



# 16-Port 10/100/1000Mbps w/ 4-Port SFP



GSW-1676

H/W Version: 1

## 16 Gigabit Port + 4 SFP Web Smart Switch

The LevelOne GSW-1676 is an intelligent Layer 2 Web Smart Switch with 16 10/100/1000 BASE-T ports with 4 shared SFP transceiver slots.

The switch contains 16 RJ-45 ports that operate at 10 Mbps or 100 Mbps, half or full duplex, or at 1000 Mbps, full duplex. All ports on the switch support automatic MDI/MDI-X operation and auto-negotiation, so the optimum transmission mode and data rate can be selected automatically.

## Collapsed Backbone

The GSW-1676 is an excellent choice for Gigabit Ethernet installations where significant growth is expected in the near future. In a basic stand-alone configuration, it can provide direct full-duplex connections for up to 16 workstations or servers.

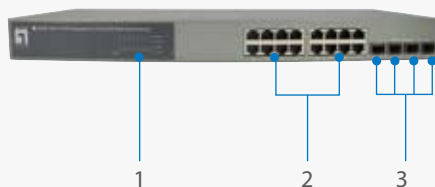
The server is easily expandable by adding direct full duplex connections to workstations or servers. Further expansion is possible by connecting hubs or switches.

## Remote Connections with Fiber Cable

Fiber optic technology allows for longer cabling than any other media type. A 1000BASE-SX (MMF) link can connect to a site up to 550 meters away, a 1000BASE-LX (SMF) link up to 80km. This allows a switch stack to serve as a collapsed backbone, providing direct connectivity for a widespread LAN.

## Network Management Options

The GSW-1676 contains a comprehensive array of LEDs for "at-a-glance" monitoring of network and port status. They also include a management agent that allows you to configure or monitor the switch using its embedded management software.



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

## Key Features

- 16 auto-MDI/MDI-X 10/100/1000Base-T ports
- 4 ports shared with 4 SFP transceiver slots
- Non-blocking switching architecture
- Layer 2/3/4 CoS support through four priority queues
- Full support for VLANs with GVRP
- IGMP multicast filtering and snooping
- Support for jumbo frames up to 9KB
- Manageable via Web

## Works Well With



GVT-0301  
Mini GBIC SFP transceiver, LX  
Single-Mode (10km)



GNC-0105T  
Gigabit Ethernet 32-bit PCI  
Card

## Technical Specifications

### Standard Compliance

#### IEEE Standards Compatibility

- IEEE 802.3/ IEEE 802.3u
- IEEE 802.3ab Gigabit 1000T
- IEEE 802.3z Gigabit Fiber
- IEEE 802.3x Flow Control and Back Pressure
- IEEE 802.1p QoS
- IEEE 802.1x User Authentication
- IEEE D802.1Q Virtual LAN

### Hardware Specification

#### Physical Interface

16x 10/100/1000Base-T, with auto-negotiation  
4x 10/100/1000Base-T shared with 4 SFP transceiver slots

#### LEDs

Per port 1000 M/ Link/Act  
Per device: Power

#### Performance Specifications

Forwarding modes: Store and forward  
Back-plane(Switching Fabric) : 32Gbps  
Packet buffer memory: 400K bytes  
Mac Address: 8K

#### Electrical Specifications

Power consumption: 28 Watts maximum  
Voltage:100~240 VAC, 50-60 Hz

#### Physical Specifications

19-inch Standare Rack-Mount Width  
Dimensions ( W x D x H) 440mm x 171mm x 44mm  
Weight:1.6kg

#### Environmental Specifications

Operating: 0°C ~40°C (32°F ~ 104°F)  
Storage: -40°C ~70°C (-40°F ~ 158°F)  
Operating humidity: 5% ~ 90% (Non-condensing)

#### EMI/EMC

CE  
FCC Part 15 Class A

### Software Specification

#### VLAN

Tag VLAN (255 entries)  
Support Q in Q  
VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4095.)

#### Trunk

8 Ports per group/8 groups per device  
Static Trunk

#### Quality of Service (QoS)

IEEE802.1p Priority Queues: 4 Queues  
Port Based Priority (low/normal/middle/high)  
DSCP

#### Bandwidth Control

Support ingress packet filter and engress packet limit

#### Storm Control

Broadcast Storm Control

#### Port Mirror

Support mirroring types="RX packet"

#### DHCP

DHCP Client

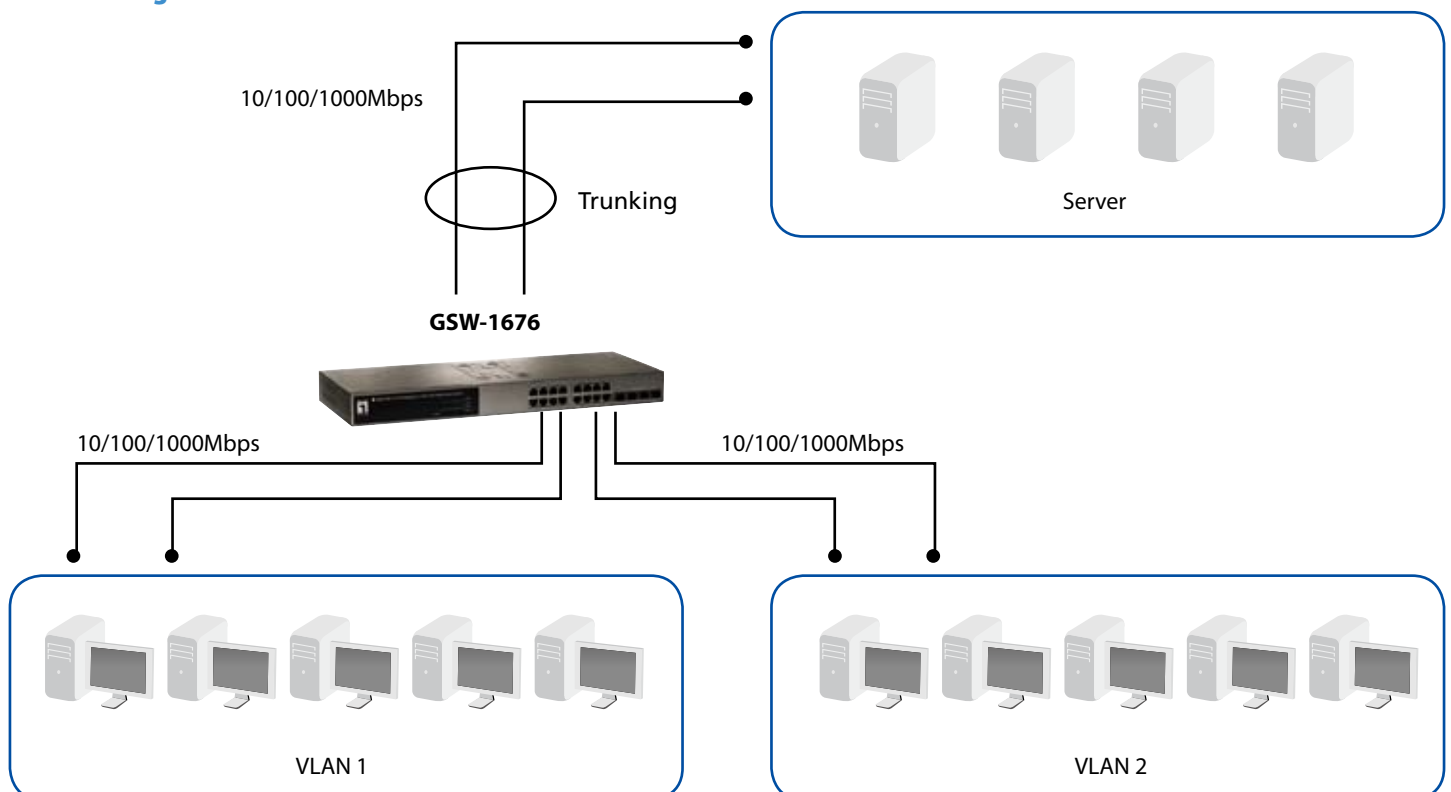
#### Firmware Update

WEB

#### MTBF

system MTBF:385193

## Product Diagram



## Order Information

**GSW-1676:** 16 G + 4 SFP Web Smart Switch

## Package Contents

GSW-1676  
Rack-mount brackets  
Power Cord  
CD User Guide

## 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)