplify deployment and installation
- PoE control and scheduling
- IEEE 802.1x Access Control to improve network security
- IEEE 802.1Q VLAN allows network segmentation to enhance performance and security
- Supports port aggregation of up to 8 groups, 12 ports per group
- Supports unknown unicast / broadcast / multicast storm control
- IP Multicast Filtering through IGMP Snooping V1/ V2
- IEEE 802.1p QoS with 4 priority queues
- Total PoE power budget: 185W, up to 30W per port
- Minimize carbon footprint with advanced energy efficient technology (IEEE 802.3az)

Works Well With



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



WAP-6012
300Mbps Wireless Gigabit PoE Access Point

Technical Specifications

Hardware

Interface

- 24 x RJ-45 10/100/1000BASE-T Poe Plus ports
- 4 x Gigabit RJ-45/SFP (Mini-GBIC) shared slots
- Port 21,22,23,24 are TP/ (100/1000M) SFP Fiber auto sense

Standard

- IEEE 802.3 10Base-T (Ethernet)
- IEEE 802.3u 100Base-TX (Fast Ethernet)
- IEEE 802.3ab 1000Base-T (Gigabit Ethernet)
- IEEE 802.3z 1000Base-X Ethernet
- IEEE 802.3x flow control capability
- IEEE 802.1Q VLAN
- IEEE 802.1D MAC Bridges
- IEEE 802.1p Quality of Service
- IEEE 802.1x Access
- IEEE 802.3af Power over Ethernet
- IEEE 802.3at Power over Ethernet
- IEEE 802.3az Energy Efficient Ethernet

Power Supply

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

Power Consumption

250 Watts (max)

Power over Ethernet (PoE)

- Supports IEEE 802.3af / at compliant
- Supports Power over Ethernet (PSE) on each Gigabit UTP port
- Power Budget: Max. 185W
- Auto detect powered device and consumption levels
- Smart feature as PoE Status, PoE Scheduling, PoE Power Delay and PoE Live Checking
- Circuit protection to prevent power interference between ports
- Supports per port power priority setting

LED Indicators

System, Link/Act, Speed, Poe

Dimension (W x D x H mm)

442 x 170 x 44 mm

Weight (g)

2400g

Temperature (°C)

Operating: 0 ~ 40°C
Storage: -20 ~ 70°C

Humidity (Non-condensing)

Operating: 10 ~ 90%

Approval

FCC Part 15 Class A, CE Mark

Software

Performance

- 48Gbps forwarding bandwidth for switch, non-blocking switch fabric
- Wire speed performance
- MAC addresses: 8K
- Buffer Memory: 500 KB
- Backplane: 48Gbps
- Jumbo frame: 9KB
- Backpressure flow control for half duplex.
- 802.3x flow control for full duplex.

VLAN

- Support up to 16 VLANs simultaneously (out of 4096 Vlan IDs)
- Port-base VLAN
- IEEE802.1Q tag-base VLAN, up to 24 active VLANs
- In tag-base VLAN, supports egress/ingress packet filter
- Provides Multicast VLAN for DVB application

QoS

- Supports port based, Tag based, IPv4 ToS and DSCP
- Supports 802.1p QoS with 4 level priority queue
- Supports two scheduling, WRR and Strict

Bandwidth Control

- Supports bandwidth rating per port ingress and egress rate limit 1000Mbps with 1Mbps increment

Port Trunk

- Port trunking with 8 trunking groups
- Up to 12 ports for each group
- Broadcast Storm
- Multicast/Broadcast/Unknown-Unicast Storm suppression

Port Mirroring

- Support 1: N RX port mirroring
- Supports port sniffer function with RX Monitor Mode

Software Upgrade

- Supports firmware upgrade via web GUI

802.1x network access security

- Provides multi-host authentication based on port-based

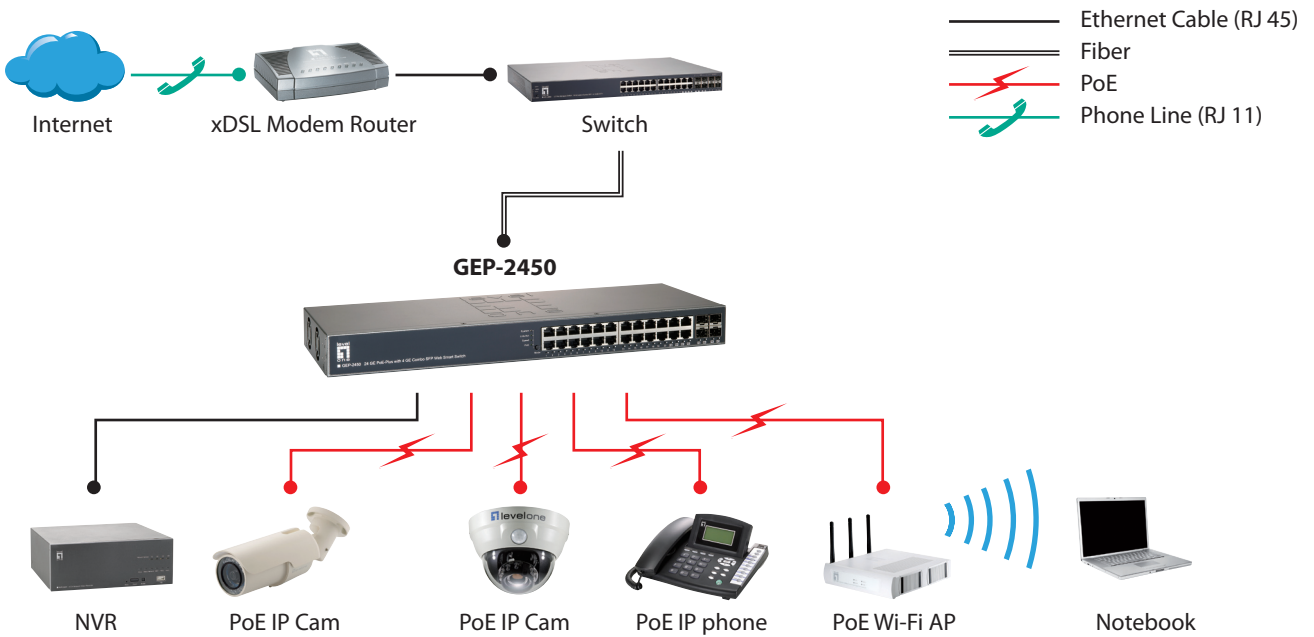
IGMP Snooping

- IGMP v1/v2 snooping
- IGMP Queried
- IGMP Proxy

SNMP v1, v2c Network Management

- MIB II (RFC1213)
- Interface Group MIB (RFC 2863)

Product Diagram



Order Information

GEP-2450: 24 GE PoE-Plus with 4 GE Combo SFP Web Smart Switch

Package Contents

GEP-2450
 Power Cord
 Rack-Mount Kit
 CD Manual

Optional Accessories



GVT-0300
 1.25Gbps SFP Transceiver,
 Duplex LC connector (550m)



GVT-0301
 1.25Gbps SFP Transceiver,
 Duplex LC connector (10km)



GVT-0302
 1.25Gbps SFP Transceiver,
 Duplex LC connector (80km)



SFP-3001
 1.25Gbps SFP Transceiver,
 Duplex LC connector (550m)



SFP-3211
 1.25Gbps SFP Transceiver,
 Duplex LC connector (10km)



SFP-3611
 1.25Gbps SFP Transceiver,
 Duplex LC connector (80km)



SFP-3111
 1.25Gbps SFP Transceiver,
 Duplex LC connector, MLX
 (2km)



SFP-3411
 1.25Gbps SFP Transceiver, SM,
 EZX, Duplex LC connector
 (120km)



SFP-3711
 1.25Gbps SFP Transceiver,
 SM, EZX, Duplex LC
 connector (120km)



SFP-9221
 1.25G BIDI, (SM 10km
 1310/1550), Simplex LC



SFP-9231
 1.25G BIDI, (SM 10km
 1550/1310), Simplex LC



SFP-9321
 1.25G BIDI, (SM 20km
 1310/1550), Simplex LC



SFP-9331
 1.25G BIDI, (SM 20km
 1550/1310), Simplex LC



SFP-9421
 1.25G BIDI, (SM 40km
 1310/1550), Simplex LC



SFP-9431
 1.25G BIDI, (SM 40km
 1550/1310), Simplex LC

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