

GEP-2851 Version: 1



TURING 28-Port Web Smart Gigabit PoE Switch, 24 PoE Outputs, 4 x SFP, 370W

GEP-2851 Web Smart Gigabit PoE Switch is a next-generation Ethernet Switch offering powerful L2 features, Layer 3 DHCP Server, better PoE functionality and usability that delivers the cost-effectively business and transports Ethernet services via fiber or copper connections. GEP-2851 delivers 24 (10M/100M/1G) RJ45/PoE+ (Support 802.3at/af, and total up to 370W) ports and 4 GbE SFP ports. GEP-2851 provides high HW performance and environment flexibility for SMBs and Enterprises. GEP-2851 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 Gigabit PoE ports and 4 Gigabit SFP slots
- Total PoE power budget: 370W, up to 30W per port
- Supports VLAN (tag-based, Q-in-Q)
- QoS control for traffic prioritization and bandwidth management
- IEEE 802.3ad LACP for auto port aggregation
- IEEE 802.1x Access Control to improve network security
- IEEE 802.1d/w/s Spanning Tree Protocol (STP) and port mirroring
- Minimize carbon footprint with advanced energy efficient technology (IEEE 802.3az)
- DHCP Client/Server
- Supports IPv4/IPv6 network operation
- The built-in Device Management System (DMS) provides management, diagnostics and monitoring to connected network components and devices

Specifications

System Specifications

Standards:

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

Port:

24 x 10/100/1000Mbps RJ45 PoE+ port
4 x 100/1000Mbps Gigabit SFP 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:

15.38W (without PoE)

Backplane (Gbps):

Switching Bandwidth: 56Gbps
Forwarding Performance : 41.7Mpps

MAC Address Table:

8K

Data Rate:

10/100/1000Mbps

Features

General:

Support Storm Control (broadcast/multicast/unknown unicast)
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
ICMP v6;
IGMP:
IGMP v1/v2/v3 snooping; IGMP Queried; IGMP Proxy
Port Mirroring:
Many-to-One TX/RX
QoS Class of service (CoS)
DiffServ (DSCP)
IEEE802.3x Flow Control

PoE:

Power Budget: Max. 370W
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

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

TACACS+ Authentication

Management:

Management Access Filtering:

- SNMP

- Web

- Telnet

- SSH

PoE Management:

- Scheduling

- Auto-Checking

- Power Delay

Event/Error Log:

- Syslog

- SMTP (RFC821)

DHCP:

- Client

- Relay

- Option 66

- Option 67

- Option 82

SNMP (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

Ease of Use:

Firmware and Configuration: Upgrade via HTTP

Performance

Packet Forwarding Rate:

41.7Mpps

Jumbo Frame (K):

9.216K

Switching Capacity:

56Gbps

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

Heat Dissipation:

full loading(PoE on): 1533.62 BTU/hr

Operating Temperature (°C):

0°~40°C

Operating Humidity (Non-condensing):

10~90%

Storage Temperature (°C):

-20°~70°C

Storage Humidity (Non-condensing):

10~90%

Installation:

19-inch rack-mountable

Physical Specifications

Dimensions (W x D x H mm):

442 x 211 x 44 mm

Weight (g):

3142g

Reliability

MTBF:

25°C: 352,063(hr)

50°C: 129,960(hr)

Approval and Compliance

EMI/EMS:

CE

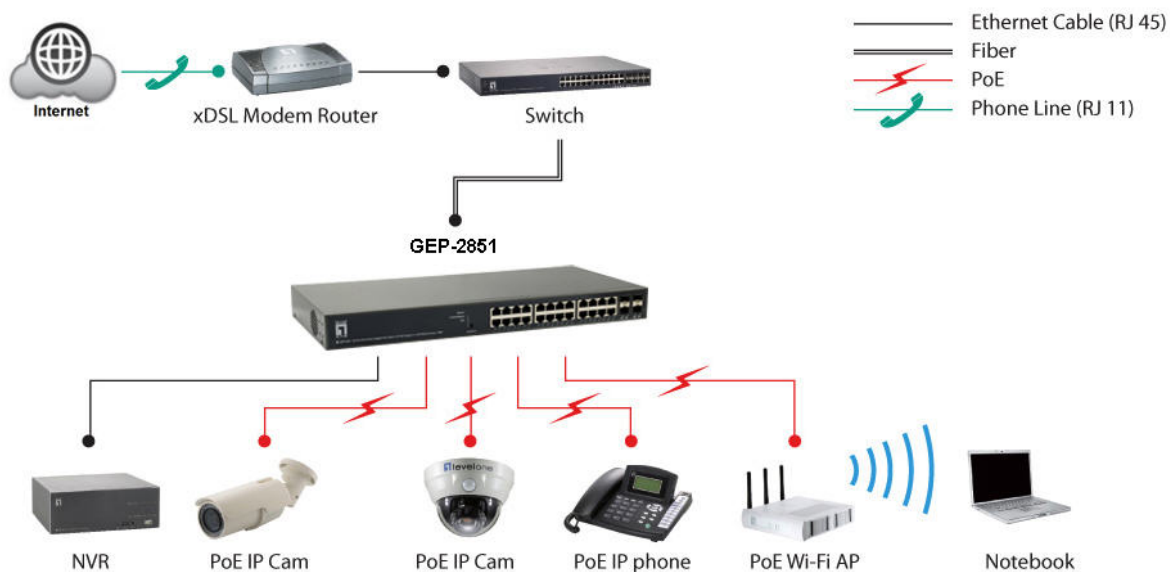
Safety:

FCC Part 15 Class A

Environmental Test:

RoHS

Diagram



Order Information

GEP-2851

Package Contents

GEP-2851
19" Rack Mount Kit
Power Cord
Quick Installation Guide
Resource CD (User Manual, QIG)

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