

# Layer2+ Enterprise Giga Managed Industrial PoE Switch

Excellent heat,  
Dissipation Performance.



 <b>-40-75°C Operating Temperature</b>	 <b>Layer2+ Managed</b>	 <b>IP40 Grade Protection</b>	 <b>6KV Industrial Lightning Protection</b>	 <b>High Performance Industrial grade device</b>	 <b>Dual power supply redundancy No worries to change</b>
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## Features

### Switching Features

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

### Advanced Features

- IGMP Snooping V1/V2/V3
- Static and dynamic aggregation
- L2 / L3 ACL

### Network Redundancy

- Dual power input for redundant power supplies
- Ethernet Ring Protection Switching (ERPS)

### Robust Design

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

## Product Overview

Alcon Giga L2+Managed Industrial grade PoE Switch is based on a new generation of high-performance hardware & Software Combination with affordable cost for all types of projects. It has 8\*10/100/1000Base-TPoE ports Port 1-8 can support IEEE802.3af/at standard. Single port maximum power 30W. and 2/4/8\*100/1000Base-X/2.5Gbps SFP fiber ports. Each port can support wire-speed forwarding

The reliable industrial series having advanced features such as electromagnetic compatibility, anti-vibration and anti-shock capability, and IP40 protection, can be widely used in energy, transportation, industrial production, environmental protection, military industries & etc.

The Alcon has L2+ network management function, support IPV6 static route forwarding, complete security protection mechanism, ACL/QoS policy and rich VLAN functions, easy to manage and maintain. Support multiple network redundancy protocols STP/RSTP/MSTP(<50ms), Support ERPS ring network function(-convergence time<20ms) to improve link backup and network. The shell is made of aluminum alloy, which has excellent industrial field environmental adaptability (including mechanical stability, climate environment adaptability, electromagnetic environment adaptability, etc.), protection level is IP40, support dual redundant power supply, low power consumption and no fan, 3/5-year warranty. It is suitable for industrial scenarios such as intelligent transportation, rail transit, electric power industry, mining, petroleum, shipping, metallurgy and green energy construction to establish a cost-effective, stable and reliable communication network.



AL-PGIS5010MATE-8P-2S-240



AL-PGIS5012MATE-8P-4S-240



AL-PGIS5016MATE-8P-8S-240

## Robust Industrial Managed Switch

Durable, Reliable, Flexible & Smart Network for Harsh Environments.

### Rugged Industrial Grade

Equipped with anti-dust IP40-rated aluminum alloy case, the switch is designed and certified to withstand a high degree of vibration, shock, free-fall protection and against ESD/EMI surge for harsh environments.\*

### Reliable Dual Redundancy

Supports network redundancy with RSTP, MSTP, LACP and power redundancy with two power inputs to ease the unexpected risk and ensure stable and reliable network service quality.

### PoE PD Alive Check

PoE Powered Device (PD) alive check to monitor real-time status of connected PDs and enable to reboot fail PDs to enhance the reliability of the network.

### High/Low Temp. Resistance

The industrial switch operates with a wide temperature range from -40°C to 75°C (-40°F to 167°F) for industrial and outdoor network deployment with capability of withstanding the extreme hot and freezing environments.

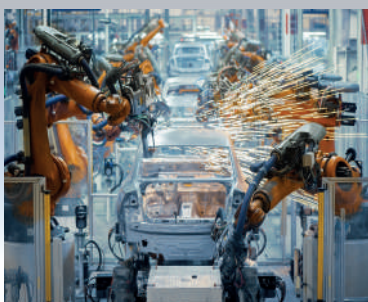
### Smart & Secure Mgmt.

The industrial switch features smart and simple network monitoring tools that allow for improved network efficiency and security.

### Fanless Design

With no moving parts inside to reduce downtime and maintenance call outs, the rugged housing has been optimised for the transfer of heat.

## Application



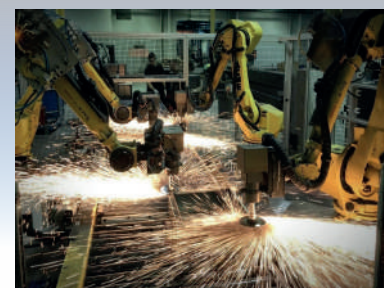
Manufacturing



Energy Plant



Transportation, Smart City



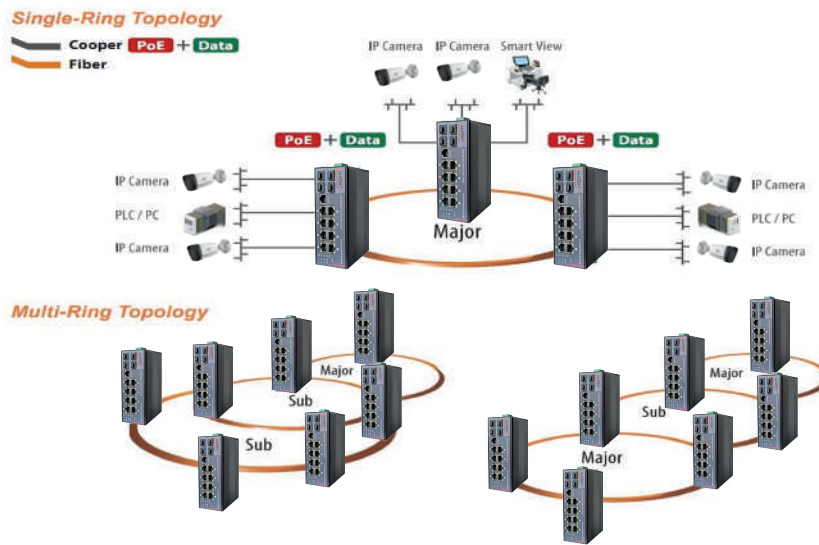
Factory Automation

## Product Specification

		AL-PGIS5010MATE-8P-2S-240	AL-PGIS5012MATE-8P-4S-240	AL-PGIS5016MATE-8P-8S-240
Attributes	RJ45 SFP Switching Capacity Forwarding rate	8x10/100/1000BASE-TX 2* 2.5Gbps 56Gbps 16.37Mpps	8x10/100/1000BASE-TX 4* 2.5Gbps 56Gbps 35.712Mpps	8x10/100/1000BASE-TX 8* 2.5Gbps 56Gbps 35.712Mpps
PoE+	Standards Ports Power	IEEE802.3af,802.3at 8 30W	IEEE802.3af,802.3at 8 30W	IEEE802.3af,802.3at 8 30W
Housing	Material Installation	Aluminum alloy DIN rail/wall mount	Aluminum alloy DIN rail/wall mount	Aluminum alloy DIN rail/wall mount
Power supply	Input Power	48-52 VDC// 5A (MAX) FULL LOAD ≤ 240W	48-52 VDC// 5A (MAX) FULL LOAD ≤ 240W	48-52 VDC// 5A (MAX) FULL LOAD ≤ 240W
Working	Temperatur Humidity	-40°C - 75°C 10%RH-90%RH, non-condensing	-40°C - 75°C 10%RH - 90%RH, non-condensing	-40°C - 75°C 10%RH - 90%RH, non-condensing
Storage	Temperatur Humidity	-40°C - 85°C/ 5%RH-90%RH, non-condensing	-40°C - 85°C/ 5%RH-90%RH, non-condensing	-40°C - 85°C/ 5%RH-90%RH, non-condensing
VLAN	Support IEEE802.1q VLAN,VLAN port ,based Mac VLAN,IP subnet VLAN, Protocol VLAN,VLAN convert, MVR			
Port Aggregation	Support dynamic IEEE802.3ad LACP link aggregation, static link aggregation			
Spanning Tree	Support STP, RSTP, MSTP, ITU-T G.8032 Ethernet Protection Ring(EPR)			
Multicast	Support IGMP/MLD snooping V1/V2/V3, IGMP filtrating/ modulating, IGMP searching Support IGMP agent report, MLD snooping			
Port Mirroring	Bidirectional data mirroring based on port			
QoS	Flow-based Rate Limiting Flow-based Packet Filtering 8*Output queues of each port 802. 1p/DSCP priority mapping Diff-Serv QoS, Priority Mark/Remark Queue Scheduling Algorithm (SP, WRR, SP+WRR)			
ACL	Port-based Issuing ACL,ACL based on port and VLAN L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.			

Security	IP-MAC-VLAN-Port binding ARP inspection, Anti-DoS attack AAA & RADIUS, MAC learning limit Mac black holes, IP source protection IEEE802.1X & MAC address authentication Broadcast storm control, Backup for host datum SSH 2.0, SSL, Port isolation, ARP message speed limit User hierarchical management and password protection
DHCP	DHCP Client, DHCP Snooping, DHCP Server
Management	SNMP V1/V2C/V3, LLDP Web Management (HTTPS) NTP, System work log, Ping Test CPU instant utilization status view Cable Diagnose, One-key recovery Console/AUX Modem/Telnet/SSH2.0 CLI ONV NMS platform cluster management (LLDP+SNMP) Download & Management on FTP, TFTP, Xmodem, SFTP
System	Category 6 Ethernet network cable Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer 10 or later; TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network

**Application & ERPS (Ethernet Ring Protection Switching) topology**



Ordering Information

AL-PGIS5010MATE-8P-2S-240

8-Port Gigabit RJ45 + 2-Port 2.5Gbps SFP Layer2+ Managed Industrial PoE Switch Support Up to 240Watt Power Budget

AL-PGIS5012MATE-8P-4S-240

8-Port Gigabit RJ45 + 4-Port 2.5Gbps SFP Layer2+ Managed Industrial PoE Switch Support Up to 240Watt Power Budget

AL-PGIS5016MATE-8P-8S-240

8-Port Gigabit RJ45 + 8-Port 2.5Gbps SFP Layer2+ Managed Industrial PoE Switch Support Up to 240Watt Power Budget



Product specifications and availability are subject to change without notice.

