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## 52-port Managed Gigabit Switch PS4840GR

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### Introduction

The PS4840GR is a fully L2 network Gigabit PoE switch designed and developed solely for the purpose of building high-performance gigabit network requirements. It is a full 48-port Gigabit RJ45 and 4-port Gigabit SFP ports to provide a comprehensive security protection system, perfect QoS strategy, and rich VLAN functions. With simple management and maintenance features, it can support all the applications for small and medium enterprises, core layer of communities and schools.



### Features

- 48\*10/100/1000M RJ45 PoE ports with IEEE 802.3at/af PoE functions, plus 4\*1000M SFP ports;
- Comprehensive security protection system to ensure long-term stable operations of the network;
- Rich QoS strategy and ACL access control function, multi service, efficient integration operation;
- Port convergence and spanning tree protocol to improve the ability of link redundancy backup;
- Provide secure, flexible ways of providing Web, network management, CLI command line, SNMP, etc.
- Provide network diagnosis, cable inspection, system logs and other functions, for simple maintenance.

### Full Gigabit transmission

Provides 48 10/100/1000M adaptive RJ45 port with line speed forwarding capacity per port basis, and 4 independent SFP (Mini GBIC) expansion slots for optical fiber

### Comprehensive safety protection system

Simple operation for simplifying the management of network;  
Combination of ARP attack protection function, preventing from the network ARP spoofing attacks;  
Support port security, can limit the number of port MAC address, MAC address effective defense attack;  
Support DoS attack protection, effectively guarantee the network security.

### Powerful VLAN capabilities

IEEE802.1Q VLAN to meet the needs for different users, and to make the network more convenient, efficient and safer.



## Rich QoS strategy

3 priority modes based on port, IEEE802.1p and DSCP to guarantee the priority processing of key business data;  
Support traffic control function, and can reasonably allocate bandwidth for different applications.

## Multi-level access control policy

Powerful hardware ACL capacity, support L2~L4 data stream classification;  
Easy network monitoring, traffic regulation, priority weight markers and data forwarding control;  
Support time based ACL control, to easily realize the time accurate access control needs;  
Support port and MAC 802.1x based authentication based on user access for easy setup.

## Reliability design

STP/RSTP/MSTP two layer link protection technology, greatly improve the ability of fault tolerance, redundancy link, to ensure stable network operations;  
Provide static convergence and dynamic aggregation of two kinds of convergence pattern, to effectively increase the link bandwidth, and to improve link reliability, while achieving load balancing and link backup;  
Support multicast management, through the IGMP Snooping technology, effective inhibition of multicast overload caused by network congestion.

## Secure network management and maintenance

CLI command line (Console, Telnet), Web network, SNMP (V1/V2c/V3, SSH (V1/V2) and other management methods, to achieve fast and convenient network management;  
Support user identity classification, filtering and other functions, enhanced security configurations;  
Support port data monitoring, real-time monitoring of network status, to easily achieve flexible global unified management of the network.

## Advanced watchdog Technology

System integration against false system halt, when the system resources detected.

## Hardware Datasheet

Hardware	
Model	PS4840GR
Port Interface	48 *10/100/1000M UTP (RJ45)
	4* 1000M SFP
Management port	1*Console
Reset KEY	1
Switch bandwidth	128Gbps
Packet forwarding	74.88Mpps
CPU	MIPS CPU 700MHZ
DDR	1G DDR3 1333MHz
RAM	128M
MAC	16K
Packet Buffer	Fully integrated 12M packet buffer
FLASH	16M
LED Indicator	PWR: (Power LED) SYS: (System LED) 1~48: (Green LED=10/100M Link、Orange LED=1000M Link) , PoE



	49~52: (Link/Act LED=10/100M, 1000M= Gigabit Link)
Transmission mode	Store and forward (Full wire speed)
working temperature	0°C ~40°C
Storage temperature	-40°C ~75°C
Operating humidity	5%~90% RH Non-condensing
Storage humidity	5%~95% RH Non-condensing
Device size	440(L)*360(W)*45(H)mm
Packing size	553mm (L) * 403mm (W) *93mm (H)
N. W / G. Weight ( kg )	5.56kg /6.35kg
Power Consumption	≤ 30W for system only
Power Input	Built-in power AC 100~240V 50/60Hz, Max. 600w

### Software Datasheet

Web software function	
Standards	IEEE 802.3x IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z IEEE 802.3ad IEEE 802.3q, IEEE 802.3q/p IEEE 802.1w, IEEE 802.1d, IEEE 802.1S, 802.1X
MAC Address	16K MAC addresses, MAC address learning and aging
PoE Standards	IEEE 802.3af/at x 48 ports, Per PoE port max 30W. Power budget 500W
VLAN	4k VLANS, Port-based VLANs, 802.1Q VLAN Support Voice VLAN, can configure QoS for voice data
Spanning Tree	STP (Spanning Tree Protocol) RSTP/MSTP (Rapid Spanning Tree Protocol) ERPS ring network protocol EAPS ring network protocol 802.1x argumentation agreement
Link Aggregation	Max 8 aggregation groups, each supports 8 ports Static aggregation and dynamic aggregation
Port Mirror	Many-to-one port mirroring
Loop Guard	Loop protection function, real-time detection, rapid alarm, accurate positioning, intelligent blocking, automatic recovery
Port Isolation	Support downlink ports isolated from each other and communicated with upstream port
Flow Control	Half duplex based back pressure control. Full duplex based on PAUSE frames
Speed Limitation	Support port-based input / output bandwidth management
Multicast Control	IGMPv1/2/3 MLDv1/2 Snooping



	<p>GMRP protocol registration</p> <p>Multicast address management, multicast VLAN, multicast routing ports, static multicast addresses</p>
DHCP	DHCP Snooping
Storm Suppression	<p>Unknown unicast, multicast, unknown multicast, storm suppression of broadcast type</p> <p>Storm suppression based on bandwidth tuning and storm filtering</p>
Security	<p>User port + IP address + MAC</p> <p>ACL based on IP and MAC</p> <p>Security properties of port-based MAC address quantities</p>
QoS	<p>802.1p port queue priority algorithm</p> <p>CoS/ToS, QoS sign</p> <p>WRR (Weighted Round Robin), Weighted priority rotation algorithm</p> <p>WRR, SP, WFQ priority scheduling modes</p>
PoE Function	<p>Port Switch schedule arrangement, time switch</p> <p>Voltage, current and power display</p> <p>System total power display and configuration</p> <p>PoE Watch dog, automatically restart and timed restart when device crashes.</p> <p>Support IP binding restart</p> <p>Port power configuration</p> <p>Over-power indicator</p> <p>Port PoE type configuration (802.3at/af)</p>
Power Budget	500W (0~25°C operational condition)
Cable Sequence	Auto-MDIX; Auto detection on straight-through and cross-over cable
System Maintenance	<p>Upgrade package upload, system log view</p> <p>WEB restore factory configuration</p>
Network Management	<p>WEB NMS, CLI management based on Telnet, Console</p> <p>Remote configuration and maintenance using Telnet.</p> <p>SNMP V1/V2C/V3 management</p> <p>RMON V1/V2 management, RMON management</p>