

GEL-2861 Version: 1



KILBY 28-Port L2 Managed Gigabit Switch, 4 x SFP

The GEL-2861 is a L2 managed switches designed for the SMB market. The switches can be deployed indifferent target network topologies, from small to large. As well as IPv4 and IPv6 features.

The GEL-2861 includes the best green-saving technologies (IEEE 802.3az and Green-Ethernet). Using the Energy Efficient Ethernet standard, the switch automatically decreases power usage when network traffic is low.

Key Features

- 24 Gigabit Ethernet ports and 4 Gigabit SFP slots
- IEEE 802.1d/w/s Spanning Tree Protocol (STP) and port mirroring
- IEEE 802.3ad LACP for auto port aggregation
- Supports Access Control List (ACL) authentication of up to 512 entries and port-based security with IEEE802.1X
- IP Multicast Filtering through IGMP Snooping V1 / V2 / V3
- Supports port-based VLAN, IEEE 802.1Q VLAN Tagging
- Supports IPv4/IPv6 network operation
- IEEE 802.1p QoS with 8 priority queues
- Virtual stacking supports up to 36 switches in a single logical stack for unified management, monitoring and configuration

Specifications

System Specifications

Standards:

IEEE 802.3 10-BASE-T, Ethernet
 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 802.1Q 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 802.3x Flow Control
 IEEE 802.3ad Link Aggregation Control Protocol (LACP)
 IEEE 802.3az Energy-Efficient Ethernet
 Link Layer Discovery Protocol (LLDP)

**Protocols:**

Universal Plug and Play (UPnP)

SNMP v1/v2/v3

RMON Groups 1,2,3,9 (Statistics, History, Alarm, Event)

LLDP, LLDP-MED

Memory:

Flash Memory: 32MB

DRAM: 256 MB

Buffer Memory:

4.1Mbits

Port:

24x RJ-45 10/100/1000BASE-T ports

4 x 100/1000Base-X SFP Slots

Button/Knob:

Reset / Factory Default Button

Indicator:

Power; Link/Active

Transmission Method:

Store-and-Forward

Power Input:

100-240V AC, 50-60 Hz, Internal Power Supply

Power Consumption:

< 20W

Backplane (Gbps):

56Gbps

MAC Address Table:

8K

Data Rate:

10/100/1000Mbps

Acoustic Noise:

0 dB (A)

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:

68,242 (Btu/H)

Operating Temperature (°C):

0-50 C

Operating Humidity (Non-condensing):

10-90%

Mount:

desktop & 19-inch rack-mountable

Features

General:

Quality of Service (QoS):

8 hardware Priority Queues per port

Traffic classification based on IEEE 802.1p CoS

IPv4/IPv6 precedence/ type of service (ToS) / DSCP based

Rate Limiting - Ingress policer egress shaping and rate control

Scheduling for priority queues:

WRR Priority Scheduling

Strict Priority Scheduling
Hybrid (DDR/WRR+Strict)
Spanning Tree:
Bridge Protocol Data Units (BPDU)
IEEE 802.1D MAC Bridges
IEEE 802.1d Spanning Tree Protocol (STP)
IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
Virtual Local Area Network (VLAN):
802.1Q tag-based VLAN - up to 4K VLANs and 4K VLAN IDs
Port-based VLAN
MAC-based VLAN
DHCP: DHCP Client; DHCP Relay (Layer 2)
IPv6:
IPv6 Ping / Trace / Telnet / Syslog / TFTP
IPv4/IPv6 Dual Protocol Stack
IPv6 Address Type: Unicast/Multicast
ICMPv6
ICMPv6 Redirect (Host)
IPv6 Path MTU Discovery
IPv6 Neighbor Discovery:
Router Discovery/Duplicate Address/Parameter Discovery/Prefix Discovery/Address Resolution/Unreachable Neighbor Detection
Stateless Autoconfiguration
Manual Configuration
SNMP over IPv6
HTTP over IPv6
IPv6 Telnet Support
IPv6 Syslog Support
IPv6 TFTP Support
Remote IPv6 Ping
Ping over IPv6
trace route over IPv6
DHCPv6: Client/Relay
MLD Snooping v1/v2
IGMP:
IGMP v1/v2/v3 snooping; IGMP Queried; IGMP Filtering /Throttling
Port Mirroring:
One to One /One to Many
IEEE 802.3ad LACP Trunk
Security:
DDOS Protection
CPU Guard
Port Isolation
Port Mirror /Remote Mirror
Broadcast / Multicast / Unknown Storm Control
802.1X
ACL
Port Security
MAC Filter / MAC Authentication
AAA
IP Source Guard
SSH
Dynamic ARP Inspection
Cable diagnostics

Management:

System Password protection
NTP/SNTP
Dual Image /Configuration
Firmware upgrade /download (HTTP/TFTP/FTP)
RMON/ SNMP
Management Access (Console / SNMP/ Web / Telnet)
Memory Flash Log
Event /Error Log
DHCP v4/v6 Snooping
DHCP Snooping Option82
Support Port Statistics

L3:

Static Routing

Ease of Use:

Dashboard

Performance

Packet Forwarding Rate:

41.7 Mpps

Jumbo Frame (K):

10K

Physical Specifications

Dimensions (W x D x H mm):

440*220*44mm

Weight (g):

4600g with box, 2400g without box

Reliability

MTBF:

25 degreeC: 563,826 hrs

45 degreeC: 314,969 hrs

Approval and Compliance

EMI/EMS:

CE classA,FCC,VCCI

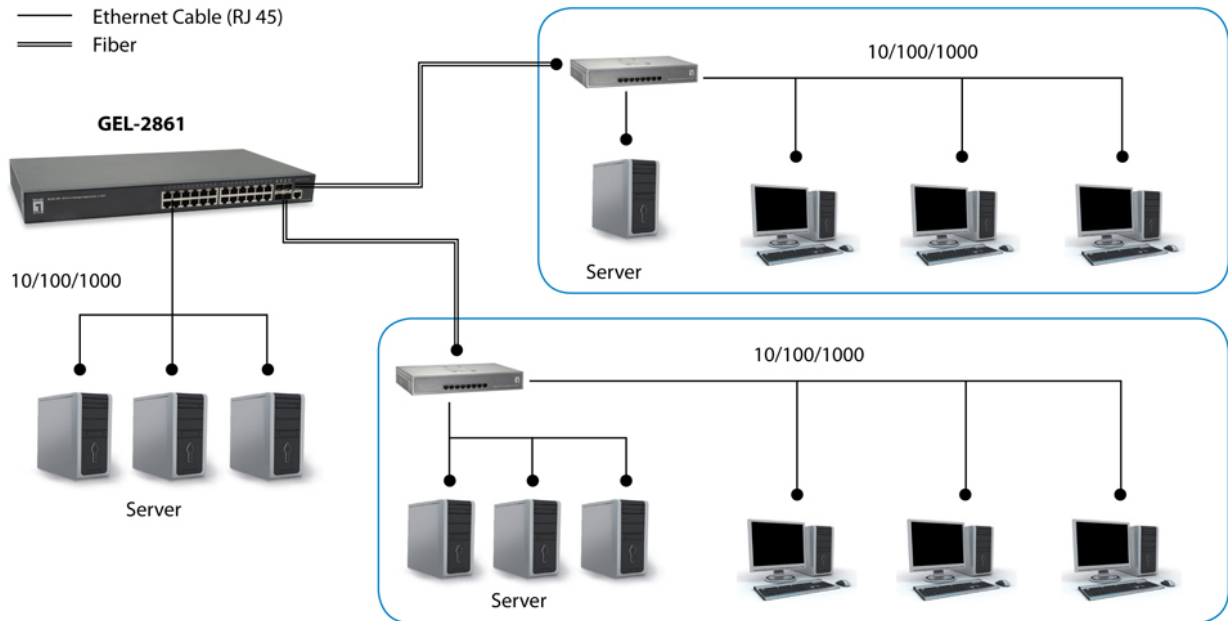
Safety:

UL,BSMI,CB IEC-60950

Environmental Test:

RoHS

Diagram



Order Information

GEL-2861

Package Contents

GEL-2861
Power Cord
Quick Installation Guide
Resource CD (User Manual, QIG)
Console Cable
19" Rack Mount Kit