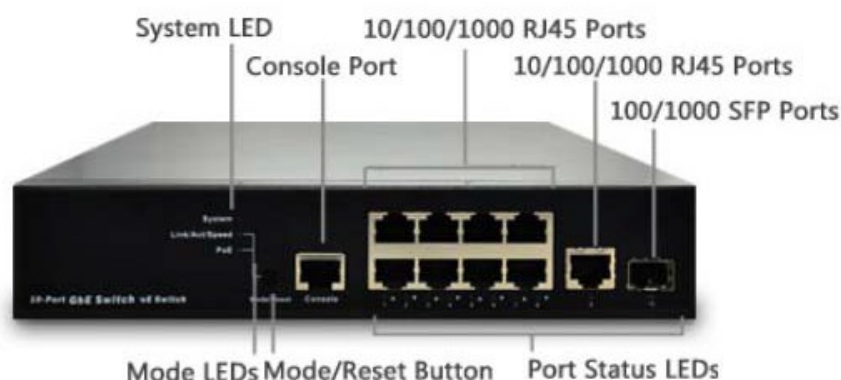# PSGS-2610F L2+ Managed GbE PoE Switch

Overview

PSGS 2610F L2 + 管理 PoE + スイッチ L2 機能より良い PoE 機能と利便性の向上より良いコスト パフォーマンスと繊維または銅線接続を経由して企業ネットワークの所有権の総コストを提供する静的ルートなど高度な L3 機能の完全なスイートを提供する次世代のイーサネット スイッチです。

PSGS 2610F 提供 8 PoE + 9 (10 M/100 M/1 G) RJ45 (802.3 at のサポート/af と 130 wまで合計) ポート、1 GbE SFP ポート、RJ45 コンソール ポート。PSGS 2610F は、中小企業や企業の高いハードウェア性能と環境の柔軟性を提供します。

PSGS 2610F は、管理の簡素化、最適なユーザー エクスペリエンス、および所有権の総コストを提供する最適です。

Key Features

- L2 + 管理機能は、管理しやすく、堅牢なセキュリティ、QoS を提供します。
- DHCP サーバー
- L3 IPv4/IPv6 静的ルート
- PoE ポートの構成とスケジュール設定
- 802.3 at の高電力 PoE プラス標準
- IEEE 802.3az グリーン イーサネット用の最も幅の広いエネルギー効率的なイーサネット標準

Benefits

- エンタープライズ・クラスの多機能イーサネット スイッチ　スイッチは L2 + 管理スイッチ レイヤー 3 静的ルート、DHCP サーバー、LLDP、IPv6 サポートなどの高度な機能を提供等。IP ソース ガードや ACL、ネットワークを不正なアクセスから保護するなど包括的なセキュリティ機能があります。

- それは L2 + 管理 GbE PoE スイッチ市場トップの価格/パフォーマンスを構築し、安全・安心を提供するユーザーと企業/中小企業向けの展開の使いやすさを助けます。

- 総所有コスト (tco) エネルギー効率の高い設計　エネルギーの効率的なイーサネット (IEEE 802.3az) 機能によって消費電力を削減し、tco の削減、顧客を支援するものです。それは、グリーン イーサネット ネットワーク環境を構築する顧客のため使用できます。

- イーサネット管理を高度な電源　モデルには、PoE + 電源スケジュールと PoE 構成のような省電力機能を備えた電力 IP デバイスのオプションが含まれています。

Specifications

Port Configuration

Total Ports	RJ45 (10M/100M/1G)	Uplinks (100M/1G)	Console
10	9	1 SFP	RJ45

Hardware Performance

Forwarding Capacity	Switching Capacity	Mac Table	Jumbo Frames
14.88 Mpps	20 Gbps	8 K	9216 Bytes

Environmental Range

Operating Temperature		Storage Temperature		Altitude	
Fahrenheit	Centigrade	Fahrenheit	Centigrade	Feet	Meters
32 to 113	0 to 45	-4 to 158	-20 to 70	< 10000.	< 3000

Dimension, Weights, Humidity

Dimension (WxHxD)		Weight		Operating
Millimeter	Inches	Kilograms	Pounds	Humidity
220 x 44 x 242	8.7 x 1.73 x 9.53	2.3	5.1	10% to 90% non-condensing

Voltage and Frequency

AC Input Voltage and Frequency	
Voltage	100-240 VAC
Frequency	50~60 Hz

PoE Power Capacity

Available PoE Power	Number of Ports That Support PoE(15.4W) and PoE+(30.0W)
130W	Each of port 1 - 8 support PoE/ PoE+ within available PoE Power

Certification

Electromagnetic Emissions (EMC)
CE, FCC Part 15 Class A

Software Features

Layer 2 Switching	
Spanning Tree Protocol (STP)	• Standard Spanning Tree 802.1d • Rapid Spanning Tree (RSTP) 802.1w • Multiple Spanning Tree (MSTP) 802.1s
Trunking	Link Aggregation Control Protocol (LACP) IEEE 802.3ad • Up to 5 groups • Up to 2 ports per group
VLAN	Supports up to 4K VLANs simultaneously (out of 4096 VLAN IDs) • Port-based VLAN • 802.1Q tag-based VLAN • MAC-based VLAN • Management VLAN • Private VLAN Edge (PVE) • Q-in-Q (double tag) VLAN • Voice VLAN • GARP VLAN Registration Protocol (GVRP)
DHCP Relay	• Relay of DHCP traffic to DHCP server in different VLAN. • Works with DHCP Option 82
IGMP v1/v2/v3 Snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters. Supports 1024 multicast groups
IGMP Querier	IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router
IGMP Proxy	IGMP snooping with proxy reporting or report suppression actively filters IGMP packets in order to reduce load on the multicast router
MLD v1/v2 Snooping	Delivers IPv6 multicast packets only to the required receivers

Layer 3 Switching	
IPv4 Static Routing	IPv4 Unicast: Static routing
IPv6 Static Routing	IPv6 Unicast: Static routing

Security	
Secure Shell (SSH)	SSH secures Telnet traffic in or out of the switch, SSH v1 and v2 are supported
Secure Sockets Layer (SSL)	SSL encrypts the http traffic, allowing advanced secure access to the browser-based management GUI in the switch
IEEE 802.1X	• IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest VLAN, single/multiple host mode and single/multiple sessions • Supports IGMP-RADIUS based 802.1X • Dynamic VLAN assignment
Layer 2 Isolation Private VLAN Edge	PVE (also known as protected ports) provides L2 isolation between clients in the same VLAN. Supports multiple uplinks

Port Security	Locks MAC addresses to ports, and limits the number of learned MAC address
IP Source Guard	Prevents illegal IP address from accessing to specific port in the switch
RADIUS/ TACACS+	Supports RADIUS and TACACS+ authentication. Switch as a client
Storm Control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
DHCP Snooping	A feature acts as a firewall between untrusted hosts and trusted DHCP servers
ACLs	Supports up to 256 entries. Drop or rate limitation based on: ● Source and destination MAC, VLAN ID or IP address, protocol, port, ● Differentiated services code point (DSCP) / IP precedence ● TCP/ UDP source and destination ports ● 802.1p priority ● Ethernet type ● Internet Control Message Protocol (ICMP) packets ● TCP flag
Quality of Service	
Hardware Queue	Supports 8 hardware queues
Scheduling	● Strict priority and weighted round-robin (WRR) ● Queue assignment based on DSCP and class of service
Classification	● Port based ● 802.1p VLAN priority based ● IPv4/IPv6 precedence / DSCP based ● Differentiated Services (DiffServ) ● Classification and re-marking ACLs
Rate Limiting	● Ingress policer ● Egress shaping and rate control ● Per port
Management	
DHCP Server	Support DHCP server to assign IP to DHCP clients
Zero Touch Upgrade	Upgrade single switch automatically when you get notification
Remote Monitoring (RMON)	Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis
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) ports can be mirrored to single destination port. A single session is supported.
UPnP	The Universal Plug and Play Forum, an industry group of companies working to enable device-to-device interoperability by promoting Universal Plug and Play
s-Flow	The industry standard for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats

IEEE 802.1ab (LLDP)	● Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network ● Support LLDP-MED extensions
Web GUI Interface	Built-in switch configuration utility for browser-based device configuration
CLI	For users to configure/manage switches in command line modes
Dual Image	Independent primary and secondary images for backup while upgrading
SNMP	SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM)
Firmware Upgrade	● Web browser upgrade (HTTP/ HTTPs) and TFTP ● Upgrade through console port as well
NTP	Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched
Other Management	● HTTP/HTTPs; SSH ● DHCP Client/ DHCPv6 Client ● Cable Diagnostics ● Ping ● Syslog ● Telnet Client ● IPv6 Management
Power over Ethernet (PoE)	
Port Configuration	Supports per port PoE configuration function
PoE Scheduling	Supports per port PoE scheduling to turn on/off the PoE devices (PDs).
Auto-checking	Check the link status of PDs. Reboot PDs if there is no responses.
Power Delay	The switch provides power to the PDs based on delay time when PoE switch boots up, in order to protect switch from misuse of the PDs