


GS-1148L
GS-1148L: 48-Port GbE Web Smart Switch with 4 SFP Dual Media
Key Features

- QoS with Four Priority Queues
- Enhancing Security, Traffic Flow Classification, and Priority by Powerful ACL rule
- Port Mirroring
- VLAN for Performance & Security
- Port Trunk for Bandwidth Aggregation
- Trap Event for Exception Management
- 4 Dual Media Ports for Flexible Fiber Connection
- Build-in Web-based Management

Overview

The 48-port Gigabit Web-Smart Switch is a highly integrated and fully featured Layer 2 Ethernet bridge with integrated MACs, packet buffers, and address tables. And it provides service layer ACL to expand your network security or prioritize the traffic flow priority. Configuration of the switch is secured via HTTPS for Web access and SSH for Telnet access. Through 802.1x security and RADIUS authentication, the supervisors can specify whether the users are allowed for accessing the secured network.

In addition, the switch features comprehensive and useful functions, such as QoS (Quality of Service), Spanning Tree, VLAN, Port Trunking, Bandwidth Control, and Port Security capability via the intelligent software. It is suitable for both metro-LAN and office application. In this switch, Port 45~48 include two types of media --- TP and SFP Fiber (LC, BiDi LC...); these ports support 10/100/1000Mbps TP or 1000Mbps SFP Fiber with auto-detected function. And 1000Mbps SFP Fiber transceiver is for high-speed connection expansion.

Technical Specifications
• Standard compliance

- IEEE 802.3 10Base-T Ethernet (twisted-pair copper)
- IEEE 802.3u 100Base-T Ethernet (twisted-pair copper)
- IEEE 802.3ab 1000Base-T Ethernet (twisted-pair copper)
- IEEE 802.3z 1000Base-X Ethernet
- IEEE 802.3x flow control capability
- ANSI/IEEE 802.3 auto-negotiation
- IEEE 802.1q VLAN

• RoHS Compliance
• Subscriber Interface

- 48 Gigabit Ethernet ports
- Auto-negotiation
- Auto-MDIX
- Backpressure flow control for half duplex.
- 802.3x flow control for full duplex.
- Port 45 to 48 are TP/SFP Fiber auto sense
- Connector: 44 RJ-45 plus 4 TP/SFP module

• Performance
Switching capacity:

- 48Gbps forwarding bandwidth for switch, non-blocking switch fabric and wire speed performance
- 8 K MAC addresses
- 768 KB on-chip frame buffer
- Support Jumbo frame up to 16K

VLAN

- Port-based VLAN
- IEEE 802.1q tag-based VLAN, 4094 max.

QoS

- Support packet classification by each port or vlan ACL rule
- Support four level priority queues by Ethernet type, vlan tag, IP, UDP, TCP and flow.

Bandwidth Control

- Support bandwidth rating that includes per port ingress and egress rate, and the rate is 1% of the port speed.

Port Trunk

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

Broadcast Storm

- Broadcast Storm suppression

Port Mirroring

- Port mirroring for all ports

• LED Description

	LED
Global	PWR
Global	CPU
Port 1-48	Link/Act
Port 1-48	Speed
Port 45-48	SFP

• Network Interface

	Configuration	ConnectorPort
10/100/1000Mbps TP Jack (RJ-45)	TP(RJ-45)	1 to 44
10/100/1000Mbps TP Jack (RJ-45) or 1000Mbps SFP Fiber Module Dual Media Auto Detection	TP(RJ-45) or SFP(LC/BiDi-LC)	45 to 48

• Network Interface

Feature	Detailed Description
Voltage	100~240 VAC
Frequency	50~60 Hz
Consumption	72W
Ambient Temperature	0 to 40 °C
Humidity	5% to 90%
Dimensions	44(H) x 442(W) x 248.6(D) mm
Weight	3.4kg
Safety	Comply with FCC Part 15 Class A & CE Mark Approval

Packing Information

Carton Dimensions (mm)	pcs/Carton	N.W (KG)	G.W (KG)
515x345x391	3	13.8	15

Ordering Information

Model Numbers	
GS-1148L	48-Port GbE Web Smart Switch with 4 SFP Dual Media