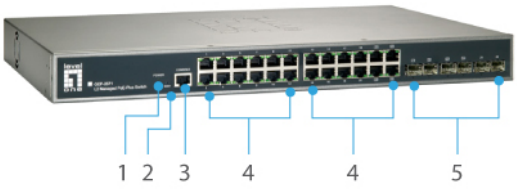
GEP-2671 Version: 1

26-Port L2 Managed Gigabit PoE Switch, 802.3at/af PoE, 24 PoE Outputs, 4 x SFP/RJ45 Combo, 2 x SFP, 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.



1. LED Indicators
2. Reset Button
3. RS-232 Port

4. 10/100/1000Mbps RJ-45 PoE Ports
5. 100/1000Base SFP Slots
6. Power Socket

Key Features

- 24 PoE-Plus Gigabit Ethernet ports with 4 shared SFP and 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
- Supports Access Control List (ACL) authentication of up to 256 entries and port-based security with IEEE802.1X
- Supports IPv4/IPv6 network operation
- IEEE 802.1d/w/s Spanning Tree Protocol (STP) and port mirroring
- 802.1Q tag-based 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)
- IEEE 802.3ad LACP for auto port aggregation

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.

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)
Universal Plug and Play (UPnP)

Buffer Memory:

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/Knob:
Reset Button

Indicator:
Power; Link/Active; PoE

Transmission Method:
Store-and-Forward

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

Power Consumption:
< 250W

Backplane (Gbps):
52Gbps

MAC Address Table:
8K

Data Transfer Rate:
10/100/1000Mbps

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)

Performance

Packet Forwarding Rate:
1000Mbps port - 1,488,000pps
100Mbps port - 148,000pps
10Mbps port - 14,880pps

Jumbo Frame (K):
9KB

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%

Installation:
19-inch rack-mountable

Physical Specifications

Dimensions (W x D x H mm):
442 x 300 x 44 mm

Weight (g):
3028g with box, 2274g without box

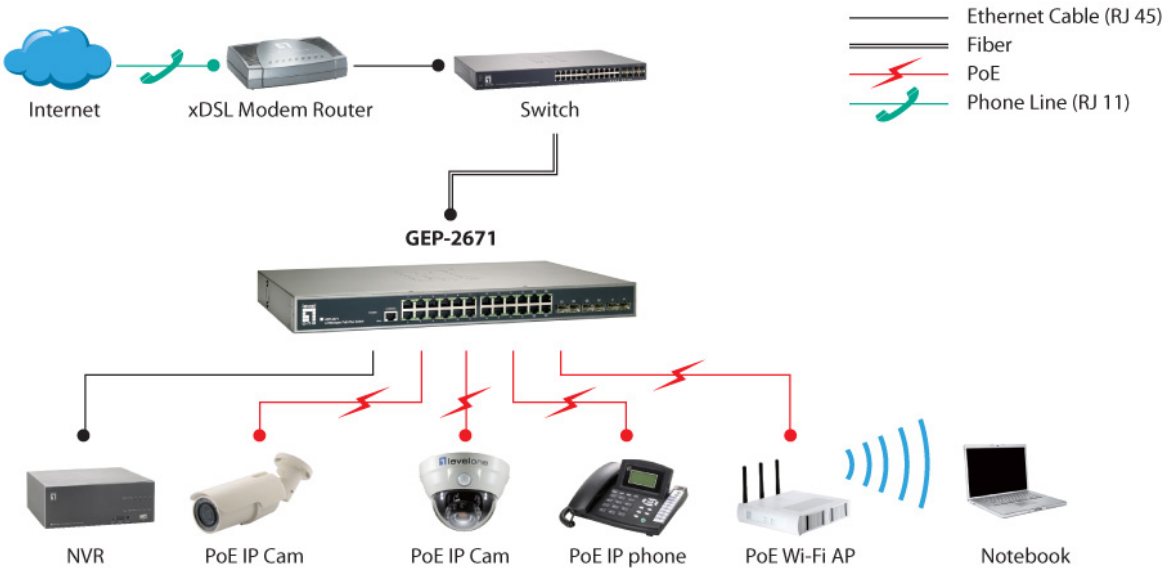
Reliability

MTBF:
260,136 hrs

Approval and Compliance

EMI/EMS:
FCC Part 15 Class A, CE, RoHS

Diagram



Order Information

GEP-2671

Package Contents

GEP-2671
Power Cord
19" Rack Mount Kit
Rubber Feet
Quick Installation Guide
Resource CD (User Manual)