

GEP-1070 Version: 1



10-Port L2 Managed Gigabit PoE Switch, 802.3at PoE+, 2 x SFP, 120W

The LevelOne GEP-1070 is 10-port Gigabit Layer-2 Managed PoE+ Switch, is a standard Gigabit Ethernet switch that meets all IEEE IEEE 802.3/u/x/z/ab/af/at standards. The switch includes 8-Port 10/100/1000Mbps RJ-45 with PoE+ function and 2-Port Gigabit SFP for Fiber. It is an ideal solution for applications of wireless AP, IP phones, IP cameras, and IP HDMI TV-Wall of digital signage. It can be managed through Ethernet port using Web-based management, associated with SNMP agent. With the SNMP agent, the network administrator can manage the switch, configure and control in an efficient way. The overall network management is enhanced to meet the network efficiency and to accommodate high bandwidth applications.

In addition, the switch features comprehensive and useful functions such as DHCP Snooping (Including Option 82), QoS (Quality of Service), Spanning Tree, RSTP/MSTP, VLAN, Port Trunking, Port Security, MVR, SNMP/RMON, LLDP and IGMPv3 Snooping capability. GEP-1070 supports the Power saving by reducing the power consumption. It could efficiently save the switch power with auto detecting the client idle and cable length to provide different power.

Key Features

- 8 PoE-Plus Gigabit Ethernet ports and 2 Gigabit SFP slots
- Supports VLAN (tag-based, Q-in-Q)
- Supports 8K MAC address auto-learning and auto-aging
- IEEE 802.3ad LACP for auto port aggregation
- 9K jumbo frames to increase data transfer rates
- Total PoE power budget: 120W, up to 30W per port

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 802.1Q 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)

Memory:
16MB

Buffer Memory:
4Mbits

Connectors and Cabling:
8x RJ-45 10/100/1000BASE-T PoE ports
2 x 100/1000Base-X SFP Slots

Button/Knob:
Reset Button

Indicator:
Power, Link/Active

Transmission Method:
Store-and-Forward

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

Features

General:

Eight integrated IEEE 802.3ab-compliant
10/100/1000Base-T Ethernet copper transceivers with VeriPHY™ cable diagnostics
Advanced Access and QoS Control Lists (ACL and QCL) support
Integrated temperature monitoring circuit
IGMP v1/v2/v3 snooping
VLAN: private VLAN, voice VLAN, MAC-based, protocol-based, 802.1Q tag-based VLAN (up to 4k VLANs)

Layer 2 Switching :

10-port Gigabit Ethernet switch with nonblocking wire-speed performance
Link aggregation (IEEE 802.3ad, 4 trunk groups) with programmable traffic distribution based on Layer 2 through Layer 4 information
Wire-speed Hardware-based learning and CPU-based learning configurable per port
Independent and shared VLAN learning
Jumbo frame support up to 9.6 Kilobytes per-port programmable MTU
Q-in-Q tagging support

QoS :

Eight QoS queues per port with strict or deficit-weighted round robin scheduling
QoS classification based on IEEE 802.1p, EtherType, VID, MAC/IP addresses, IPv4/IPv6 DSCP, and UDP/TCP port and ranges
Data rate shaper and policer per-queue, per-port for both ingress and egress directions
Full-duplex flow control (IEEE 802.3x) and half-duplex backpressure, symmetric and asymmetric
Multicast and broadcast storm control with flooding control

PoE:

Power Budget: Max. 120W
Support IEEE 802.3af (15.4 W)/IEEE802.3at (30W) on each port
Pin Assignment: 1/2(+), 3/6(-)
Dynamic Power Allocation
Auto disable after exceeding power budget
PoE Timer
PoE Auto Checking
PoE-PSE activity LED indicator
Supports per port PoE state setting
Auto detect powered device and consumption monitoring
Supports per port power budget
Smart feature for PD Enable/Disable, PD detection, power level
Circuit protection to prevent power interference between ports
Supports per port power priority setting

Security:

802.1x access control for port based and MAC based authentication
Management Access Policy Control (ACL)
Access control List
IP-MAC-Port binding
DHCP Snooping (Including DHCP Option 82)
SSL/ SSH for Management

Management:

System Password protection
NTP
Dual Image selection /Configuration upload / download (HTTP)
Firmware upgrade (HTTP/TFTP)
RMON/ SNMP
Management Access (SNMP/ HTTP / HTTPS / TELNET / SSH)
CPU Load
System Log
DHCP v4/v6 Snooping
DHCP Snooping Option82

Performance

Backplane (Gbps):

20Gbps

MAC Address Table:

8K

Data Transfer Rate:

10/100/1000Mbps

Packet Forwarding Rate:

14.88Mpps

Jumbo Frame (K):

9K

Environment

Temperature (°C):

0°C ~ 50°C

Humidity (Non-condensing):

5% ~ 90%

Deployment:

desktop & 19-inch rack-mountable

Physical Specifications

Dimensions (W x D x H mm):

280x215x44mm

Weight (g):

2200g

Reliability

MTBF:

307044 hrs

Approval and Compliance



EMI/EMS:
FCC Part 15 Class B, CE

Order Information

GEP-1070

Package Contents

GEP-1070
Power Cord
19" Rack Mount Kit
Quick Installation Guide
Resource CD (User Manual, QIG)

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