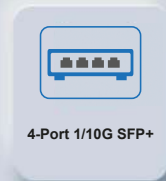


AL-PGS5052M-48P-4SP-960

48-PORT GIGA LAYER 3 MANAGED PoE SWITCH



48-Port 10/100/1000Base-T Uplink L3 Managed PoE Ethernet Switch 4-Port 1/10G SFP+ 1-USB port Smart Managed PoE Switch

Features

Switching Features

- IP-Mac-VLAN- Port Binding
- QoS, LLDP
- STP/RSTP/MSTP
- SNMP (V1/V2/V3), RMON
- Link aggregation
- Port isolation
- Broadcast storm control

Advanced Features

- IGMP Snooping V1/V2/V3
- Static and dynamic aggregation

Robust Design

- IP40-rated metal housing
- Fanless, passive cooling design
- Shock Proof, Anti Vibration, Free Fall

Product Overview

Alcon 48 port Giga L3 Managed PoE Switch is based on a new generation of high-performance hardware & Software Combination with affordable cost for all types of projects.

AL-PGS5052M-48P-4SP-960 is a full gigabit L3 managed PoE fiber switch independently developed by Alcon. It has 4*10G SFP port (optional single-mode/multi-mode, single-fiber/dual-fiber optical module). 48*10/100/1000Base-T RJ45 PoE ports 1-48 can Supports IEEE802.3af/at, with a power supply of 15.4W per port and a maximum power of 30W per port, it can automatically detect and recognize power-compliant devices that meet the standard and supply power through the network cable. It can supply power to PoE terminal equipment such as IP Camera, WLAN AP, VOIP Phone, Etc.

The AL-PGS5052M-48P-4SP-960 has 960W Power Budget L3 network management function, complete security protection mechanism, ACL/QoS policy and rich VLAN functions, easy to manage and maintain. Support multiple network redundancy protocols STP/RSTP(<50ms) ,to improve link backup and network reliability to ensure uninterrupted communication of important applications. According to actual application needs, port management, port flow control, VLAN division, IGMP, security policy and other application service configurations are performed through Web and other network management methods.



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Gigabit access, 10G fiber uplink

- Supports Gigabit Ethernet port and 10G SFP+ port combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- Support non-blocking wire-speed forwarding.
- Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure

Intelligent PoE power supply

- 48* 10/ 100/ 1000Base-TPoE ports can support POE power supply to meet the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- IEEE802.3af/at PoE standard, without damaging non-PoE devices. Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.
- PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.

Security

- 802.1X authentication.
- Port isolation, Storm control.
- IP-MAC-VLAN-Port binding.

Strong business processing capability

- IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN, and QinQ configuration.
- QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including EQU, SP, WRR & SP+WRR.
- ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.
- IGMP V1/V2 and IGMP Snooping.
- ERPS/STP/RSTP/MSTP.
- Static and dynamic aggregation

Stable and reliable

- Low power consumption, with fan, Steel alloy shell.
- Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.
- CCC, CE, FCC, RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, L/A, PoE

Easy operation and maintenance management

- Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- HTTPS, SSLV3, and SSHV1/V2.
- RMON, system log, LLDP, and port traffic statistics.
- CPU monitoring, memory monitoring, Ping test, and cable diagnose.

Application



College



Hospital



Govt.



Corporates

AL-PGS5052M-48P-4SP-960



Model	AL-PGS5052M-48P-4SP-960	
Interface Characteristics		
Fixed Port	4*1/10G uplink SFP+ ports 48*10/100/1000Base-T PoEPoE ports 1*Console port 1*USB port	
Ethernet Port	Port 1-48 support 10/ 100/ 1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meters) 100BASE-TX: Cat5 or later UTP(≤100 meters) 1000BASE-T: Cat5e or later UTP(≤100 meters)	
SFP Slot Port	Gigabit SFP optical fiber port and 10G SFP+ optical fiber port, default no include optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)	
Wavelength/Distance	Multi-mode: 850nm / 0-550M(1G), 850nm /0-300M(10G), Single-mode: 1310nm / 0-40KM, 1550nm / 0-120KM.	
Chip Parameter		
Network Management Type	L3	
Ring network	Supports ERPS ring network function, with a maximum number of rings of 5 and a convergence time of<20ms	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3ae10GBase-LR/SR, IEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	176Gbps	
Buffer Memory	131Mpps	
MAC	32K	
LED Indicator	PowerIndicatorLight	PWR : 1 Green
	System indicator	SYS : 1 Green
	10G Fiber Indicator Light	49-51 : 1 Green (Link,SDFED)
	On thePoE seat	1-48 Yellow:Indicate PoE 1-48Green: Indicates network working status
Reset Switch	Yes, Press and hold the reset switch for 10s and release it to restore the factory settings	



Power	
PoE Port	Port 1 to 48 IEEE802.3af/at
Power Supply Pin	Default 1/2 (+), 3/6 (-)
Max Power Per Port	15.4W per port, with a maximum power of 30W per port
Total PWR	960W
Power Supply	AC100-240V 50/60Hz
Certification & Warranty	
Lightning Protection	<p>Lightning protection: 6KV 8/20us; Protection level: IP40</p> <p>IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge</p> <p>IEC61000-4-3(RS):10V/m(80~ 1000MHz)</p> <p>IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV</p> <p>IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV</p> <p>IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)</p> <p>IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m , 1s to 3s</p> <p>IEC61000-4-9(pulsed magnet field):1000A/m</p> <p>IEC61000-4- 10(damped oscillation):30A/m 1MHz</p> <p>IEC61000-4- 12/ 18(shockwave):CM 2.5kV,DM 1kV</p> <p>IEC61000-4- 16(common-mode transmission):30V; 300V, 1s</p> <p>FCC Part 15/CISPR22(EN55022):Class B</p> <p>IEC61000-6-2(Common Industrial Standard)</p>
Mechanical Properties	<p>IEC60068-2-6 (anti vibration)</p> <p>IEC60068-2-27 (anti shock)</p> <p>IEC60068-2-32 (free fall)</p>
Certification	CE, FCC, RoHS
Physical Parameter	
Operation TEMP /Humidity	-20~+55°C;5%~90% RH Non condensing
Storage TEMP /Humidity	-20~+75°C;5%~95% RH Non condensing
Dimension (L*W*H)	440mm* 300mm*44mm
Installation	Desktop, 19 inch 1U cabinet installation



Network Management Features	
L3 Function	Support L3 network management function Supports IPV4 dynamic routing RIPv1/v2、 OSPFv2 Supports IPV4/IPV6 static routing/default routing, each supporting a maximum of 128 entries Supports three layer routing forwarding, supports communication between different network segments and VLANs
Port configuration	Auto-negotiation Flow Control Port Mirror: TX/RX/BOTH; Many-to-1 monitor Traffic statistics
Link Aggregation	Static link aggregation LACP Algorithm based on Source/Destination MAC Algorithm based on Source/Destination IP
MAC Table	Aging Time Static MAC address Dynamic MAC address management
VLAN	4094 Active VLANs 4094 VID 802.1Q Tag VLAN Port VLAN Protocol VLAN MAC VLAN Voice VLAN 802.1ad Q-in-Q tunneling Private VLAN (Protected port) GARP/GVRP
ACL	256ACLs L2, L3 e L4 Time-based ACL
Spanning tree	802.1D Spanning Tree Protocol (STP) 802.1w Rapid Spanning Tree Protocol (RSTP) 802.1s Multiple Spanning Tree Protocol (MSTP) Loop Guard Root Guard TC-BPDU Guard BPDU Guard BPDU Filter
Ring Protection	<20ms G.8032 ERPS Ring
Multicast	256 groups IGMP v1/v2/v3 Snooping, Fast Leave MLD Snooping Multicast VLAN
QOS	port-based CoS 802.1p-based CoS DSCP-based Scheduling algorithms SP, WRR, SP+WRR Storm Control (Broadcast, Multicast, Unknown Unicast) Bandwidth control per port



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DHCP	SNMP v1/v2c/v3 with Full Private MIBs RMON 4 groups WEB (HTTP/HTTPS) CLI (Telnet, Console, SSHv1/v2) Firmware upgrade via console/web/TFTP Configuration Backup/Reload Dual Firmware LLDP
Security Features	Port Security MAC address filter ARP Association (Manual, ARP scanning, DHCP snooping) ARP Protection DoS (Denial of Service) Classification of packages based on: End.MAC, IP End, TCP / UDP Ports, Protocol Type; 802.1x Authentication (port-based e MAC-based) TACACS/TACACS+ Authentication RADIUS Authentication DHCP Filter Guest VLAN SSLv2/SSLv3/TLSv1 SSHv1/SSHv2 Restriction of WEB access based on: IP Address, And. MAC and Port; Port Isolation Loopback detection
Other Features	DNS Client DHCP Relay DHCP Client DHCP Snooping DHCP Option 82 SNTP Client UDLD
Maintenance	Cable Diagnostics Ping SFP DDM(Digital Diagnostics Monitoring) Thermal protection System log (Local and Remote) Memory and CPU Monitoring

ORDERING INFORMATION

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*Product specifications and availability are subject to change without notice.

