



GEP-2651 Version: 1

## 26-Port Web Smart Gigabit PoE Switch, 24 PoE Outputs, 2 x SFP/RJ45 Combo, 185W

GEP-2651 Web Smart Gigabit PoE Switch is a next-generation Ethernet Switch offering powerful L2 features, Layer 3 Static Route, better PoE functionality and usability that delivers the cost-effectively business and transports Ethernet services via fiber or copper connections. GEP-2651 delivers 24 (10M/100M/1G) RJ45/PoE+ (Support 802.3at/af, and total up to 185W) ports and 2 Combo GbE RJ45/SFP ports. GEP-2651 provides high HW performance and environment flexibility for SMBs and Enterprises. GEP-2651 is ideal to deliver management simplicity, optimum 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 Wifi-AP for Enterprise Applications.

### Key Features

- 24 PoE-Plus Gigabit Ethernet ports and 2 Gigabit SFP slots
- 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
- Supports port-based VLAN, IEEE 802.1Q VLAN Tagging
- IEEE 802.3ad LACP for auto port aggregation

### Specifications

#### System Specifications

##### Standards & Protocols:

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 802.3ad 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

**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:**

18.29W (without PoE)

## Features

**General:**

Device Management System (DMS)

Virtual Local Area Network (VLAN):

802.1Q tag-based VLAN - up to 256 VLANs and 4096 VLAN IDs

Port-based VLAN

MAC-based VLAN

Q-iN-Q (double tag) VLAN

DHCP: DHCP Client

IPv6:

IPv6 host mode; IPv6 stateless address auto-configuration; Duplicate Address Detection (DAD)

ICMP v6;

IGMP:

IGMP v1/v2/v3 snooping; IGMP Queried; IGMP Proxy

IPv6 QoS Prioritize IPv6 packets in hardware

Port Mirroring:

Many-to-One TX/RX

**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 Auto checking, Per port power priority setting

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

HTTPs and SSL (Secured Web)

BPDU Guard

STP Root Guard

DHCP Snooping

Loop Protection

## Management:

### Switch Management:

DHCP?Client?Option 66?Option 67

Event/Error Log?Syslog?SMTP (RFC821)

Management Access Filtering?SNMP?Web

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

IPv6 Management

NTP

### L3:

DHCP Server

Static Route

### 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):

9.6K

## 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):**

3100g

**Reliability**

**MTBF:**

25°C?211,272(hr)

40°C?103,032(hr)

**Approval and Compliance**

**EMI/EMS:**

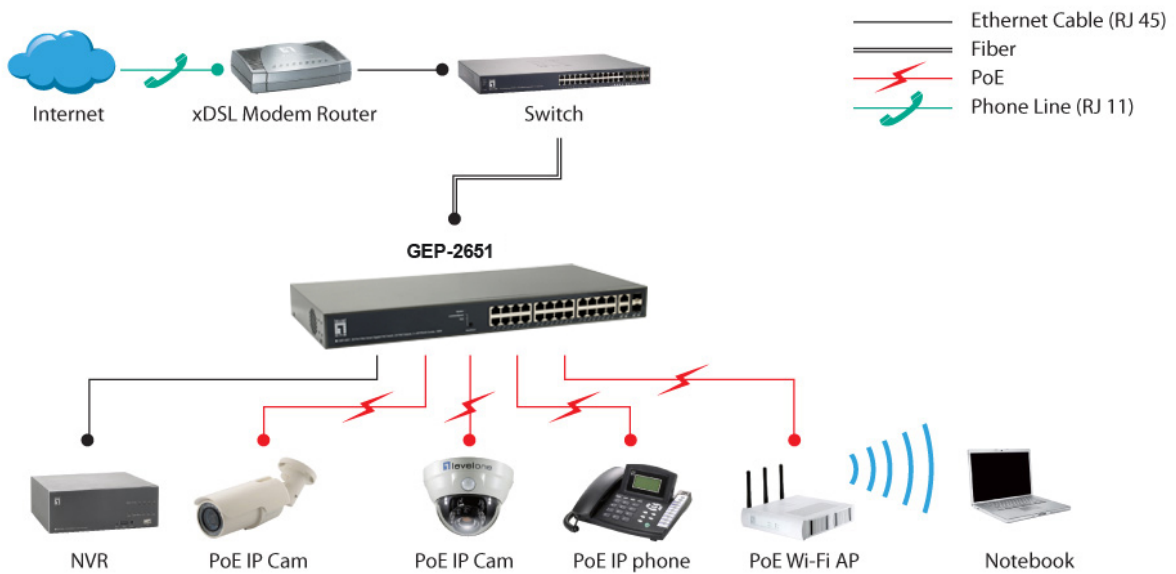
CE, FCC Part 15 Class A

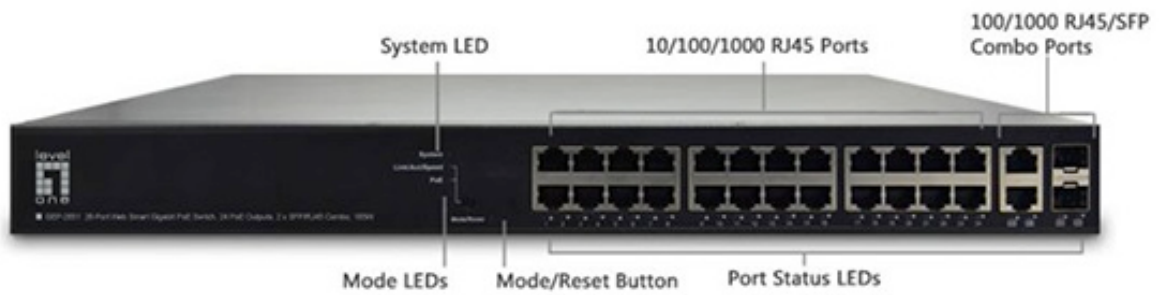
**Safety:**

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**





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## Order Information

GEP-2651

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## Package Contents

GEP-2651  
Resource CD (User Manual, QIG)  
Power Cord  
Quick Installation Guide

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