





# ALLNET ALL-SG8926v2PM FULL MANAGED Layer2+ 24 Port Gigabit HPoE Switch + 2x SFP

- 24x 10/100/1000BAse-T PoE + 2x 1G Gigabit SFP
- 460W Current Sharing PoE
- IEEE 802.3at PoE, bis zu 30W pro Port
- Layer 2 + Full Management Software Features
- 4K VLAN, 8 queues QoS, Advanced VLANs
- MSTP, LLDP, SFLow, 802.1X, TACAS+, ACL
- IPv4/v6 dual protocol
- 3rd Part PoE JSON API / Integration into ALLNET Building-Automation

#### Introduction

ALL-SG8926v2PM is 24-port 10/100/1000M PoE + 2 Gigabit SFP/RJ45 Copper Combo Ports L2+ Full Managed Switch that is designed for small or medium network environment to strengthen its network connection. The 24 PoE ports support IEEE 802.3at/af PoE technology, up to 30W per port and maximum 100m transmission distance. The switch equipped with AC to DC power module to support 250W/460W power budget for PoE power. The added 2 SFP/RJ45 combo ports 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.

Part no. 137465





### IEEE 802.3at/af Power over Ethernet (PoE) ports

This product can convert standard 100~240V/AC power into low-voltage DC that runs over existing LAN cable to power up IEEE 802.3at/af compliant network accessories. It also features PoE awareness to verify whether the network device receive power is IEEE 802.3at/af compliant, or only the data will be sent through LAN cable. By adding the switch to the existing networking, installing networking products such as Access Points and IP cameras can be easily managed and set up.

### 2 Gigabit RJ45 Copper/SFP Combo Ports

ALL-SG8926v2PM upports 2 Gigabit Copper/SFP Combo Ports to uplink to servers, storage, or other switching devices for long loop reach applications.

### 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/v6 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.

#### PD Alive Check

When this function is enabled, ALL-SG8926v2PM will detect a network PoE powered device (for example, an IP CAM) with a set of IP address periodically. If the switch doesn't get any replies from the network PoE powered device, ALL-SG8926v2PM will do a power cycle (PoE power OFF, and PoE power ON) to the port that connects the network PoE powered device, allowing that device to reboot. You can set the frequency of detecting, number of times of detecting, and the time period to perform power cycle when there's no reply via the switch's PoE configuration web page.





## **Technical Specifications**

Standards:	Ethernet: IEEE 802.3, 802.3u, 802.3ab, 802.3ae IEEE 802.3az Energy Efficient Ethernet (EEE) Protocol: 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
Interface:	Number of Port: 26 10/100/1000Base RJ-45 Port : 24, Auto-negotiation, Auto MDI/MDIX 1G SFP : 2
Performance	Switching Capacity: 52Gbps MAC Address Table Size: 8K Forwarding Rate: 38,688Mpps Packet Buffer: 4Mbits
QoS Features	Number of Priority queue: 8 queues/ port Scheduling for priority queue: WRR/Strict Priority scheduling/Hybrid CoS: 802.1p/ IP Precedence/ IP TOS Precedence IP DSCP/ Port based Priority Rate Limiting: Ingress/Egress: 1Kbps/ 1pps granularity DiffServ (RFC2474) remarking





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PoE Features	802.3af/at Compliant
T OE T Catales	Max. Power Output Per Port: 30W
	Power Consumption : 460W Current Sharing
	Internal Power: Built-in Power Supply
	PD Classification
	Power Management:
	Enable/Disable per-port
	Priority Setting per-port
	Overloading Protection per-port
	Power Level Setting per-port
125	5
L2 Features	Flow Control: 802.3x (Full-duplex)ort/ Back-Pressure
	(Half-duplex)
	Spanning Tree:
	IEEE 802.1D-2004(Includes IEEE 802.1w): Rapid Span-
	ning 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:
	IEEE 802.3ad with LACP: 26 trunks/ up to 8 port per
	trunk
	Static Trunk: 26 trunks/ up to 8 port per trunk
	Max. Group:26
	Max. Ports/Group:8
	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 Uni-
	cast
	Jumbo Frame Support: 10K





## **Technical Specifications**

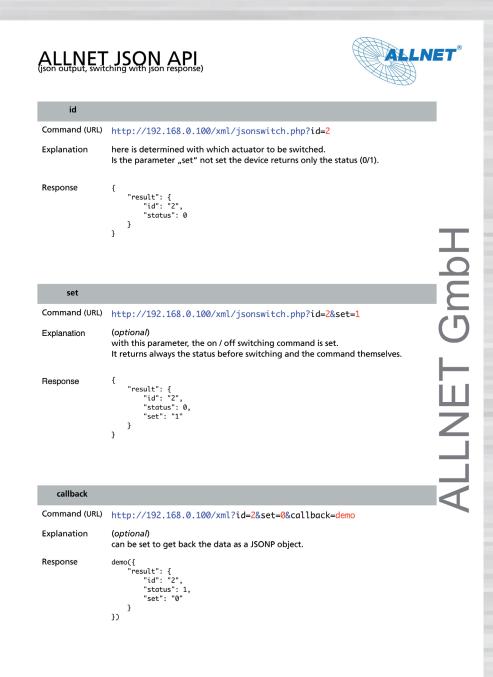
Management:	Command Line Interface (CLI)
	Web Based Management Telnet
	Access Management Filtering: SNMP/ WEB/SSH/TELNET/
	SNMP: v1/v2c/v3
	RMON: RMON (1,2,3, & 9 groups)
	DHCP: Client/ Relay/ Option82/ Snooping
	Event/Error Log: Local Flash/ Remote Server
	Software Download/ Upgrade: HTTP
	Configuration Download / Upload
	sFlow
	Port Mirroring: One to One/ Many to One
	Remote Ping NTP/LLDP
	UPnP
	EEE Configuration
	Cable Diagnostics
	IPv6 Configuration
Security:	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)
Housing:	19" Metallhousing, 19" included
Fan/Cooling:	3x Smart-Fans 40x40x10mm = 520W Total Consumption
Dimmension:	W*D*H 440 x 331x 44 mm
S. Miller Stoff.	Weight: 4,97 kg
Operating Tempera-	0~40°
ture & Humidity:	5~90% (non condensing)
Marks:	CE, ROHS
Power Input	100-240VAC





## **NEW FEATURES**

## 1. 3rd Party JSON API



Version 0.02 Stand: 2016-11





# 2. JSON INTEGRATION INTO THE ALLNET BUILDING AUTOMATION



MORE DETAILS ABOUT BUILDING AUTOMATION
SEE LINK: http://www.allnet.de/en/allnet-brand/produkte/building-automation/