

GEP-2671 Version: 1

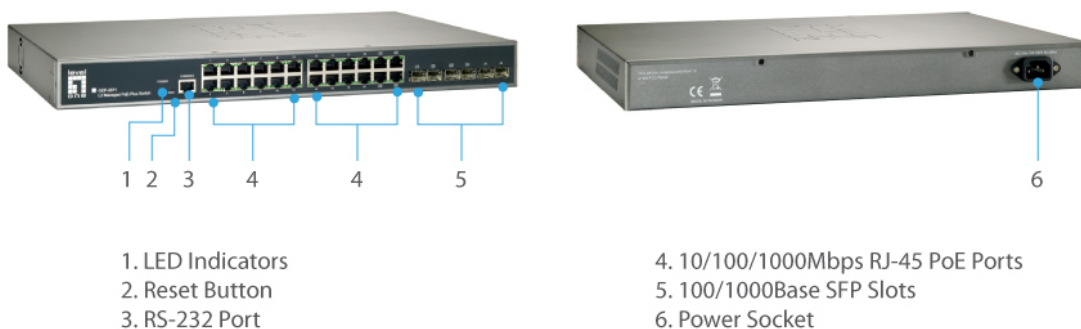


## 20 GE PoE-Plus + 4 GE PoE-Plus Combo SFP + 2 GE SFP L2 Managed Switch, 185W

The LevelOne GEP-2671 is a Layer 2 Managed switch with 24 x 1000Base-T PoE-Plus ports associated with 4 x Gigabit SFP (Small Form Factor Pluggable) slots + 2 individual Gigabit SFP Slots. This switch is IEEE 802.3af/at compliant to provide power and data over a single Ethernet cable to the PoE device, with total power budget of 185W, up to 30W per port.

Despite its affordable pricing, the GEP-2671 is equipped with advanced features such as Single IP Management which allows users to manage up to 32 switches under the same web interface, Easy Configuration Port (ECP), IGMP v1/v2/v3, IPv6, IEEE 802.1D/w/s Spanning Tree, IEEE 802.1X Access Control of up to 256 entries for easy network security, auto port aggregation, IEEE 802.1p QoS with 8 priority queues, IEEE 802.3az Green Ethernet and more.

An ideal network solution for workgroups and edge deployments, or anyone looking for an affordable and efficient way to expand their network.



### Key Features

- 24 PoE-Plus Gigabit Ethernet ports with 4 shared SFP slots + 2 Gigabit SFP slots
- 10/100/1000Mbps wire speed transmission and reception
- IEEE 802.3af/at PoE compliant to simplify deployment and installation
- Easy Configuration Port (ECP) for easy deployment of network devices such as IP phone or network camera



- Single IP management supports up to 32 switches (GEL-1072/GTL-2880/GTP-2880/GTL-5280/GEP-2671/GEP-2672)
- IEEE 802.1p QoS with 8 priority queues
- IEEE 802.1X port-based authentication with Access Control List (ACL) of up to 256 entries for easy network security
- Supports IPv4/IPv6 network operation
- IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) and port mirroring
- IEEE 802.1Q VLAN allows network segmentation to enhance performance and security
- Supports Dual Firmware Image which protects against failed firmware upgrade
- Total PoE power budget: 185W, up to 30W per port
- Minimize carbon footprint with advanced energy efficient technology (IEEE 802.3az)
- Dual power support: 24VAC/PoE (IEEE 802.3af/at)
- IEEE 802.3ad LACP for auto port aggregation

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## Highlight

### IP Clustered Stacking Solution

With the design and implementation of SIP (Single IP Management), network administrators are allowed to virtually stack up to 32 switches (GEL-1072/GTL-2880/GTP-2880/GTL-5280/GEP-2671/GEP-2672) together and manage them as one logical unit through a single IP address regardless of geographical locations of those switches. Comparing to traditional stacking, IP clustering eliminates the use of costly cables and connectors. Furthermore, it minimizes the impact of any single point of failure.

### LevelOne Easy Configuration Port (ECP) Technology

Each switch port can now be fully optimized through a predefined role and settings which are based on the type of a device such as an IP camera or a VoIP phone to be connected to. For instance, even if a surveillance system integrator who lacks of IT administration skills, can still easily enables the role and applies settings like VLAN, QoS, port security and spanning tree to all connected IP cameras on a single Web UI within a few minutes. Hence, simplifying network deployment and ensuring consistent configurations across the network.

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## Works Well With



### FCS-5061

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



### WAP-6012

300Mbps Wireless Gigabit PoE Access Point



### WAP-6013

300Mbps Wireless Access Point

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## Specifications

### System Specifications

Buffer Memory (KB):  
512KB

**Connectors and Cabling:**

- 24 x RJ-45 10/100/1000BASE-T PoE-Plus ports
- 6 x 100/1000Base-X SFP Slots (4 shared)

**Button:**

Reset Button

**Indicator:**

Power; Link/Active; PoE

**Transmission Method:**

Store-and-Forward

**Power:**

Power Consumption: < 250W

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 802.1p 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)
- Universal Plug and Play (UPnP)

## Physical Specifications

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

442 x 300 x 44 mm

**Weight (g):**

3028g with box, 2274g without box

## Performance

**Backplane (Gbps):**

52Gbps

**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

## Features



## General:

Quality of Service (QoS):

8 hardware Priority Queues per port

Traffic classification based on IEEE 802.1p CoS

IPv4/IPv6 precedence/ type of service (ToS) / DSCP based

Rate Limiting - Ingress policer egress shaping and rate control

Spanning Tree:

Bridge Protocol Data Units (BPDU)

IEEE 802.1D MAC Bridges

IEEE 802.1d Spanning Tree Protocol (STP)

IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)

Virtual Local Area Network (VLAN):

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

Port-based VLAN

MAC-based VLAN

DHCP: DHCP Client; DHCP Relay (Layer 2)

IPv6:

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

ICMP v6; IPv6 Neighbor Discovery (MLD)

IGMP:

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

IPv6 QoS Prioritize IPv6 packets in hardware

Port Mirroring:

Many-to-One TX/RX

Port Trunking:

IEEE 802.3ad LACP Trunk -Static Trunk up to 25 trunk groups

## 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:

Storm Control:

Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port

Authentication:

IEEE 802.1X Radius/Tacacs+ authentication

PVE:

L2 isolation between clients in the same VLAN

Access Control List (ACL):

Support for up to 256 entries

Dynamic VLAN assignment

Filtering:

Port-/MAC-/IP-based security

## Management:

Diagnosis:

Event / Error Log / Syslog

Port:

Easy Configuration Port (ECP) - configure client's QoS and security capabilities

Single IP Management (SIM): Single IP management for a virtual stack function to switches

(GTL-2880/GTL-5280/GTP-2880/GTL-1072/GEP-2672)

Network:

HTTPS/SSL; SSH v1/v2; sFlow; RMON (groups 1, 2, 3 and 9) Management ; SNMP v1, v2c, v3 User-based Security Model (USM); CLI via console port or Telnet; management VLAN; Private VLAN Edge (PVE)

## 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: -20°C ~ 70°C

### Humidity (Non-condensing):

Storage: 10% ~ 90%

Operating: 10 ~ 90%

## Others

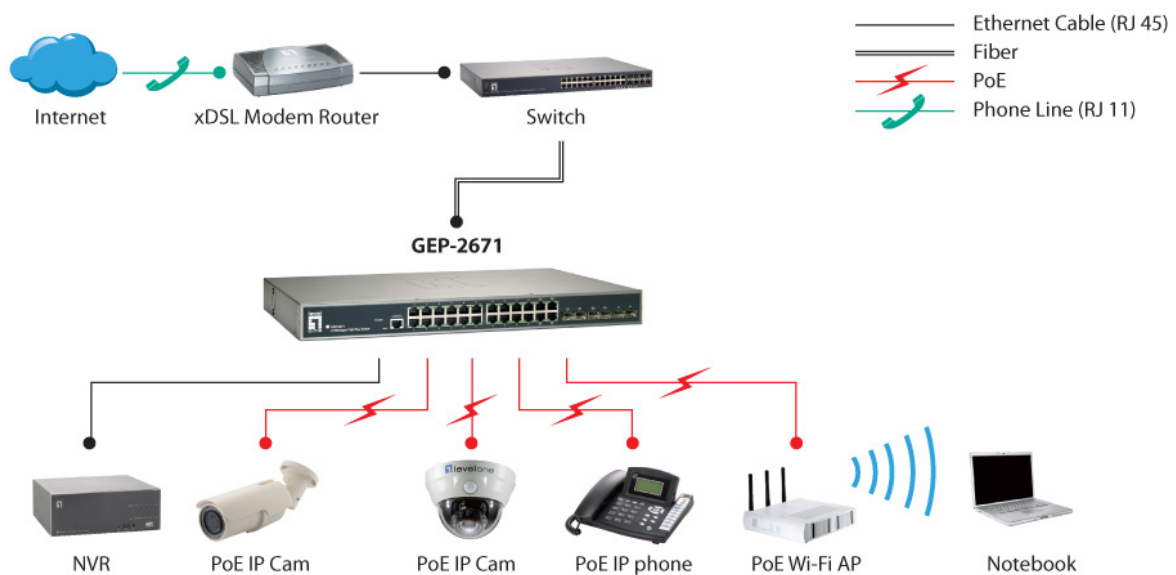
### Approval and Compliance:

FCC Part 15 Class A, CE

### Deployment:

19-inch rack-mountable

## Diagram



## Order Information

GEP-2671

## Package Contents

- Power Cord
- 19" Rackmount Kit
- Rubber Feet
- Quick Installation Guide
- Resource CD (User Manual)



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