



# **ALLNET ALL-SG8926PM**

## **Layer 2 FULL Management 24 Port Giga PoE Current Sharing Switch IEEE802.3atlaf**

- *24-Port Giga PoE Current Sharing*
- *500W PoE Budget*
- *IPv6 and IPv4 Dual Protocol*
- *SNMP v1/v2c/v3*
- *SSH version 2.0*
- *Authentication TACACS+*
- *Jumbo Frames 9Kbps*
- *VLAN Position*

### **Introduction**

The ALL-SG8926PM is 24-port 10/100/1000MBase-T + 2 Gigabit SFP L2+ Management Current Sharing PoE Switch that is designed for medium or large network environment to strengthen its network connection. The 24 10/100/1000MBase-T ports support IEEE 802.3at PoE technology, up to 30W per port and maximum 100m transmission distance. The switch equipped with Current Sharing technology to support maximum 500W power consumption for PoE power. The added 2 SFP slots support 100M and Gigabit Fiber transceiver for long distance transmission. The switch also supports Layer 2+ full management software features. These features are powerful to provide PoE Control, Network Control, Management, Monitor and Security features' requests. It is a superb choice to boost your network with better performance, efficiency and high PoE power consumption.

**Art. Nr.: 113199**



## Current Sharing PoE

ALL-SG8926PM equipped with Current Sharing technology to support maximum 500W power consumption for PoE power. There are 2 power modules inside, they work together to provide 500W PoE power to the front 24 PSE ports. Once one of the power modules is failure, the other power module can backup and continuously deliver 250W PoE power. Once the PD clients request higher than 250W power, the user can configure the priority value for the PSE ports, the switch delivers power to the higher priority ports first.

## 2 Gigabit SFP Open Slots

ALL-SG8926PM a 26-port design. It supports 2 additional SFP open slots to uplink to servers, storage, or other switching devices for long loop reach applications. The 2 SFP slots can support different types, speed and distance SFP transceivers. It also supports legacy 100M SFP transceiver. If the 100M fiber infrastructure is constructed and 100M bandwidth is enough, the 100M SFP transceiver can be an optional choice for the legacy 100M network environment.

## Full Layer 2+ Management Features

The switch includes full Layer 2+ Management features. The software set includes up to 4K 802.1Q VLAN and advanced Protocol VLAN, Private VLAN, MVR...advanced VLAN features. There are 8 physical queues Quality of Service, IPv4/IPv6 Multicast filtering, Rapid Spanning Tree protocol to avoid network loop, Multiple Spanning Tree Protocol to integrate VLAN and Spanning Tree, LACP, LLDP; sFlow, port mirroring, cable diagnostic and advanced Network Security features. It also provides Console CLI for out of band management and SNMP, Web GUI for in band Management.

## Advanced Security

The switch supports advanced security features. For switch management, there are secured HTTPS and SSH, the login password, configuration packets are secured. The port binding allows to bind specific MAC address to the port, only the MAC has the privilege to access the network. The 802.1X port based Access Control, every user should be authorized first when they want to access the network. AAA is the short of the Authentication, Authorization and Accounting with RADIUS, TACAS+ server. Layer 2+ Access Control List allows user to define the access privilege based on IP, MAC, Port number...etc.



## Technical Specifications

Standards:	<p><b>Ethernet:</b> IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3az EEE</p> <p><b>PoE:</b> IEEE 802.3at PoE+</p> <p><b>Protocol:</b> IEEE 802.3x - Flow Control, IEEE 802.1Q - VLAN, IEEE 802.1p - Class of Service, IEEE 802.1D - Spanning Tree, IEEE 802.1w - Rapid Spanning Tree, IEEE 802.1s - Multiple Spanning Tree, IEEE 802.3ad - Link Aggregation Control Protocol (LACP), IEEE802.1v - Protocol VLAN, IEEE 802.1AB- LLDP (Link Layer Discovery Protocol), IEEE 802.1X - Access Control</p>
Interface:	<p><b>Number of Port: 26</b></p> <p>10/100/1000Base RJ-45 Port: 24, Auto-negotiation, Auto MDI/MDIX</p> <p>100/1000Base-X SFP: 2</p>
Performance	<p>Switching Capacity: 52G bps</p> <p>MAC Address Table Size: 8K</p> <p>Forwarding Rate: 38.7Mpps</p> <p>Packet Buffer: 4Mb</p>



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PoE Features	<p>802.3af/at Compliant          Max. Power Output Per Port: 30W          Power Consumption : 250W / 500W Current Sharing          Internal Power: In          PD Classification          Power Management:          Enable/Disable per-port          Priority Setting per-port          Overloading Protection per-port          Power Level Setting per-port</p>
L2 Features	<p>Flow Control: 802.3x (Full-duplex)ort/ Back-Pressure (Half-duplex)          Spanning Tree:          IEEE 802.1D-2004(Includes IEEE 802.1w): Rapid Spanning Tree Protocol          802.1s Multiple Spanning Tree Protocol          Loop Detection          VLAN:          IEEE 802.1Q Tagged Based, Max. VLAN Group: 4K          QinQ          Port-based VLAN          Voice VLAN          Private VLAN          MVR          MAC-Based VLAN          Protocol-Based VAN          Link Aggregation:          Static Trunk &amp; IEEE 802.3ad with LACP          Max. Group: 13          Max. Ports/Group: 16          IGMP Snooping:          IGMP Snooping v1/v2/v3          IPv6 MLD Snooping v1/v2          Queries support/ IGMP Filtering, IGMP Leave Proxy, Immediate Leave          Storm Control: Broadcast/ Multi-cast/ Un-known Unicast          Jumbo Frame Support: 9K</p>



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Management:	<p>Command Line Interface (CLI)          Web Based Management          Telnet          Access Management Filtering: SNMP/WEB/SSH/TELNET          SNMP: v1/v2c/v3          RMON: RMON (1,2,3, &amp; 9 groups)          DHCP: Client/ Relay/ Option82/ Snooping          Event/Error Log          Software Download/ Upgrade: HTTP          Configuration Download / Upload          sFlow          Port Mirroring: One to One/ Many to One          Remote Ping          NTP/LLDP          UPnP          EEE Configuration          Cable Diagnostics          IPv6 Configuration</p>
Security:	<p>User Name / Password Protection          User Privilege: up to 15 levels          IEEE 802.1x: Port-based Access Control          IP Source Guard          MAC Based Authentication          Web-based Authentication          HTTPS          SSHv2          RADIUS: Authentication/ Accounting          TACACS+: Authentication          ACL (Access control list)</p>
Housing:	19" Metallgehäuse, Montagewinkel beiliegend
Fan/Cooling:	3x Fans 40x40x10mm = 500W Total Consumption
Maße:	Breite/Tiefe/Höhe: 440 x 331x 44 mm Gewicht: 4,4 kg
Operating Temperature & Humidity:	0~40° 5~90% (non condensing)
Marks:	CE, ROHS