ECO Smart Series

PSGS-1310

PSGS-1310: 8-Port 10/100/1000Base-T(PoE) + 2-Port (100M/1G SFP) PoE Web Smart Switch

Key Features

- Web smart features provide easier manageability, security, QoS, and performance
- Supports IEEE 802.1AB LLDP for management
- 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 recover and maintenance

Overview

The PSGS-1310, 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-1310 provides a solution to fit your requirements. Possible implementation scenarios include:

- **PC or laptop connectivity with suitable security and qualified performance:**
  The PSGS-1310 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-1310 switch provides IEEE802.3az EEE for low power consumption and high efficient requirement. It can use for customer build a green Ethernet networking environment
- **Unified communications with open standards:**
  With PoE function built in and advanced web-smart management features, the PSGS-1310 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-1310 provides security, performance, quality of services, central management, PoE 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-1310 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 manager 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) and IEEE802.1AB LLDP, you can configure and manage PSGS-1310 and other Rubytech switches in the network remotely, instead of having to directly connect to them.
- **Energy efficiency:**
  PSGS-1310 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-1310 provides Loop Detection function; it can easy to detect the looping occurred. Provide easy maintenance method and solve network failure issue.

- **Expansion ports:**

  Featuring 8 Gigabit UTP ports, the PSGS-1310 also offers two SFP ports for uplinks to Fast Ethernet or Gigabit Ethernet fiber optic networks.

- **Power over Ethernet:**

  PSGS-1310 also offers IEEE 802.3at for Power over Ethernet requirement. It can provide up to 30W per port power requirement.

Product Specifications

Feature	Description		
Performance			
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-1310	14.88	20
Layer 2 Switching			
Trunking	Static trunk (Link Aggregation) • Up to 5 groups • Up to 10 ports per group		
Spanning Tree Protocol (STP)	Standard Spanning Tree 802.1d Rapid Spanning Tree (RSTP) 802.1w		
VLAN	Support up to 10 VLANs simultaneously (out of 4096 VLAN IDs) • 802.1Q tag-based VLAN • Management VLAN		
Generic VLAN Registration (GVRP)	Protocols for automatically propagating and configuring VLANs in a bridged domain		
IGMP v1/v2 snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters. Supports 64 multicast groups (source-specific multicasting is also supported)		
Quality of Service			
Hardware Priority Queue	Supports 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; IPv4/IPv6 precedence/ type of service (ToS) / DSCP based; Differentiated Services (DiffServ); classification and re-marking ACLs, trusted QoS		
Management			
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		
Loop detection	Support the loop detection for easy maintenance method to solve network failure problem.		
Reset Button	Provide device reboot and reset to default for recover and Maintenance		
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.		
General			
Jumbo frames	Frame sizes up to 9KB supported on Gigabit interfaces		
MAC Table	Up to 8K MAC addresses.		
Discovery			
Link Layer Discovery Protocol (LLDP) (IEEE802.1AB)	Used by network devices for advertising their identities, capabilities, and neighbors on a IEEE 802 local area network, principally wired Ethernet.		

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Feature	Description			
Power over Ethernet (PoE)				
IEEE 802.3at PoE delivered over each of the RJ-45 ports within the listed power budgets	**Model Name**	**IEEE 802.3at**	**IEEE 802.3af**	**Power Dedicated to PoE**
	PSGS-1310	Port 1-8	Port 1-8	65W/130W (Optional)
PoE Port configuration	Supports per Port configure the PoE function			
PoE Scheduling	Supports per Port PoE scheduling to turn on/off the PoE			
Interface				

Ports	Model Name	Total System Ports	RJ-45 Ports	UTP (100/1G) SFP Combo	(100/1G) SFP	(1G/10G) SFP+
	PSGS-1310	10 GbE	8 GbE	--	2	--

Environmental (preliminary)	
Dimensions	**PSGS-1310(65W):** 220(W) x44 (H) x 130.5(D) mm **PSGS-1310(130W):** 280(W) x44 (H) x 166(D) mm
Weight (kg)	Kg
Power	100-240 VAC 50~60 Hz, internal , universal
Certification	CE Mark, FCC Part 15 Class A
Operating temperature	0 to 40 ℃
Storage temperature	-20℃ to 70℃
Operating humidity	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-1310	8-Port 10/100/1000BASE-T+2-Port (100M/1G SFP) PoE Web Smart Switch