



**PSGS-1309:** 8-Port 10/100/1000Base-T + 1-Port (100M/1G)SFP Web Smart 8-Port PoE Switch

### Key Features

- Web smart features provide easier manageability, security, QoS, and performance
- Supports SNMPv1/v2c for management
- Supports Loop detection for maintenance
- Supports PoE Port configuration and scheduling
- Supports 802.3at high power PoE plus standard
- Supports (IEEE802.3az EEE Energy Efficient Ethernet standard) for green Ethernet application
- Provides reset button for recovery and maintenance

### Overview

The PSGS-1309, the next generation web smart managed switch, from Rubytech, provides a reliable infrastructure for your business network. This switch delivers more easy-to-use features you need to manage your business network, protects your sensitive information, and optimizes your network bandwidth to deliver information and applications more effectively. With PoE (Power over Ethernet) function built in, it provides the ideal combination of affordability and capabilities for entry level networking of a small business or a branch office of an enterprise which demands IP Phone, IP Camera or Wireless applications, thus helps you to create an efficient, flexible and easier-connected workforce.

### Applications

Whether you want to easily implement a network to connect all clients' computers or an application to deliver data, voice, and video services, the PSGS-1309 provides a solution to fit your requirements. Possible implementation scenarios include:

- **PC or laptop connectivity with suitable security and qualified performance:**

The PSGS-1309 switch can easily and securely connect clients' PC or laptop in offices with all of the servers, printers, and other networking devices they use. Qualified performance and reliable connectivity will help to speed file transfers and data processing, keep the clients connected and productive.

- **Implement Green Ethernet environment:**

The PSGS-1309 switch provides IEEE802.3az EEE for low power consumption and high efficient requirement. It can build a green Ethernet networking environment for customers.

- **Unified communications with open standards:**

With PoE function built in and advanced web-smart management features, the PSGS-1309 is ideal to connect, power and manage IP devices, such as IP phone, IP surveillance and wireless AP, over a single network.

### Benefits

The PSGS-1309 provides security, performance, quality of services, central management and other network control capabilities. Optimized and customized design and affordable pricing, it best fit for SMB or entry-level enterprise solution. It provides:

- **Qualify performance and reliability:**

The PSGS-1309 passed the rigorously testing to deliver excellent performance. As a managed switching solution, it also provides the flexibility to manage and prioritize suitable-bandwidth traffic such as voice, video and data requirement.

- **Easy, simple deployment and configuration:**

The device managers software provides an intuitive, web-based interface to simplify deployment, suitable security (Port Security), and quality of service (QoS) traffic prioritization.

- **Remote management:**

Using Simple Network Management Protocol (SNMPv1/v2c), you can configure and manage PSGS-1309 and other Rubytech switches in the network remotely, instead of having to directly connect to them.

- **Energy efficiency:**

PSGS-1309 is designed to comply with IEEE802.3az, energy efficient Ethernet protocol, reducing energy costs without compromising performance. Power-saving features include:

---The latest application-specific integrated circuits (ASICs), using low-power technology, allow for lower power consumption and thinner, more efficient designs.

---Embedded intelligence to adjust signal strength based on cable length

• **Fast, easy maintenance:**

The PSGS-1309 provides Loop Detection function; it can easily detect the looping occurred. Provide easy maintenance method and solve network failure issue.

• **Expansion ports:**

Featuring 8 Gigabit UTP ports, the PSGS-1309 also offers one SFP ports for uplinks to Fast Ethernet or Gigabit Ethernet fiber optic networks.

• **Power over Ethernet:**

PSGS-1309 also offers IEEE 802.3at for Power over Ethernet requirement. It can provide up to 30W per port power requirement.

**Product Specifications**

Feature	Description		
<b>Performance</b>			
Switching capacity and forwarding rate	Model Name	Capacity in Millions of Packets per Second (mpps) (64-byte packets)	Switching Capacity in Gigabits per Second (Gbps)
	PSGS-1309	13.39	18
<b>General</b>			
Jumbo frames	Frame sizes up to 9KB supported on Gigabit interfaces		
MAC Table	Up to 8K MAC addresses.		
<b>Layer 2 Switching</b>			
Trunking	Static trunk (Link Aggregation) <ul style="list-style-type: none"> <li>• Up to 4 groups</li> <li>• Up to 9 ports per group</li> </ul>		
Spanning Tree Protocol (STP)	Standard Spanning Tree 802.1d Rapid Spanning Tree (RSTP) 802.1w		
VLAN	Supports up to 16 VLANs simultaneously (out of 4096 VLAN IDs) <ul style="list-style-type: none"> <li>• 802.1Q tag-based VLAN</li> <li>• Port-based VLAN</li> <li>• Port Isolation</li> <li>• Management VLAN</li> </ul>		
IGMP v1/v2 snooping	IGMP v1/v2 limits bandwidth-intensive multicast traffic to only the requesters. Supports 64 multicast groups (source-specific multicasting is also supported)		
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) can be mirrored to single destination port. A single session is supported.		
Loop detection	Support the loop detection for easy maintenance method to solve network failure problem		
Broadcast Storm Protection	Prevents traffic on a LAN from being disrupted by a broadcast storm on a port		
<b>Quality of Service</b>			
Hardware Priority Queue	Support 8 hardware queues		
Scheduling	Strict priority Queue assignment based on DSCP and class of service (802.1p/ CoS)		
Classification	Port based; 802.1p VLAN priority based; DSCP based; Differentiated Services (DiffServ)		
<b>Management</b>			
Web GUI interface	Built-in switch configuration utility for browser-based device configuration (HTTP). Supports configuration, system dashboard, maintenance, and monitoring		
Dual Image	Dual image provides independent primary and secondary OS files for backup while upgrading		
SNMP	SNMP version 1, 2c with support for traps		
Reset Button	Provides device reboot and reset to default for recovery and maintenance		

Feature	Description					
<b>Power over Ethernet (PoE)</b>						
IEEE 802.3at PoE delivered over each of the RJ-45 ports within the listed power budgets	<b>Model Name</b>	<b>IEEE 802.3at</b>	<b>IEEE 802.3af</b>	<b>Power Dedicated to PoE</b>		
	PSGS-1309	Port 1-8	Port 1-8	65W/130W (Optional)		
<b>PoE Port configuration</b>	Supports per Port configure the PoE function					
<b>PoE Scheduling</b>	Supports per Port PoE scheduling to turn on/off the PoE					
<b>Interface</b>						
<b>Ports</b>	<b>Model Name</b>	<b>Total System Ports</b>	<b>RJ-45 Ports</b>	<b>UTP/(100/1G) SFP Combo</b>	<b>100/1G) SFP</b>	<b>(1G/10G) SFP+</b>
	PSGS-1309	9 GbE	8GbE	--	1	--
<b>Environmental (preliminary)</b>						
<b>Dimensions</b>	PSGS-1309.065: 220 (W)x44 (H) x 130.5 (D) mm					
	PSGS-1309.130: 280 (W)x 44 (H) x 166 (D)mm					
<b>Weight</b>	Kg					
<b>Power</b>	100-240 VAC 50~60 Hz, internal , universal					
<b>Certification</b>	CE Mark, FCC Part 15 Class A					
<b>Operating temperature</b>	0 to 40°C					
<b>Storage temperature</b>	-20°C to 70°C					
<b>Operating humidity</b>	10% to 90% , relative, noncondensing					

**Package Contents**

- Switch
- Power Cord
- Mounting Kit (Option)
- Console Cable
- CD-ROM with user manual documentation (PDF) included
- QIG (Quick Install Guide)

**Minimum Requirements**

- Web browser: Mozilla Firefox version 2.5 or later, Microsoft Internet Explorer version 6 or later
- Category 5 Ethernet network cable
- TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in network

**Ordering Information**

Model Name	Description
PSGS-1309	8-Port 10/100/1000Base-T+1-Port (100M/1G) SFP Web Smart 8-Port PoE Switch

**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](mailto:rubytech@mail.rubytech.com.tw)