



PSGS-1112C: 12-Port PoE Web-Smart Gigabit Ethernet Switch with 2 SFP Dual Media

Key Features

- PoE Save Your Power Infrastructure Cost
- 2 Dual Media for Flexible Fiber Connection
- QoS support layer 4 classification
- VLAN for performance & security
- Port Trunk for Bandwidth Aggregation
- Trap Event for Exception Management

Overview

PSGS-1112C supports 12 10/100/1000Mbps Auto-negotiation, Auto-MDIX Ethernet ports and Power over Ethernet to IEEE 802.3af compliant devices. It's fully compliant with the standards of IEEE 802.3/u/x/z/ab/af. With web-based management, the network administrator can logon the switch to monitor, and configure. In addition, PSGS-1112C abounds with functions, including Jumbo frame, QoS (Quality of Service), port-based VLAN & Link Aggregation capability via the smart software. The overall network management is enhanced and the network efficiency is also improved to accommodate high bandwidth applications with security..

Benefits

- **PoE Save Your Power Infrastructure Cost**
PoE allows power to be supplied to end devices, such as Wireless Access Points or VoIP Phones, directly through the existing LAN cables. By supplying the power mid-span, you can centralize power distribution and backup without the need to increase infrastructure.
- **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 6 Gigabit ports can be set up per trunk. The switch supports up to 6 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**
11, 12 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.

Technical Specifications

• Standard compliance

- IEEE 802.3af PoE Standard
- 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 802.1p Priority Tag
- IEEE 802.1q VLAN
- IEEE 802.1p Class of Service
- IEEE 802.3af Power over Ethernet
- IEEE 802.3ad Port trunk with LACP

• Subscriber Interface

- 12 Gigabit Ethernet ports.
- Auto-negotiation
- Auto-MDIX
- Back pressure flow control for half duplex.
- Flow control for full duplex.
- Port 11, 12 are TP/SFP Fiber auto sense
- Connector: 12 RJ-45 and 2 SFP module

• Performance

Switching capacity:

- 12 Gigabit Ethernet ports with non-blocking wire speed performance.
- 8 K MAC addresses
- 208KB on-chip frame buffer.
- Jumbo frame support.

VLAN

- Port-base VLAN
- IEEE 802.1q 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 1000Mbps with 1Mbps

Port Trunk

- Port trunking with 6 trunking group
- up to 6 ports for each group.

Broadcast/Multicast Storm

- Broadcast Storm control

Port Mirroring

- All port support port mirroring.

PoE Features

- Supports IEEE 802.3af compliant
- Supports Power over Ethernet (PSE) on each Gigabit UTP port
- Full power support for per POE port
- Auto detect powered device and consumption levels
- Supports per port power consumption monitoring
- Smart feature for PD on/off, PD detection, power level, PD status and power feeding priority
- Circuit protection to prevent power interference between ports
- Supports per port PoE State setting
- Supports per port power priority setting
- LED indicators for POE ready and POE activity

• LED Description

	LED	Color	Function
Global	POWER	Green	-Lit when +5V power is coming up
Global	CPUACT	Green	-Blinks when CPU is activity
Port 1-12	LINK/ACT	Green	-Lit when connection with remote device is good -Blinks when any traffic is present
Port 1-12	1000/100Mbps	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 11,12	SFP	Green	-Lit when SFP connection with remote device is good -Blinks when any traffic is present

• Hardware Spec

Feature	Detailed Description
Power Supply	100~240 V, 50~60 Hz, 205W or 155W
Total Power for PoE	185W or 130W
Ambient Temperature	0 to 40°C
Humidity	5% to 90%
Dimensions	44(H) x 442(W) x 209(D) mm
Weight	2.8kg
Safety	Comply with FCC Part 15 Class A & CE Mark Approval

Packing Information

Carton Dimensions (mm)	pcs/Carton	N.W (KG)	G.W (KG)
530x512x345	5	18.5	19.5

Ordering Information

PSGS-1112CF	12-Port Web-Smart PoE Gigabit Ethernet Switch with 2 SFP Dual Media Ports(185W)
PSGS-1112C	12-Port Web-Smart PoE Gigabit Ethernet Switch with 2 SFP Dual Media Ports(130W)

Optional SFP Module

SFP.LC	1000Base-SX GE SFP Fiber Module, LC Multi-Mode 850nm
SFP.LC.M2	1000Base-SX GE SFP Fiber Module, LC Multi-Mode 1310nm 2km
SFP.LC.S10	1000Base-LX GE SFP Single-Mode 10Km Fiber Module 1310nm
SFP.LC.S30	1000Base-LX GE SFP Single-Mode 30Km Fiber Module 1310nm
SFP.L5.S50	1000Base-LX GE SFP Single-Mode 50Km Fiber Module 1550nm
SFP.BL5.S10	1000Base-LX GE SFP BiDi_LC 10Km Module Single Fiber 1550nm, Type 1
SFP.BL3.S10	1000Base-LX GE SFP BiDi_LC 10Km Module Single Fiber 1310nm, Type 2
SFP.BL5.S20	1000Base-LX GE SFP BiDi_LC 20Km Module Single Fiber 1550nm, Type 1
SFP.BL3.S20	1000Base-LX GE SFP BiDi_LC 20Km Module Single Fiber 1310nm, Type 2

Note:

We recommend the SFP transceiver from the following vendors:

1. Ruby Tech Corporation
2. Agilent Technologies
3. AVAGO Technologies
4. Finisar Corporation

Ruby Tech Corp.

3F, No.1, Lane 50, Nan Kang Road, Sec.3, Taipei, Taiwan
 TEL:886-2-2785-3961 FAX:886-2-2786-3012

<http://www.rubytech.com.tw>
 E-mail : rubytech@mail.rubytech.com.tw