

8-Port TP + 16-Port SFP Gigabit L2 SNMP Switch

Product Overview

The GSW-2496 is a feature rich 24-port Gigabit L2 Managed Switch is a high performance platform network switch designed for mission critical network environments to accommodate high bandwidth applications and is suitable for both metro-LAN and office applications. It also provides flexible network connectivity for both copper and fiber optic connections, is virtual stackable with up to 16 network switches and features comprehensive and powerful management functions.

Flexible Network Connectivity

The 24-ports of the GSW-2496 are made up of 8 10/100/1000Mbps Auto-negotiation Gigabit Ethernet TP ports and 16 1000Mbps SFP fiber ports, combining copper and fiber optic connectivity within one device. The 16 SFP fiber ports allow for optional SFP modules with a variety of network connection choices. Optional modules are used for high-speed network connection expansion.

Network Management

The GSW-2496 SNMP network switch can be managed through a built-in RS-232 serial port or through an Ethernet port using CLI or the Web-based user interface. Through the SNMP agent management, the network administrator can configure and control each port's activity as well as manage the network switch to accommodate high bandwidth applications.

Network Functions

The GSW-2496 network switch also features a comprehensive range of network functions such as QoS (Quality of Service), Spanning Tree, VLAN, Port Trunking, Bandwidth Control, Port Security, SNMP/RMON, IGMP Snooping capability and Illegal Access Report via its intelligent software.

QoS: Supports IEEE 802.1P Quality of Service with two priority queue and packet transmission schedules.

Spanning Tree: Supports IEEE 802.1D, IEEE 802.1w (RSTP: Rapid Spanning Tree Protocol) standards.

VLAN: Supports Q-in-Q VLAN, Port-based VLAN and IEEE802.1Q Tag VLAN. Support 256 active VLANs and VLAN ID 1~4094.

Port Trunking: Supports static port trunking and port trunking with IEEE 802.3ad LACP.

Bandwidth Control: Supports ingress and egress per port bandwidth control.

Port Security: Supports IEEE802.1X port-based network access control, allowed, denied forwarding and port security with MAC address.

SNMP/RMON: SNMP agent and RMON MIB. In the device, SNMP agent is client software which operates over SNMP protocol to receive commands from the SNMP manager and echo corresponding data.

This network switch supports RMON (Remote Network Monitoring) MIB-2 (RFC 1213), Bridge MIB (RFC 1493), RMON MIB (RFC 1757)-statistics Group 1,2,3,9, VLAN MIB (802.1Q, RFC2674) and Ethernet MIB (RFC 1643).

IGMP Snooping: Support IGMP version 2 (RFC 2236)



GSW-2496

Key Features

- High performance L2 SNMP network switch for mission-critical network environments
- Combines copper and fiber network for flexible network connectivity within one device
- Virtual stacking capability with up to 16 devices
- Features comprehensive and powerful network management functions
- Supports DHCP Broadcasting Suppression
- Supports port mirroring, rapid spanning tree (802.1w RSTP) and 802.1X port security on a VLAN
- Supports IEEE802.1Q VLAN and programmable IEEE 802.1P QoS
- Provides Full-duplex flow control (IEEE802.3x) and half-duplex backpressure
- Network modules are hot swappable
- Features a built-in Web-based as well as CLI management user-interface

Technical Specification

Standard compliance

- IEEE 802.3x Flow Control capability
- IEEE 802.1q VLAN
- IEEE 802.1p
- RoHS Compliance

Performance

Switching capacity

- 24 Gigabit Ethernet ports with non-blocking wire speed performance
- 8 K MAC addresses and 4K VLAN support (IEEE802.1Q)
- 400KB on-chip frame buffer.
- Supports 9K Jumbo frame
- Broadcast/Multicast Storm Suppression
- Port Mirroring

VLAN

- Port-base VLAN
- IEEE802.1q tag-base VLAN, up to 256 active VLANs
- Q-in-Q is an efficient method for enabling Subscriber Aggregation.

VSM(Virtual Stacking Management)

- Support 16 devices stacking
- Multiple switches can be managed via one IP address, just like software stacking
- Low cost and easily to establish network environment, not extra hardware require.
- Not center on the physical location of wiring closets

Qos

- Supports Layer 4 TCP/UDP Port and ToS Classification
- Supports 802.1p QoS with two level priority queue
- Supports priority in a Q-in-Q tag

Bandwidth Control

- Supports Ingress, Non-unicast and Egress Bandwidth rating management with a resolution of 1Mbps

Protocol

LACP

- Port trunking with 8 trunking group
- Up to 12 ports for each group

GVRP/GARP

- 802.1q with GVRP/ GARP

Multicasting

- Supports IGMP snooping including active and passive mode

STP/RSTP

- 802.1d/1w

Network Security

- 802.1x access control
- Management Access Policy Control

SNMP v.1, v.2c Network Management

- RFC 1213 MIB (MIB-II)

Interface MIB

- Address Translation MIB
- IP MIB
- ICMP MIB
- TCP MIB
- UDP MIB
- SNMP MIB: RFC 1757 RMON MIB
- Statistics Group 1
- History Group 2
- Alarm Group 3
- Event Group 9: RFC 1493 Bridge MIB
RFC 1643 Ethernet MIB
Enterprise MIB

Hardware Specifications

Power Input

100~240 VAC, AC Line
Frequency 50~60 Hz

Power Consumption

30W

Dimensions

44(H) x 442(W) x 209(D) mm

Weight

3kg

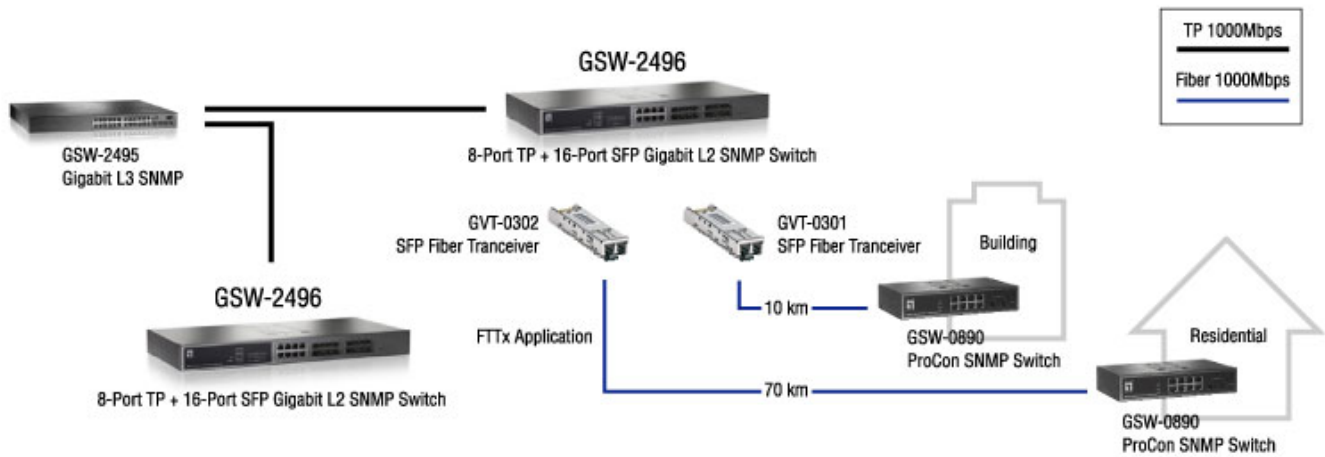
Operating Temperature/Humidity

0°C to 40°C
5% to 90%

Safety

FCC Part 15 Class A &
CE Mark Approval

Product Diagram



Ordering Information

GSW-2496 8-Port TP + 16-Port SFP Gigabit L2 SNMP Switch

Optional Modules

GVT-0300 (H/W ver. 3.0)	1000Mbps LC, MM, SFP Fiber transceiver
GVT-0301 (H/W ver. 3.0)	1000Mbps LC, SM 10km, SFP Fiber transceiver
GVT-0302 (H/W ver. 3.0)	1000Mbps LC, SM 70km, SFP Fiber transceiver

Please Note:

Only LevelOne, Avago Technologies and Finisar Corporation Fiber Modules are compatible with the GSW-2496 Network Switch

For more information, please contact your LevelOne representative, or visit our website
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