GEL-5271 52-Port L2 Plus Managed Gigabit Switch, 48 x 1GbE RJ45, 2 x 1GbE SFP, 2 x 1/2.5GbE SFP Uplink Slots

Product Images











Short Description

- **High-Density Access Ports:** 48 x 1GbE RJ45 ports for connecting PCs, IP phones, access points and other edge devices.
- **Flexible Uplinks:** 2 x 1GbE SFP and 2 x 1/2.5GbE SFP fiber slots for scalable aggregation and backbone connectivity.
- **Advanced L2+ Features:** Supports VLAN (port-based, protocol-based, private VLAN, Q-in-Q, tag-based), plus full L2 Plus switching functions.
- **Resilience & Aggregation:** IEEE 802.1d/w/s Spanning Tree for loop protection and IEEE 802.3ad LACP for automatic link aggregation.
- **Efficient Multicast:** IGMP Snooping v1/v2/v3 for optimized IPTV, VoD and other multicast traffic.
- **QoS & Traffic Control:** IEEE 802.1p QoS and storm control to prioritize critical services and protect against broadcast/multicast/unknown-unicast floods.
- **IPv4/IPv6 Management:** Web, console, SNMP and Telnet management with dual-stack IPv4/IPv6 support for modern enterprise deployments.
- **Energy Saving:** IEEE 802.3az Energy Efficient Ethernet to reduce power consumption without sacrificing performance.

Description

The LevelOne GEL-5271 is a 52-port L2 Plus managed Gigabit switch designed for enterprise networks, campus backbones and large workgroups that need reliable, high-density copper and fiber connectivity. It provides 48 x 1GbE RJ45 access ports for desktops and edge devices, plus 2 x 1GbE SFP and 2 x 1/2.5GbE SFP uplink slots for flexible aggregation over short- or long-distance fiber links.

Featuring a non-blocking, wire-speed switching fabric, the GEL-5271 delivers consistent Gigabit performance for VoIP, IP surveillance and high-volume data applications. Advanced L2+ functions include rich VLAN options (port-, MAC-, protocol-, private VLAN, Q-in-Q), IEEE 802.1D/w/s Spanning Tree for loop protection, IEEE 802.3ad LACP link aggregation, IGMP Snooping for efficient multicast streaming, and granular QoS for traffic prioritization.

For management, the switch offers an intuitive web GUI along with console, Telnet and SNMP access, and supports both IPv4 and IPv6 operation. Energy Efficient Ethernet (IEEE 802.3az) and storm control help reduce power consumption and protect the network from broadcast and multicast storms. The GEL-5271 is an ideal core or distribution switch for organizations seeking an affordable, feature-rich and scalable layer-2+ solution.

Additional Information

Power consumption.	36 W
Model Number.	GEL-5271
Features.	QoS Features ● Rate Limiting (Ingress/Egress Port-Based): 64 Kbps ~ 1000 Mbps, Resolution 64 Kbps ● 8 HW Queues per port ● IPv4/IPv6 DSCP IPv6 ● HTTP over IPv6 ● SNMP over IPv6 ● IPv4/IPv6 Dual Protocol Stack ● IPv6 Management ● IPv6 Ping/Trace ● IPv6 Telnet ● IPv6 Syslog ● IPv6 TFTP L3 Features ● Static Routing ● RIP
Management.	● Dual Image/Configuration ● Configuration upload/download (HTTP/TFTP/FTP/SFTP) ● Firmware upload/download (HTTP/TFTP/FTP/SFTP) ● System password protection ● Management Access (Console/SNMP/Web /Telnet) ● Memory Flash Log ● Event/Error Log/Syslog ● DHCP Client/DHCP Snooping(IPv4) ● DHCP Snooping Option82 ● Port Mirroring (One to One) TX/RX (both) ● NTP/SNTP ● RMON ● SNMP Trap ● SNMP v1/v2c/v3 ● SNMP Standard/Private MIB
Security.	● Storm Control ● Broadcast/Multicast/Unknown Storm Control ● Port Isolation ● Port Mirror (One to One, One to Many) ● Remote Mirror ● IEEE 802.1X ● DDOS Protection ● CPU Guard (CPU Protection) ACL ● Ingress Only ● L2/L3/L4 ● ACL entry: 240 ● IPv4 ● TCP/UDP-Based, MAC-Based ACL ● AAA (RADIUS/TACACS+)
Approval and Compliance	CE, FCC, RoHS
Color	Black
Dimensions (W x D x H mm)	440 x 300 x 44 mm
Product Net Weight	3500 gram
PoE Supported.	No
Concurrent ports.	Total 52.00
Fanless.	No
Manageable.	Yes
Grade.	Commercial

Acoustic noise (dB).	45
Backplane (Gbps).	110
Data Rate.	1Gbps, 2.5Gbps
Flash memory size.	512 MB
Heat dissipation.	136.48 BTU/hr
Indicators.	● Power ● Link/Active
Jumbo frame (KB).	10
MAC address table.	16 K
Mount.	19" rack mount, Desk mount
MTBF.	534,057 hrs
Packet buffer.	12 Mbits
Port Configuration.	48x 10/100/1000 Ethernet ports (ports 1-48) , 2x 1GbE SFP Ports (ports 51-52) , 2x 1/2.5GbE SFP Ports (ports 49-50)
Power supply.	100-240 VAC, 50-60 Hz
Power supply included.	Yes
RAM size.	256 MB
Standard.	● 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)
Operating humidity.	10% RH ~ 90% RH
Operating temperature.	0°C ~ 50°C
Storage humidity.	5% RH ~ 90% RH
Storage temperature.	-40°C ~ 70°C
Package Contents.	● GEL-5271 ● Power cord ● 19" Rack Mount Kit ● Quick Installation Guide ● Declaration of Conformity

Harmonized System (HS) code.	851762
Customs product code (TARIC).	8517620000
EAN.	4015867227824
Embedded system.	Linux

