



GEP-2652 Version: 1

26-Port Web Smart Gigabit PoE Switch, 2 x Gigabit SFP, 24 PoE Outputs, 370W

The LevelOne GEP-2652, the latest web smart generation, is equipped with 24 PoE ports and 2 Gigabit SFP ports. It offers powerful Layer2 capabilities, enhanced PoE functionality and a total PoE budget of 370W. The switch also supports advanced IPv6 management, IPv6 security and IPv6 multicast control to accommodate the growth of IPv6 deployment. Moreover, at an exceptional price/performance ratio. The PoE-enabled GEP-2652 has IEEE 802.3af/at certification, eliminating the challenges associated with standardized devices. It is therefore ideal for companies that want to operate VoIP telephones, wireless access points or network cameras. The GEP-2652 supports up to 30W output power per PoE port, giving you power distribution flexibility for a wide range of PoE PD devices. Adjust your network infrastructure as your business grows and save operating costs with easier management.

Key Features

- 24 Gigabit Ethernet ports and 2 Gigabit SFP slots
- IEEE 802.3af/at PoE compliant to simplify deployment and installation
- Total PoE power budget: 370W, up to 30W per port
- Supports port-based VLAN, IEEE 802.1Q VLAN Tagging and GVRP
- IEEE 802.1d/w/s Spanning Tree Protocol (STP) and port mirroring
- Supports IPv4/IPv6 network operation
- Supports unknown unicast / broadcast / multicast storm control
- MLD, Telnet, SNMP V1, V2c & V3, RMON, Web Browser, and TFTP Management
- IP Multicast Filtering through IGMP Snooping V1 / V2 / V3
- Dynamic ARP Inspection (DAI) protects switches against ARP spoofing

Specifications

System Specifications

Standards:

"IEEE 802.3 100BASE-FX

IEEE 802.3z (1000BASE-SX/LX/LHX/ZX) transceivers

IEEE 802.3x for full-duplex mode

IEEE 802.1D Spanning Tree Protocol (STP)

IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

IEEE 802.1s Multiple Spanning Tree Protocol (MSTP),16 instances

IEEE 802.1Q VLAN

IEEE 802.1v protocol-based VLAN

IEEE 802.3ad Link Aggregation Control Protocol

IEEE 802.1p CoS

IEEE 802.1X port based and MAC based authentication

IEEE 802.3az Energy-Efficient Ethernet (EEE)

IEEE 802.3ah Link

"IEEE 802.1 ag Connectivity Fault Management"

Protocols:

Layer 2 Tunneling Protocol (STP, LACP, UDLD)

Memory:

8MB

Buffer Memory:

128MB

Port:

24 x 10/100/1000Mbps Auto-Negotiation ports

2 x 1000Mbps SFP ports

1 x RJ45 Console Port

Button/Knob:

1 x Reset Button

Transmission Method:

Store-and-Forward

Power Input:

100-240V, 50-60Hz, Maximum: 6.5A

Power Consumption:

435W

Backplane (Gbps):

52Gbps

MAC Address Table:

8K

Features

General:

Virtual Local Area Network (VLAN):

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

Supports 4K VLAN

Port-based VLAN

IEEE 802.1Q VLAN

GVRP

IEEE 802.1v protocol-based VLAN IP Subnet-based VLAN MAC-based VLAN

Traffic Segmentation

L2 Virtual Private Network (Q-in-Q):

Selective Q-in-Q

VLAN Translation

L2 Protocol tunneling (xSTP, LLDP)

Link Aggregation:

Static Trunk

IEEE 802.3ad Link Aggregation Control Protocol Trunk groups: 8, up to 8 GE ports per group

Load Balancing: SA+DA, SA, DA, SIP+DIP, SIP, DIP

Quality of Service (QoS):

Priority Queues: 8 hardware queues per port Traffic classification:

IEEE 802.1p CoS IP Precedence DSCP

Traffic Scheduling:

Strict Priority

Weighted Round Robin Strict + WRR

Diffserv:

Ingress policy map (police rate, remark CoS) Egress policy map (police rate, remark CoS/DSCP)

Rate Limiting (Ingress and Egress, per port base):

GE: Resolution 16 Kbps ~ 1,000 Mbps

Spanning Tree Protocol:

IEEE 802.1D Spanning Tree Protocol (STP)

IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)

IEEE 802.1s Multiple Spanning Tree Protocol (MSTP), 16 instances

IPv6 Features

IPv4/IPv6 Dual Protocol stack IPv6 Address Types Stack: Unicast IPv4/IPv6 Dual Protocol stack

Duplicate address Address resolution

Stateless auto-configuration Manual configuration Remote IPv6 ping

IPv6 Telnet support HTTP over IPv6

SNMP over IPv6

IPv6 MLD filter and throttling IPv6 ND snooping

MLD Snooping v1/v2 IPv6 source guard DHCPv6 snooping MVR6

DHCP client for IP address assignment

DHCP dynamic provision option 66,67

DHCP Snooping DHCP Option 82

DHCP Option 82 Relay

Port mirroring (many source ports to one destination port. One

source port to one destination port only)

IGMP Snooping:

IGMP v1/v2/v3 Snooping

IGMP Proxy Reporting

IGMP Filtering

IGMP Throttling

IGMP Immediate Leave

IGMP Querier

PoE:

Power Budget: Max. 370W Power Output: Up to 30W per port Pin Assignment: 1/2(+), 3/6(-)

Security:

Management Security:

Login Security

RADIUS authentication RADIUS accounting TACACS + authentication TACACS + accounting

TACACS + authorization

Management Interface Access Filtering (SNMP, Web, Telnet) SSH (v1.5/v2.0) for security Telnet

SSL for HTTPS SNMPv3

Network Security:

IPv6 ACL

Port security

Dynamic ARP Inspection

CPU guard

echo-chargen smurf tcp-flooding tcp-null-scan tcp-syn-fin-scan tcp-xmas-scan udp-flooding win-nuke Storm Control: Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port

ACLs: Suppoer L2/L3/L4 MAC Access control list

User Security for Enterprise:

IEEE 802.1X port based and MAC based authentication Dynamic VLAN Assignment, Dynamic QoS assignment MAC authentication

Web authentication

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User Security for ISP/MSO:

L2/L3/L4 Access Control List

MAC Access control list (Source/Destination MAC, Ether type,

Priority ID/ VLAN ID)

IP standard access control list (Source IP)

IP extended access control list (Source/Destination IP, Protocol,

TCP/UDP port number) DHCP Snooping

DHCP Option 82

DHCP Option 82 Relay IP Source Guard

Performance

Packet Forwarding Rate:

38.69Mpps

Jumbo Frame (K):

9K

Environment

Operating Temperature (°C):

0°C ~ 45°C

Operating Humidity (Non-condensing):

10% ~ 90%

Storage Temperature (°C):

-40°C ~ 70°C

Storage Humidity (Non-condensing):

5% ~ 90%

Physical Specifications

Dimensions (W x D x H mm):

440 x 208 x 44 mm

Weight (g):

3875g

Approval and Compliance

EMI/EMS:

CE Mark

Environmental Test:

RoHS

Order Information

Package Contents

GEP-2652

Power Cord

Console Cable

19" Rack Mount Kit

Rubber Feet

Quick Installation Guide

Resource CD (User Manual, QIG)

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