



# 16-Port 10/100/1000Mbps w/ SFP Web Smart



GSW-1641

H/W Version: 1

## Gigabit Ethernet Solution

LevelOne GSW-1641 Gigabit switch equips 16 Gigabit ports that lead you to a real Gigabit connection. Users are now able to transfer large and high bandwidth-needed files faster and hence get a real efficiency improvement. In addition to the copper ports, the one of the ports support fiber connection with the equipped SFP ports for obtaining long-distance communication.

## Fast and Reliable Technology

GSW-1641 offers users with fast and reliable network. The store-and-forward architecture filters errors and forwards packets in a non-blocking environment. Flow control ensures the correctness of data transmitting. The 802.3x and backpressure flow control mechanisms work respectively for full and half duplex modes. This device supports Nway auto-negotiation protocol that detects the networking speed and the duplex modes (Full/Half) automatically. Auto-

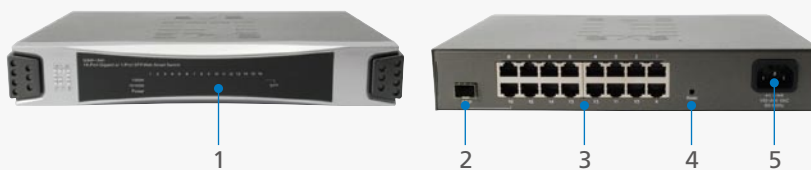
MDI/MDI-X function alleviates the effort to use crossover cables.

## Web-based Management Interface

Friendly web management features are ready for users easily to configure and maintain the device through a general web browser. You can partition the switch into 16 groups using port-based VLAN technology. This switch also supports Quality of Service (QoS) to prioritize traffic for time-sensitive applications

## Easy to Use

For instant error detection, the switch is equipped with a full range of LEDs to help you monitor and troubleshoot problems on your network. The slim and unique design fits easily in any space-limited location. Users can locate the switch on the desktop. With the accessory kits, the switch can either be stacked or mounted to the rack to save space.



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

## Key Features

- Complies with IEEE 802.3, 802.3u, 802.3ab and 802.3z
- 16 x 10/100/1000 Mbps RJ-45 Nway ports
- 1 x SFP for optional fibre optical communication
- Up to 32Gbps Backplane bandwidth
- Supports 8K absolute MAC addresses entries
- Supports 340K Bytes RAM for data buffering
- Supports 9K bytes Jumbo frame
- Supports up to 8 ports and 8 groups port aggregation
- Support QoS for better communication quality
- Front-panel diagnostic LEDs

## Related Products



**GSW-1657**  
16-Port Gigabit Ethernet Switch



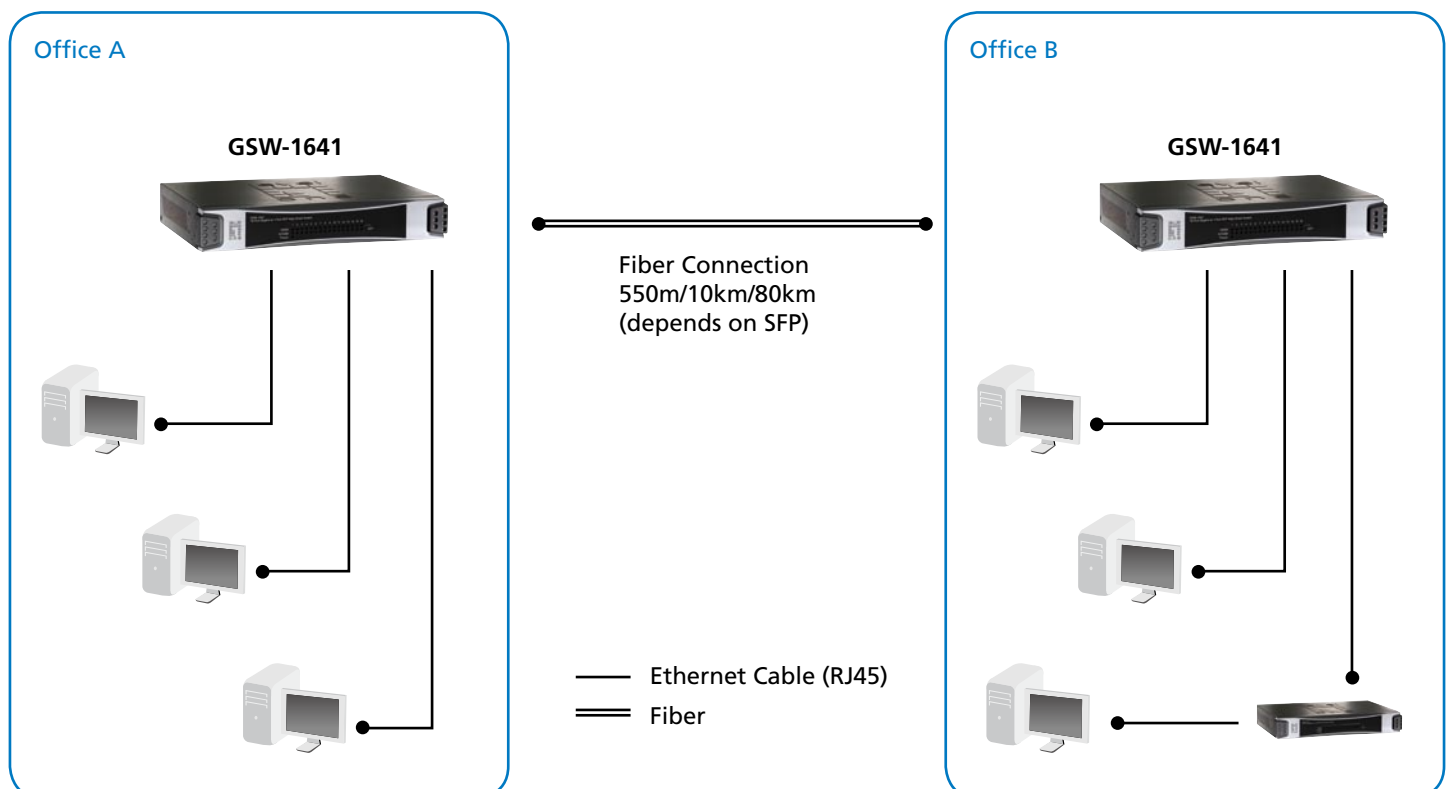
**GSW-2420**  
24-Port Gigabit Ethernet Switch

## Technical Specification

<p><b>Standard Compliance</b></p> <p><b>IEEE Standards Compatibility</b></p> <ul style="list-style-type: none"> <li>- IEEE 802.3 10Base-T Ethernet</li> <li>- IEEE 802.3u 100Base-TX</li> <li>- IEEE802.3ab 1000Base-T</li> <li>- IEEE802.3z Gigabit Fiber</li> <li>- IEEE802.3x Flow Control and Back Pressure</li> <li>- IEEE802.1p QoS</li> <li>- IEEE802.1Q VLAN Tag</li> </ul> <p><b>Hardware Specification</b></p> <p><b>Network Interface</b></p> <ul style="list-style-type: none"> <li>- 16 x 10/100/1000 Mbps RJ-45 Ports</li> <li>- 1 x SFP (shared with 16th Gigabit Port)</li> </ul> <p><b>LEDs</b></p> <ul style="list-style-type: none"> <li>- Per Device: Power</li> <li>- Per Port: 10/100M/1000M Link/Act(Green)</li> </ul> <p><b>Performance Specifications</b></p> <ul style="list-style-type: none"> <li>- Forwarding modes: Store-and-forward</li> <li>- Back-plane (Switching Fabric): 32Gbps</li> <li>- Packet buffer memory: 340K Bytes</li> <li>- Mac Address : 8K MAC address table</li> </ul> <p><b>Electrical Specifications</b></p> <ul style="list-style-type: none"> <li>- Power consumption: 14.4 Watts (Max)</li> <li>- Voltage: 100 ~ 240 VAC, 50-60 Hz</li> </ul> <p><b>Physical Specifications</b></p> <ul style="list-style-type: none"> <li>- Dimensions: (w x d x h) 270 x 187 x 43 mm</li> <li>- Weight: 1.39 kg</li> </ul> <p><b>Environmental Specifications</b></p> <ul style="list-style-type: none"> <li>- Operating temperature: 0° to 40°C</li> <li>- Operating humidity: 10%~90% (Noncondensing)</li> </ul> <p><b>EMI and Safety</b></p> <ul style="list-style-type: none"> <li>- CE</li> <li>- FCC Part 15 Class A</li> <li>- VCCI-A</li> </ul>
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<p><b>Software Specification</b></p> <p><b>VLAN</b></p> <ul style="list-style-type: none"> <li>- Tag VLAN (16 entries)</li> <li>- VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4094)</li> </ul> <p><b>Trunk</b></p> <ul style="list-style-type: none"> <li>- 8 Ports per Group / 8 Groups per Device</li> <li>- Static Trunk</li> </ul> <p><b>Quality of Service(QoS)</b></p> <ul style="list-style-type: none"> <li>- IEEE802.1p Priority Queues: 4 Queues</li> <li>- Port Based Priority (High/Medium/Normal/Low)</li> <li>- TOS</li> <li>- DSCP</li> </ul> <p><b>Bandwidth Control</b></p> <ul style="list-style-type: none"> <li>- Support ingress packet filter and egress packet limit</li> </ul> <p><b>Storm Control</b></p> <ul style="list-style-type: none"> <li>- Broadcast Storm Control</li> <li>- Multicast Storm Control</li> </ul> <p><b>Port Mirror</b></p> <ul style="list-style-type: none"> <li>- Support mirroring types: "TX RX both packet".</li> </ul> <p><b>SNMP</b></p> <ul style="list-style-type: none"> <li>- Support SNMP v1</li> <li>- RFC 1157</li> <li>- RFC 1155</li> <li>- RFC 1212</li> <li>- RFC 1213</li> </ul> <p><b>DHCP</b></p> <ul style="list-style-type: none"> <li>- Provide DHCP Client</li> </ul> <p><b>Firmware Update</b></p> <ul style="list-style-type: none"> <li>- Support firmware upgrade via Web</li> </ul> <p><b>MTBF</b></p> <ul style="list-style-type: none"> <li>- System MTBF: 404347</li> </ul>
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## Product Diagram



## Order Information

**GSW-1641:** 16-Port 10/100/1000Mbps w/ SFP Web Smart

## Package Content

GSW-2440  
CD Manual  
Power Cord  
Rack-mount Brackets  
Stackable kit

## Optional Accessories



### **GVT-0300**

Mini GBIC SFP transceiver,  
SX Multi-Mode (550m)



### **GVT-0301**

Mini GBIC SFP transceiver,  
LX Single-Mode (10km)



### **GVT-0302**

Mini GBIC SFP transceiver,  
ZX Single-Mode (80km)