



## GS-1116C: 16-Port Web-Smart Gigabit Ethernet Switch with 2 SFP Dual Media

### Key Features

- **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
- **Subscriber Interface**
  - 16 Gigabit Ethernet ports.
  - Auto-negotiation
  - Auto-MDIX
  - Backpressure flow control for half duplex.
  - Flow control for full duplex.
  - Port 15,16 are TP/SFP Fiber auto sense
  - Connector: 16 RJ-45 and 2 SFP module
- **Performance**
  - Switching capacity:**
    - 16 Gigabit Ethernet ports with non-blocking wire-speed performance.
    - 8 K MAC addresses
    - 272KB on-chip frame buffer.
    - Jumbo frame support.
  - VLAN**
    - Port-base VLAN
    - IEEE802.1q tag-base VLAN, 4094 Max
  - Qos**
    - Supports Layer 4 TCP/UDP Port and ToS Classification
    - Supports 802.1p QoS with two level priority queue
  - Bandwidth Control**
    - Supports bandwidth rating per port ingress and egress rate limit 1000 Mbps with 1Mbps
  - Port Trunk**
    - Port trunking with 8 trunking group
    - up to 8 ports for each group.
  - Broadcast Storm**
    - Broadcast Storm suppression.
  - Port Mirroring**
    - All port support port mirroring.

### Benefits

- **QoS support layer 4 classification**

The switch supports not only Layer 2 802.1p Priority Queue control, but also supports programmable higher layer classification and prioritization to enable enhanced Quality of Service (Qos) support for real time applications base on information taken from Layer 2 to Layer 4, such as VoIP.
- **Port Mirroring**

Port mirroring copies traffic from a specific port to a target port. This mechanism helps track network errors or abnormal packet transmission without interrupting the flow of data.
- **VLAN for performance & security**

The VLAN feature in the switch offers the benefits of both security and performance. VLAN is used to isolate traffic between different users and thus provides better security. Limiting the broadcast traffic to within the same VLAN broadcast domain also enhances performance.
- **Port Trunk for Bandwidth Aggregation**

The Gigabit ports can be combined together to create a multi-link load-sharing trunk. Up to 8 Gigabit ports can be set up per trunk. The switch supports up to 8 trunking groups. Port trunks are useful for switch-to-switch cascading, providing very high full-duplex speeds.
- **Trap Event for Exception Management**

We use SNMP Trap mechanism to inform supervisor to know the instant abnormal status of the switch.
- **2 Dual Media for Flexible Fiber Connection**

15, 16 dual media port are provided for flexible fiber connection. You can select to install optional transceiver modules in these slots for short, medium or long distance fiber backbone attachment. Use of the SFP will disable their corresponding built-in 10/100/1000Base-T connections.
- **Build-in web-base management**

Instead of using CLI interface, we provide a more convenient GUI for user. We just need to configure switch via Web Browser. It is more quickly for user to familiar the method to control switch on the basis of this design.

## Overview

The Switch is a cost-effective web smart switch that meets all IEEE 802.3/u/x/z Gigabit, Fast Ethernet specifications. It is equipped with 14 10/100/1000Base-T ports and 2 dual media ports that accommodate optional 10/100/1000Base-T or SFP modules. The switch can be managed through Ethernet port using Web browser, the network administrator can logon the switch to monitor, configure and control each port's activity. In addition, the switch implements the QoS (Quality of Service), Port Mirror, VLAN, Port Trunk. It is suitable for office application.

## Technical Specifications

### • LED Description

	LED	Color	Function
Global	POWER	Green	-Lit when +5V power is coming up
Global	CPU ACT	Green	-Blinks when CPU is activity
Port 1-16	LINK/ACT	Green	-Lit when connection with remote device is good -Blinks when any traffic is present
Port 1-16	1000/100 Mbps	Green /Amber	-Lit Green when TP link on 1000Mbps speed -Lit Amber when TP link on 100Mbps speed -Off when 10Mbps or no link occur
Port 15,16	SFP	Green	- Lit when SFP connection with remote device is good -Blinks when any traffic is present

### • Hardware Spec

Feature	Detailed Description
Voltage	100~240 V
Frequency	50~60 Hz
Consumption	30W
Ambient Temperature	0 to 50 °C
Humidity	5% to 90%
Dimensions	44(H) x 442(W) x 209(D) mm
Safety	Comply with FCC Part 15 Class A & CE Mark Approval