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 PoE 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 802.1p CoS IP Precedence DSCP
- IEEE 802.3ah Ethernet Link OAM

- IEEE 802.1ag 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 to 240 V, 50/60 Hz, Maximum: 6.5A

Power Consumption:
- 435 W

Backplane (Gbps):
- 52 Gbps

MAC Address Table:
- 8 K

Operating Temperature (°C):
- 0°C to 45°C

Operating Humidity (Non-condensing):
- 10% to 90%

Storage Temperature (°C):
- -40°C to 70°C

Storage Humidity (Non-condensing):
- 5% to 90%

Features

General:
L2 Features
- Spanning Tree Protocol
- 802.1D Spanning Tree Protocol (STP)
- 802.1w Rapid Spanning Tree Protocol (RSTP)
- 802.1s Multiple Spanning Tree Protocol (MSTP), 16 instances
- MAC Address Table
- Up to 8K entries
- 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
- 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
- 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:
- 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

L2 Multicast Features
- IGMP Snooping
- IGMP v1/v2/v3 Snooping
- IGMP Proxy Reporting
- IGMP Filtering
- IGMP Throttling
- IGMP Immediate Leave
- IGMP Querier
- MLD Snooping v1/v2

IPv6 Features
- Native IPv6
- IPv4/IPv6 Dual Protocol stack
- IPv6 Address Types Stack: Unicast
- IPv4/IPv6 Dual Protocol stack
- Duplicate address
- Remote IPv6 ping
- IPv6 Telnet support
- HTTP over IPv6
- SNMP over IPv6
- IPv6 MLD filter and throttling
- MLD Snooping v1/v2
- DHCPv6 snooping

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

Security:
- Port Security (MAC Flooding Attack / MAC Spoofing Attack Prevention)
- DoS Attack Protection
- 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
- Voice VLAN

- Guest VLAN

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

Management:
- Web-based GUI
- CLI
- Telnet
- SNMP v1, v2c, v3
- Firmware upgrade via TFTP/HTTP server
- Multiple configuration files
- Configuration file upload/download via TFTP/HTTP server Firmware auto upgrade
- RMON (groups 1, 2, 3 and 9)
- BOOTP, DHCP client for IP address assignment
- SNTP/NTP
- DNS client
- Event/Error Log
- Syslog
- SMTP
- Supports LLDP (802.1ab)
- Cable diagnostics

Performance

Packet Forwarding Rate:
- 38.69 Mpps

Jumbo Frame (K):
- 9 K

Physical Specifications

Dimensions (W x D x H mm):
- 440 x 208 x 44 mm

Weight (g):
- 3875 g

Approval and Compliance

EMI/EMS:
- CE

Environmental Test:
- RoHS

Order Information

GEP-2652

Package Contents

GEP-2652
Power Cord
Console Cable
19" Rack Mount Kit
Rubber Feet
Quick Installation Guide
Resource CD (User Manual, QIG)