

# GEL-2871 28-Port L2 Plus Managed Gigabit Switch, 24 x Gigabit RJ45, 4 x Gigabit SFP

## Product Images



## Short Description

- 24 Gigabit Ethernet ports and 4 Gigabit SFP slots
- IEEE 802.3ad LACP for auto port aggregation
- IEEE 802.1d/w/s Spanning Tree Protocol (STP) and port mirroring
- IP Multicast Filtering through IGMP Snooping V1 / V2 / V3
- Supports VLAN (Port-based, Protocol-based, Private, Q-in-Q, Tag-based)
- Supports IPv4/IPv6 network operation

## Description

The LevelOne GEL-2871 is an intelligent 28-Port L2 plus managed gigabit switch with 24 RJ45 ports and 4 SFP fiber slots, designed for enterprise or large workgroups connectivity applications with the non-blocking, wire-speed switching performance and advanced networking management functions.

The switch supports a flexible web-based management interface for both IPv4 and IPv6 as well as console, SNMP and Telnet management access. Despite its affordable pricing, the GEL-2871 is equipped with many advanced features such as Internet Group Management Protocol (IGMP) snooping, port-/MAC-/tag-based VLAN, IEEE 802.1D/w/s Spanning Tree, Access Control List (ACL), IEEE 802.3az Energy Efficient Ethernet, Link Aggregation Control Protocol (LACP), IEEE 802.1p QoS, Storm Control for protecting against broadcast/multicast/unknown unicast and much more.

An ideal network solution for anyone looking for an affordable and efficient way to expand their network.

## Additional Information

|                                 |                                                                                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------|
| Approval and compliance         | ● FCC Part 15 Subpart B ● CE Mark ● EN IEC 62368-1 ● EN 55032 ● EN 55035 ● EN 61000-3-2/3 ● RoHS |
| Max. operating humidity (%)     | 90                                                                                               |
| Max. operating temperature (°C) | 50                                                                                               |
| Max. storage humidity (%)       | 95                                                                                               |
| Max. storage temperature (°C)   | 70                                                                                               |
| Min. operating humidity (%)     | 10                                                                                               |
| Min. storage humidity (%)       | 5                                                                                                |
| Min. storage temperature (°C)   | -40                                                                                              |
| Embedded system                 | Linux                                                                                            |
| Acoustic noise (dB)             | less than 45 dB                                                                                  |
| Backplane (Gbps)                | 56                                                                                               |
| Packet buffer                   | 12 Mbits                                                                                         |
| Indicators                      | ● Power ● Link/Active                                                                            |
| Jumbo frame (KB)                | 10                                                                                               |
| MAC address table               | 16 K                                                                                             |
| RAM size                        | 256 MB                                                                                           |
| Flash memory size               | 512 MB                                                                                           |

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Mount                | 19" rack mount, Desk mount                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Power supply         | 100-240 VAC, 50-60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Chipset              | 98DX225S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Standards            | <ul style="list-style-type: none"> <li>● IEEE 10BASE-T (IEEE 802.3) ● IEEE 100BASE-TX (IEEE 802.3u) ● IEEE 1000BASE-T (IEEE 802.3ab) ● IEEE 802.3z (1000BASE-SX/LX/LHX/ZX) Transceivers ● IEEE 802.3ad Dynamic Link Aggregation (2.5GE) ● IEEE802.3x flow control ● IEEE 802.1Q VLANs (Supports 4K) ● IEEE 802.1D Spanning Tree Protocol (STP) ● IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) ● IEEE 802.1s Multiple Rapid Spanning Tree Protocol (MSTP, 64 instances)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                |
| Features             | <ul style="list-style-type: none"> <li>Port aggregation ● Support GE port, 2.5GE aggregation ● Support static and dynamic aggregation VLAN ● Mac Based VLAN ● IP Based VLAN ● Protocol Based VLAN ● Support access, trunk and hybrid mode QinQ ● Basic QinQ (Port-based QinQ) ● Flexible Q in Q (VLAN-based QinQ) ● QinQ (Flow-based QinQ) Port mirroring ● Many to one (Port Mirroring) Layer 2 ring network protocol ● Support STP、RSTP、MSTP ● Support G.8032 ERPS protocol, single ring, sub ring and other ring QoS ● QoS Class, Remarking ● Support SP, WRR queue scheduling ● Ingress Port-based Rate-limit ● Egress Port-based Rate-limit ● Policy-based QoS ACL ● IP Standard ACL ● MAC extend ACL ● IP extend ACL Multicast ● IGMP V1,V2,V3 ● IGMP snooping ARP ● ARP table aging DHCP ● DHCP Client ● DHCP Snooping IPv4/IPv6 ● Static routing</li> </ul> |
| Management           | <ul style="list-style-type: none"> <li>● NTP ● LLDP ● TFTP Client ● Telnet Server ● SSH Server ● IPv6 Management ● SNMP V1/V2C/V3 ● Ping、Tracert ● RMON(Remote Monitoring)alarm, event and history record ● Management Access (Console, SNMP, Web, Telnet ) ● Firmware upload/download (HTTP/HTTPS/TFTP/FTP) ● Configuration upload/download (HTTP/HTTPS/TFTP/FTP) ● Support optical transceiver DDM function ● Support temperature monitoring ● Support Syslog and alarm grading</li> </ul>                                                                                                                                                                                                                                                                                                                                                                        |
| Security             | <ul style="list-style-type: none"> <li>● Support Dot1x, port authentication, mac authentication, RADIUS service ● Support port-security ● Support ip source guard, IP/Port/MAC binding ● Support arp-check and ARP packet filtering for illegal users</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product breadth (mm) | 440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product depth (mm)   | 245                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product height (mm)  | 44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Color                | Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| EAN                  | 4015867228579                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Model number         | GEL-2871                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Package contents     | <ul style="list-style-type: none"> <li>● GEL-2871 ● Power Cord ● Console Cable ● 19" Rack Mount Kit ● Quick Installation Guide ● Declaration of Conformity</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Grade                | Commercial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Data Rate            | Gigabit Ethernet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PoE Supported        | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Manageable           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Fanless              | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Concurrent ports     | Total28.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Heat dissipation     | 136.48 BTU/hr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| MTBF                 | 534,057 hrs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

