

GEP-2681 Version: 1



## TURING 26-Port L3 Lite Managed Gigabit PoE Switch, 24 PoE Outputs, 185W, 2 x SFP/RJ45 Combo

LevelOne GEP-2681 L3 Lite Managed PoE+ Switch is a next-generation Ethernet Switch offering a full suite of L2 features, better PoE functionality and increased usability. The switch includes advanced L3 features such as Static Route, which delivers better cost performance and lower total cost of ownership in Enterprise networks via fiber or copper connections.

LevelOne GEP-2681 delivers 24 (10M/100M/1000Mbps) RJ45/PoE+ (Supporting 802.3at/af, and a total of up to 185W) ports, 2 Combo GbE RJ45/SFP ports and an RJ45 Console port. LevelOne GEP- 2681 provides high HW performance and environment flexibility for SMBs and Enterprises. LevelOne GEP-2681 is ideal to deliver management simplicity, an intuitive user experience, and lower costs. The embedded Device Managed System is designed to be extremely easy-to-use/manage/install a network of IP Phones, IP Cameras, or Wifi AP for any scale of enterprise applications.

### Key Features

- 24 Gigabit PoE ports and 2 Gigabit RJ45/SFP combo ports
- QoS control for traffic prioritization and bandwidth management
- 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
- Total PoE power budget: 185W, up to 30W per port

### Specifications

#### System Specifications

##### Standards & Protocols:

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, Gigabit Ethernet over fiber optic  
 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

**Port:**

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 50~60Hz

**Power Consumption:**

16.79W (without PoE)

**Backplane (Gbps):**

52Gbps

**MAC Address Table:**

8K

**Data Rate:**

10/100/1000Mbps

## 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. 185W  
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 Delay SNMP (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  
MAC Flooding  
Native IPv6  
IPv6 Dual stack  
CLI

## L3:

Static Route  
DHCP Server

## Ease of Use:

Firmware and Configuration: Upgrade via HTTP

## Performance

### Packet Forwarding Rate:

38.68 Mpps

### Jumbo Frame (K):

9.6k

### Switching Capacity:

52Gbps

## 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

**Heat Dissipation:**

full loading(PoE on): 807.58 BTU/hr

**Operating Temperature (°C):**

Operating: 0°C ~ 45°C

Storage: -20°C ~ 70°C

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

Storage: 10% ~ 90%

Operating: 10 ~ 90%

**Installation:**

19-inch rack-mountable

## Physical Specifications

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

442 x 211x 44 mm

**Weight (g):**

3300g

## Reliability

**MTBF:**

25°C:463,931(hr)

40°C:305,837(hr)

## Approval and Compliance

**EMI/EMS:**

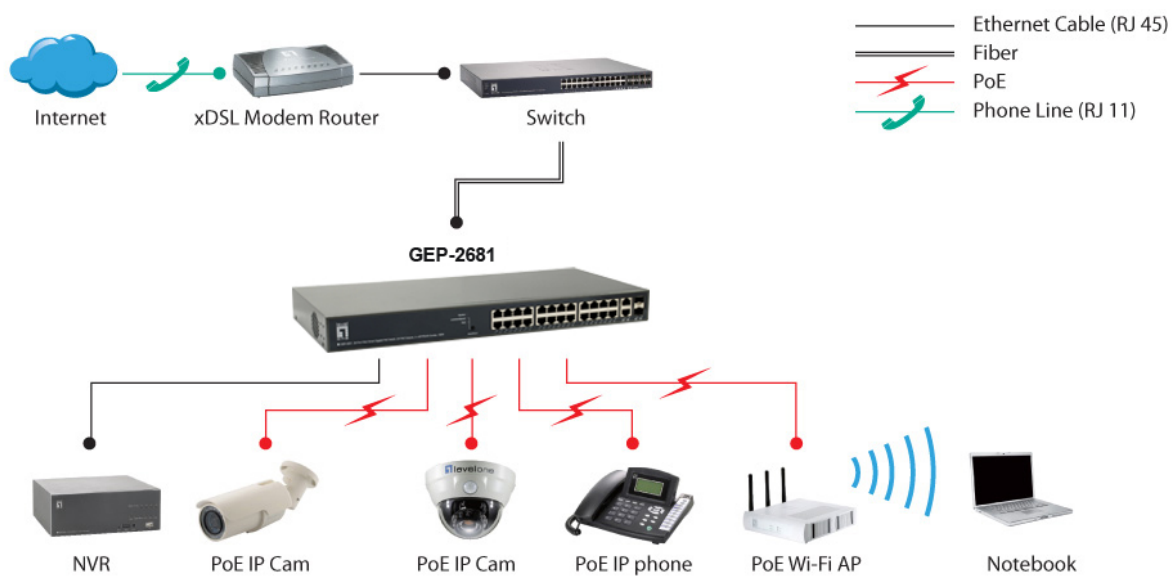
CE, FCC Part 15 Class A

**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



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## Order Information

GEP-2681

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## Package Contents

GEP-2681  
Power Cord  
Console Cable  
Quick Installation Guide  
Resource CD (User Manual, QIG)

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