

GEP-2682 Version: 1



26-Port L3 Lite Managed Gigabit PoE Switch, 24 PoE Outputs, 370W, 2 x SFP/RJ45 Combo

LevelOne GEP-2682 L3 Lite Managed PoE+ Switch is a next-generation Ethernet Switch offering full suite of L2 features, better PoE functionality and usability, including advanced L3 features such as Static Route that delivers better cost performance and lower total cost of ownership in Enterprise networks via fiber or copper connections.

LevelOne GEP-2682 delivers 24 (10M/100M/1000Mbps.) RJ45/PoE+ (Support 802.3at/af, and total up to 370W) ports, 2 Combo GbE RJ45/SFP ports and RJ45 Console port. LevelOne GEP- 2682 provides high HW performance and environment flexibility for SMBs and Enterprises. LevelOne GEP-2682 is ideal to deliver management simplicity, intuitive user experience, and lower total cost of ownership. The embedded Device Managed System is designed to be extremely easy-to-use/manage/install IP Phone, IP Cam, or WifiAP for Enterprise Applications.

Key Features

- QoS control for traffic prioritization and bandwidth management
- 24 PoE-Plus Gigabit Ethernet ports and 2 Gigabit SFP slots
- DHCP Client/Server
- Supports IPv4/IPv6 network operation
- Minimize carbon footprint with advanced energy efficient technology (IEEE 802.3az)
- IEEE 802.1d/w/s Spanning Tree Protocol (STP) and port mirroring
- IP Multicast Filtering through IGMP Snooping V1 / V2 / V3
- IEEE 802.3ad LACP for auto port aggregation
- Supports Universal Plug and Play (UPnP) for auto-configure network devices

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 802.3z 1000BASE-X, Gigabit Ethernet
- IEEE 802.1p Quality of Service (QoS)
- IEEE 802.1X Port-based Network Access Control (PNAC)
- IEEE 802.1Q Virtual LANs (VLANs)
- IEEE 802.1D MAC Bridges
- IEEE 802.1d Standard Spanning Tree Protocol
- IEEE 802.1s Multiple Spanning Tree (MSTP)
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
- IEEE 802.3x Flow Control
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)



IEEE 802.3af Power over Ethernet (PoE)
IEEE 802.3at Power over Ethernet Plus (PoE+)
IEEE 802.3az Energy-Efficient Ethernet
Link Layer Discovery Protocol (LLDP)

Memory:

RAM : 128 MB
Flash : 32 MB

Buffer Memory:

512 KB

Connectors and Cabling:

24 x 10/100/1000Mbps RJ45 PoE port
2 x Gigabit RJ45/SFP combe port
1 x RJ45 Console port

Button/Knob:

Mode / Reset Button

Indicator:

System, Link/Act/Speed, PoE

Transmission Method:

Store-and-Forward

Power Input:

100-240 VAC 50~60 Hz

Power Consumption:

20.71W (without PoE)

Features

General:

Device Management System (DMS)
IGMP:
IGMP v1/v2/v3 snooping; IGMP Queried; IGMP Proxy
Virtual Local Area Network (VLAN):
Port-based VLAN
802.1Q tag-based VLAN
MAC-based VLAN
Management VLAN
Private VLAN Edge (PVE)
Q-in-Q (double tag) VLAN
Voice VLAN
GARP VLAN Registration Protocol (GVRP)
DHCP: DHCP Client

PoE:

Power Budget: Max. 370W
Power Output: Up to 30W per port
Protection: Circuit protection to prevent power interference between ports
Management: PoE status, PoE on/off scheduling, PoE power delay, PoE live checking, Per port power priority setting, PD classification identity
Pin Assignment: 1/2(+), 3/6(-)

Security:

ACLs?L2/L3/L4
ACLs?IPv6 Support
Port Security (MAC-based)
IP Source Guard
Storm Control
RADIUS Authentication 802.1x
TACACS+ Authentication
HTTPs and SSL (Secured Web)
BPDU Guard
STP Root Guard

DHCP Snooping
Loop Protection

Management:

Switch Management:
DHCP?Client?Relay?Option 66?Option 67?Option 82
Event/Error Log?Syslog?SMTP (RFC821)
Management Access Filtering?SNMP?Web?Telnet?SSH
PoE Management?Scheduling?Auto-Checking?Power DelaySNMP (v1, v2c, v3)
RMON (1,2,3 & 9 Groups)
Software Upgrade
Configuration Export/Import
Port Mirroring
LLDP (IEEE802.1AB)
LLDP-MED (IEEE802.1AB)
CDP Aware
sFlow
IPv6 Management
NTP

L3:

Static Route
DHCP Server

Ease of Use:

Firmware and Configuration: Upgrade via HTTP

Performance

Backplane (Gbps):

Switching Bandwidth: 52Gbps
Forwarding Performance : 38.7Mpps

MAC Address Table:

8K

Data Transfer Rate:

10/100/1000Mbps

Packet Forwarding Rate:

38.68 Mpps

Jumbo Frame (K):

9600

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 ~ 45°C
Storage: -20°C ~ 70°C

Humidity (Non-condensing):

Storage: 10% ~ 90%
Operating: 10 ~ 90%

Deployment:

19-inch rack-mountable



Physical Specifications

Dimensions (W x D x H mm):

442 x 211x 44 mm

Weight (g):

3500g

Reliability

MTBF:

25°C?211,272(hr)

40°C?103,032(hr)

Approval and Compliance

EMI/EMS:

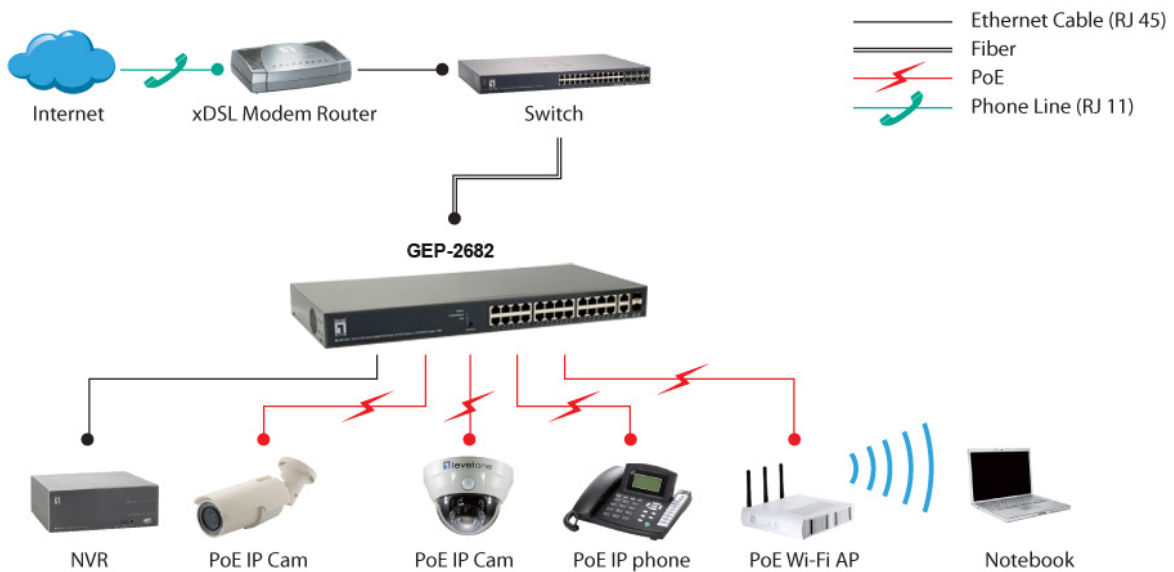
CE, FCC Part 15 Class A

Safety:

UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements)

CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements)

Diagram



Order Information

GEP-2682

Package Contents

GEP-2682

Power Cord

Console Cable

Quick Installation Guide

Resource CD (User Manual, QIG)

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