

GEP-5070 Version: 1

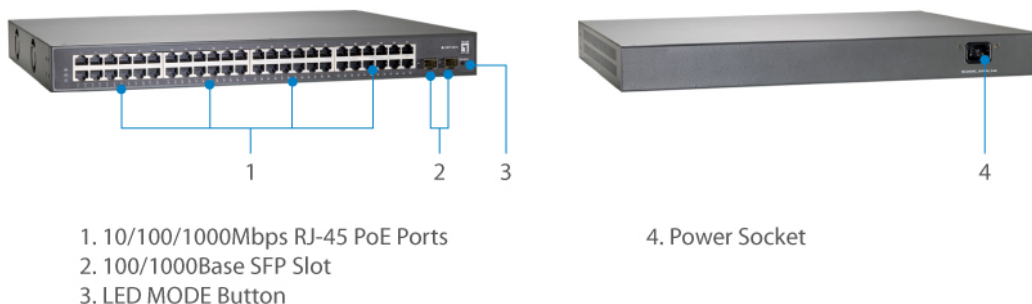


## 50-Port L2 Managed Gigabit PoE Switch, 802.3at PoE+, 375W, 2 x SFP, 48 PoE Outputs

The LevelOne GEP-5070 is an intelligent L2 Managed Switch with 48 x 1000Base-T PoE-Plus ports and 2 x 100/1000BASE-X SFP (Small Form Factor Pluggable) slots. This switch is IEEE 802.3af/at compliant, providing power and data over a single Ethernet cable to any PoE device, with total power budget of 375W, up to 30W per port. Ideal for desktops, it is also 19-inch rack-mountable, which provides convenient and flexible installation.

The switch provides a flexible, web-based management interface SNMP for both IPv4 and IPv6 as well as layer 2 management features. Despite its affordable pricing, the GEP-5070 is equipped with many advanced features such as Internet Group Management Protocol (IGMP) snooping V1/V2/V3 forwarding, VLANs, IEEE 802.1D/w Spanning Tree, Access Control List (ACL) of up to 512 entries for easy network security, Link Aggregation Control (LACP), IEEE 802.1p QoS with 8 priority queues, UPnP for auto-discovery and configuration of devices, Storm Control for protecting against broadcast/multicast/unknown unicast and much 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

- 48 PoE-Plus Gigabit Ethernet ports and 2 Gigabit SFP slots
- IEEE 802.3af/at PoE compliant to simplify deployment and installation
- IEEE 802.1d/w/s Spanning Tree Protocol (STP) and port mirroring
- IEEE 802.3ad LACP for auto port aggregation
- Supports Access Control List (ACL) authentication of up to 512 entries and port-based security with IEEE802.1X
- IP Multicast Filtering through IGMP Snooping V1 / V2 / V3



- Supports port-based VLAN, IEEE 802.1Q VLAN Tagging
- 10K jumbo frames to increase data transfer rates
- Supports IPv4/IPv6 network operation
- IEEE 802.1p QoS with 8 priority queues
- Supports Universal Plug and Play (UPnP) for auto-configure network devices
- NTP time synchronization service
- Total PoE power budget: 375W, up to 30W per port

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## Highlight

### Cost-effective Solutions for IPv6 Deployment

Featuring the most comprehensive set of IPv6 migration technologies, including stateless auto configuration which simplifies IP address assignment by creating a plug-and-play environment in the absence of a DHCP server and the implementation of dual IP stack that allows not only for running both IPv4 and IPv6 applications in parallel but also for facilitating gradual transition between these applications.

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## 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 802.1p Quality of Service (QoS)  
IEEE 802.1Q Virtual LANs (VLANs)  
IEEE 802.1D MAC Bridges  
IEEE 802.1d Standard Spanning Tree Protocol (STP)  
IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)  
IEEE 802.1s Multiple Spanning Tree (MSTP)  
IEEE 802.1X Port-based Network Access Control (PNAC)  
IEEE 802.3x Flow Control (full-duplex 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+)  
Universal Plug and Play (UPnP)

#### Buffer Memory:

512KB

#### Connectors and Cabling:

48 x 10/100/1000Base-T RJ-45 PoE-Plus Ports  
2 x 100/1000Base-X SFP Slots

#### Button:

LED Mode Button

#### Indicator:

Power, Link/Active; PoE

#### Transmission Method:

Store-and-Forward

#### Power:

Power Consumption: 500W  
Power Input: 100-240V AC, 50-60 Hz, Internal Power Supply

### Features

**General:**

Quality of Service (QoS):

8 hardware Priority Queues per port

Traffic classification based on IEEE 802.1p CoS, DSCP, Supports WRR, Strict scheduling, or hybrid mode

Rate Limiting - Ingress resolution 16 Kbps; Egress resolution 16 Kbps

Spanning Tree:

IEEE 802.1D MAC Bridges

IEEE 802.1d Spanning Tree Protocol (STP)

IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

STP Auto Edge

Virtual Local Area Network (VLAN):

802.1Q tag-based VLAN - up to 4096 VLAN IDs; Port-based VLAN; Voice VLAN; Private VLAN

IPv6:

IPv4/IPv6 Dual Protocol stack; IPv6 Address Types Stack (Unicast); ICMPv6; ICMPv6 Redirect (Host);

Stateless Auto Configuration; IPv6 Neighbor Discovery; SNMP over IPv6; HTTP over IPv6; DHCPv6 Client;

Remote IPv6 Ping; NTPv6

DHCP: DHCP Client; DHCP Relay (Layer 2)

IGMP snooping: v1/v2/v3 forwarding; immediate leave

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. 375W

Power Output: Up to 30W per port

Protection: Circuit protection to prevent power interference between ports

Management: PoE status, 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

Access Control:

SSH v1/v2 supported; HTTPS/SSL; IEEE 802.1X Radius/Tacacs+ authentication; Dynamic VLAN assignment

ACLs: Support for up to 512 entries

Filtering: Port-/MAC-/IP-based security

**Management:**

Diagnosis:

Event / Error Log / Syslog

Network:

sFlow; RMON (groups 1, 2, 3 and 9) Management; SNMP v1, v2, v3 User-based Security Model (USM);

DNS client, proxy; HTTP Server; HTTPS; SSHv2; LLDP

**Ease of Use:**

Firmware and Configuration: Upgrade via TFTP/HTTP

**Performance**

Backplane (Gbps):

100Gbps

#### MAC Address Table:

32K

#### Data Transfer Rate:

10/100/1000Mbps

#### Packet Forwarding Rate:

1000Mbps port - 1,488,100pps

100Mbps port - 148,810pps

10Mbps port - 14,881pps

#### Jumbo Frame (K):

10K

### Environment

#### Temperature (°C):

Operating: 0°C ~ 50°C

Storage: -40°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):

440 x 350 x 44.5 mm

#### Weight (g):

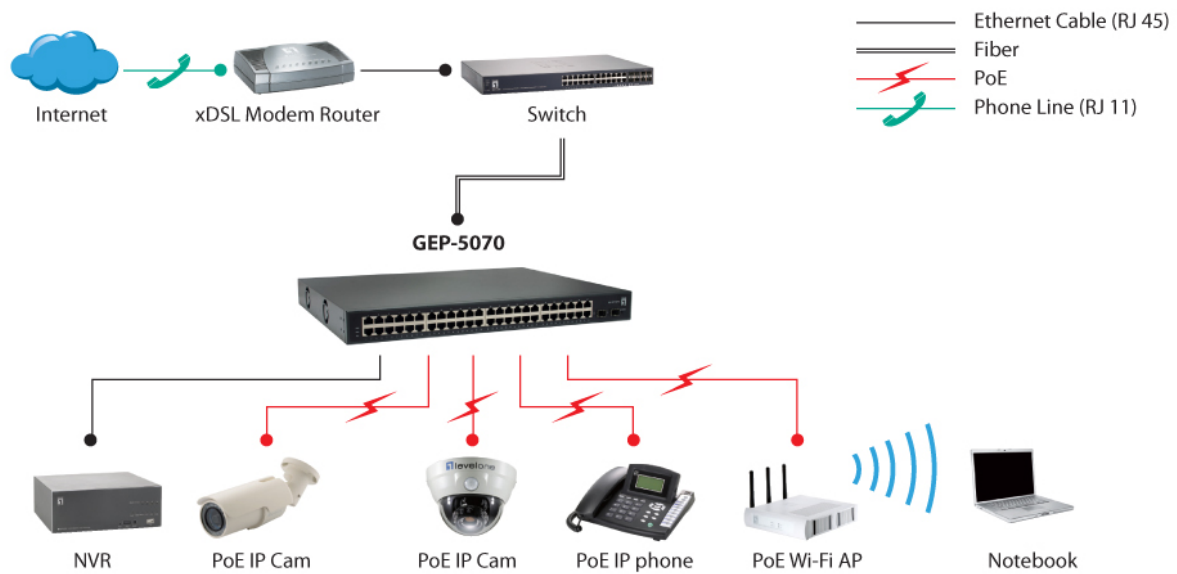
6140g with box, 5190g without box

### Others

#### Approval and Compliance:

FCC Part 15 Class A, CE, RoHS

## Diagram



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## Order Information

GEP-5070

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## Package Contents

GEP-5070  
Resource CD (User Manual)  
Power Cord  
19" Rackmount Kit  
Quick Installation Guide  
Module Brackets

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