



# **ALLNET ALL-SG8310PM**

## **Smart managed 8 Port Giga PoE Switch**

### **PoE Current Sharing Switch IEEE802.3atlaf**

- *8x 10/100/1000Base-T PoE*
- *2x Gigabit SFP*
- *150W Current Sharing PoE*
- *IEEE 802.3 atlaf PoE*
- *Built-in PSE power supply module, plug-and play design, easy to install*
- *High security performance defending against power surge*
- *Fanless Design*
- *4x POE á 30Watt or 8x POE á 15 Watt*
- *PoE-Budget 150 W*

#### Introduction:

The ideal solution for small offices and rapid transition solutions or PoE camera for monitoring etc. The All-SG8310PM is very suitable because of its size and its low power consumption for small offices. It is fanless and therefore not disturbing. The current PoE is ideal for thin clients, so that only needs to run a cable to the workplace. He has also through its SFP ports via a Gigabit fiber connectivity to other switches can be coupled. Rare in this size is the management of the switch.

Art. Nr.: 124022



### **IEEE 802.3af Power over Ethernet & at (PoE)**

The ALL-SG8310PM supports 4 ports Ports PoE IEEE 802.3at standard with up to 30 watts of power per port for the connected PoE devices or 8 ports full power to IEEE802.3af with up to 15.4W. The maximum PoE budget of 150W. Here, the ALL-SG8310PM uses the existing LAN cabling for the power supply. This facilitates installation of PoE devices such as wireless Access Points, IP cameras, VoIP phones and more because no account of power outlets must be taken in the placement. The PoE ON / OFF function allows the administrator to reset the comfortable devices remotely, by switching off the PoE power supply for each individual port.

### **High-Speed Networking / Jumbo Frames support**

The ALL-SG8310PM provides an excellent solution for expanding your Gigabit network. With Gigabit speed, this product offers a high flexibility and high bandwidth for connectivity to servers, workstations and other attached devices. Moreover, it also supports 9.6K jumbo frames to improve network utilization, which greatly improved the transmission of large files.

### **Extensive administrative / management functions**

Modern applications for video surveillance with IP cameras and VoIP are increasingly replacing traditional analogue technologies. This increases the demands on the network infrastructure. The ALLNET ALL-SG8310PM is equipped with many administrative and security features for all modern communication scenarios. IGMP snooping, VLAN Tagged, Quality of Service, Port Trunking, Flow Control, Storm Control, Link Aggregation, IEEE 802.1X authentication, SNMP v1 / v2c and Spanning Tree is just a small excerpt from the extensive portfolio of functions of ALL-SG8310PM.

### **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, and etc.



## Technical Specifications

<b>Standards:</b>	IEEE 802.3af Power Over Ethernet IEEE 802.3at Power Over Ethernet Plus IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000 BASE-T IEEE 802.3z 1000 BASE-X IEEE 802.3ad Static or Dynamic Link Aggregation IEEE 802.3x Full-Duplex Flow Control IEEE 802.3azEEE(Energy Efficient Ethernet) IEEE 802.1q VLAN IEEE 802.1p QoS/CoS IEEE 802.1d STP(Spanning Tree Protocol) IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol
<b>Interface:</b>	
<b>MAC Address Table</b>	Up to 8K MAC addresses Support auto-update, two-way learning
<b>VLAN</b>	Port-based VLANs\ Port-protocol-based VLANs \ ACL-based VLANs 4K-entry Vlan Table Supports flexible Q-in-Q and Vlan Tag function VLANs based on IEEE 802.1q
<b>Spanning Tree</b>	Support Spanning Tree Protocol Support Rapid Spanning Tree Protocol Support Multiple Spanning Tree Protocol
<b>Link Aggregation</b>	Support 8 aggregation groups, and a maximum of 8 ports in each aggregation group
<b>Port Mirroring</b>	Support bi-direction port mirroring RSPAN function for remote mirroring
<b>Port Isolation</b>	Isolation between downlink ports without influence the communication between downlink and uplink ports
<b>Port Flow Control</b>	Back-pressure traffic control under Half-Duplex mode IEEE 802.3x traffic control under Full-Duplex mode
<b>Port Rate Restriction</b>	Port-based ingress or egress rate limiting



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Storm Suppression	Support the suppression of broadcast storm based on forwarding rate
Multicast Control	Support IGMPv1/2/3 and MLDv1/2 Snooping;
Security	Attack Prevention (Land attack\Blat attack\Ping attack\TCP control flag attack)
	MAC & Port based Security
	TCP/UDP port based Security
QOS	SP Strict Priority
	WFQ (Weighted Fair Queuing)
	WRR (Weighted Round Robin)
	802.1p (Port Queuing Priority)
	Differentiated Service Code Point (DSCP Priority)
IPv6	IPv6 Parsing
PoE output priority Management	Supported
Physic Medium	10/100Base-TX UTP category 3/4/5 cables( Maximum 100m)
	1000Base-T UTP Category 5 cable( Maximum 100m)
	1000Base-SXfiber with 850nm wavelength supports a max transmission distance of 550m
	1000Base-LX fiber with 1310nm / 1550nm wavelength supports a max transmission distance of 80km
Network Cable Deployment	Support Auto-MDIX function, automatically identify straight forward cable and cross-over cable
Negotiation Pattern	Support port auto-negotiation function( automatically negotiate transmission rate and Duplex modes)
Maintenance	Detect the connectivity of network cables
	Uploading or downloading of the configuration data
	Uploading of upgrade patch
	Support system logs
	WEB-based reset to factory defaults
Management	WEB-based management
	CLI Management (Command Line Interface)
	Telnet
	SNMP v1 & v2c



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Operation Temperature	-20~50°C
Storage Temperature	-40~70°C
Operation Humidity	10-90%(non-condensing)
Storage Humidity	5%-95%(non-condensing)
Dimensions	280(L)×180(W)44.5(H)mm
Weight	ca. 2kg
LED Indicator	Power Link/Act PoE Status
Energy Saving	Comply with “EEE” Energy Efficient Ethernet