

GEL-1061 Version: 1



## 10-Port L2 Managed Gigabit Switch, 2 x SFP

The GEL-1061 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-1061 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

- 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

### Specifications

#### System Specifications

##### Standards & Protocols:

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)  
 Universal Plug and Play (UPnP)

##### Memory:

32MB

**Buffer Memory:**

4.1Mbits

**Connectors and Cabling:**

8x RJ-45 10/100/1000BASE-T ports

2 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:**

< 8W

## 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

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

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

**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

**Ease of Use:**

Dashboard

**Performance****Backplane (Gbps):**

20Gbps

**MAC Address Table:**

8K

**Data Transfer Rate:**

10/100/1000Mbps

**Packet Forwarding Rate:**

14.9 Mpps

**Jumbo Frame (K):**

10K

**Environment****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

**Acoustic Noise:**

0 dB (A)

**Heat Dissipation:**

27.297 (Btu/H)

**Temperature (°C):**

0-50 C

**Humidity (Non-condensing):**

10-90%

**Deployment:**

desktop

**Physical Specifications****Dimensions (W x D x H mm):**

19.6x11.7x3.6mm

**Weight (g):**

Gross: 3007g

Net: 817g



## Reliability

### MTBF:

25 degreeC: 1284936 hrs

45 degreeC: 55390 hrs

## Approval and Compliance

### EMI/EMS:

CE classA, FCC, UL, VCCI, BSMI

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## Order Information

GEL-1061

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## Package Contents

GEL-1061

Power Cord

19" Rack Mount Kit

Quick Installation Guide

Resource CD (User Manual)

Console Cable

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