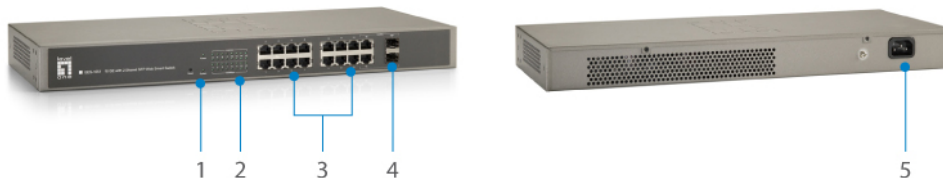




## 16-Port Web Smart Gigabit Ethernet Switch, 2 x SFP/RJ45 Combo

LevelOne GES-1651 is a powerful, high-performance Gigabit Ethernet switch with 16 10/100/1000Mbps ports shared 2 SFP(mini GBIC) ports, providing you a cost-effective, space-saving solution for expanding your network. The gigabit ports can lead you to a real gigabit connection, making you be able to transfer high bandwidth-needed files larger and faster in an easy way. And the two gigabit SFP ports allow you to add fiber-optic connectivities for connecting to other network switches to obtain long-distance communication. This GES-1651 device provides the easy management function, the network administrator can configure the status and the port function setting of the device through the Web-Based UI. When installing the auto-discovery management tool helps network managers to search and access those switches on LAN easily. Therefore, network managers can access switches that support autodiscovery on LAN without memorizing IP address.



1. Reset Button
2. LED Indicators
3. 10/100/1000Mbps Ports
4. SFP Slot
5. Internal Power Socket

### Key Features

- 16 Gigabit Ethernet ports with 2 shared SFP slots
- 10/100/1000Mbps wire speed transmission and reception
- IEEE 802.1d/w/s Spanning Tree Protocol (STP) and port mirroring
- IEEE 802.1p QoS with 4 priority queues
- Supports port-based VLAN, IEEE 802.1Q VLAN Tagging
- IP Multicast Filtering through IGMP Snooping V1 / V2 / V3
- 10K jumbo frames to increase data transfer rates
- Supports 8K MAC address auto-learning and auto-aging
- 19-inch metal housing
-



## 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 802.1p Quality of Service (QoS)  
IEEE 802.1Q Virtual LANs (VLANs)  
IEEE 802.1D MAC Bridges  
IEEE 802.1d Standard Spanning Tree Protocol (STP)  
IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)  
IEEE 802.1s Multiple Spanning Tree Protocol (MSTP )  
IEEE 802.3x Flow Control (full-duplex flow control)

#### Buffer Memory:

4086KB

#### Connectors and Cabling:

16 x 10/100/1000BASE-T RJ-45 ports  
2 x 100/1000Base-X SFP Slots (2 shared)

#### Button:

Reset Button

#### Indicator:

Power, System, Link/Active, 1000Mbps

#### Transmission Method:

Store-and-Forward

#### Power:

Power Consumption: 14.7W  
Power Input: 100-240V AC, 50-60 Hz, Internal Power Supply

### Features

#### General:

Quality of Service (QoS):  
4 hardware Priority Queues per port  
Traffic classification based on IEEE 802.1p CoS, DSCP, Supports WRR, Strict scheduling, or hybrid mode  
Rate Limiting - Ingress resolution; Egress resolution

#### Spanning Tree:

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 )  
Loop/Root Guard, TC-BPDU Guard, BPDU Guard/Filter

#### Virtual Local Area Network (VLAN):

802.1Q tag-based VLAN - up to 4096 VLAN IDs

#### Security:

##### Storm Control:

Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port

##### Access Control:

HTTPS; Manage VLAN assignment

Port security: access control port-based

Filtering: Port-/MAC-/IP-based security

**Management:**

Diagnosis:  
syslog

**Network:**

RMON (groups 1, 2, 3 and 9) Management; SNMP v1, v2c, v3; DNS client, proxy; HTTPs

**Ease of Use:**

Firmware and Configuration: upgrade/downgrade via HTTP

## Performance

**Backplane (Gbps):**

32Gbps

**MAC Address Table:**

8K

**Data Transfer Rate:**

10/100/1000Mbps

**Packet Forwarding Rate:**

1000Mbps port - 1,488,000pps

100Mbps port - 148,000pps

10Mbps port - 14,880pps

**Jumbo Frame (K):**

10K

## Environment

**Temperature (°C):**

Operating: 0°C ~ 40°C

Storage: -40°C ~ 70°C

**Humidity (Non-condensing):**

Storage: 5% ~ 90%

Operating: 10 ~ 90%

**Deployment:**

19-inch rack-mountable

## Physical Specifications

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

440 x 180 x 44 mm

**Weight (g):**

2000 g

## Reliability

**MTBF:**

107949 hour

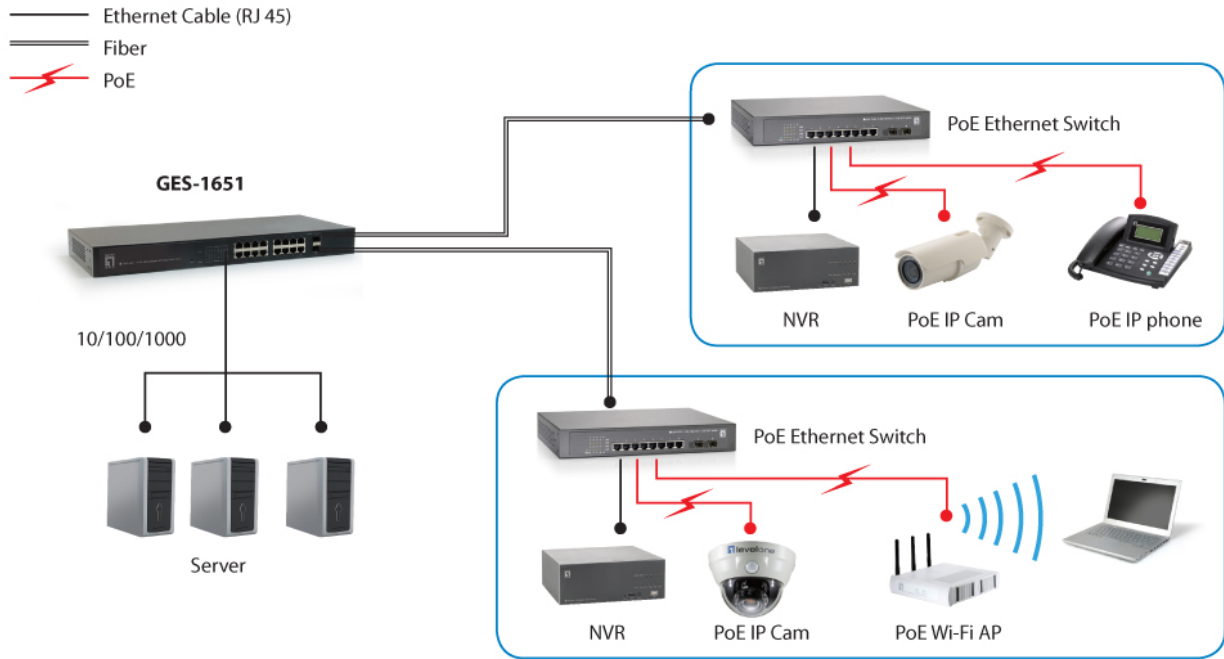
## Others

**Approval and Compliance:**

FCC Part 15 Class A, CE, RoHS



## Diagram



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## Order Information

GES-1651

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## Package Contents

GES-1651  
Power Cord  
19" Rackmount Kit  
Rubber Feet  
Quick Installation Guide  
Resource CD (User Manual)

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