

## ALLNET Switch smart managed Layer2 24 Port • PoE Budget 370W • 24x PoE at • 4x SFP • 19" • ALL-SG8428v2PM

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### EAN CODE



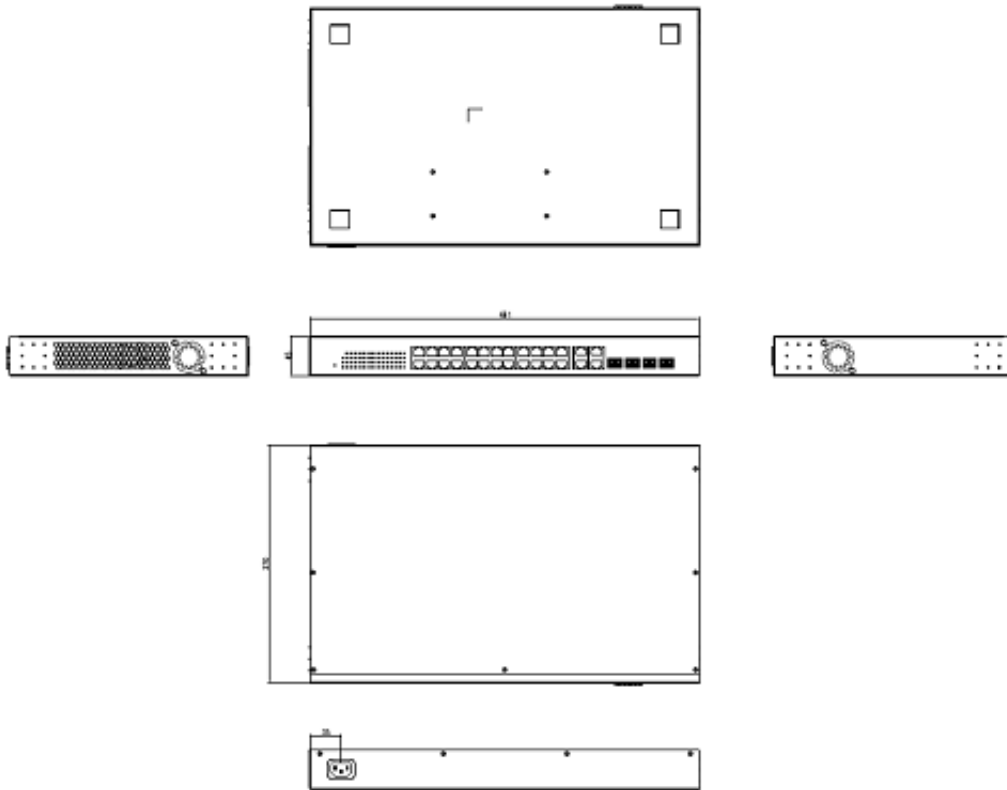
## ALLNET Switch smart managed Layer2 24 Port • PoE Budget 370W • 24x PoE at • 4x SFP • 19" • ALL-SG8428v2PM

### Highlights:

- 24 Port Gigabit non-blocking Switch Architektur
- Unterstützt NWay Protocol (10/100/1000Mbps) und Duplexmodus (half/full) Auto Detektion
- support back-pressure (half duplex), flow control (IEEE 802.3x und IEEE 802.3az Energy Efficient Ethernet)
- VLAN: Port basiert / Tagged basiert
- Link Aggregation (IEEE802.3ad LACP)
- IGMP Snooping (v1/v2)
- QoS (Port Based, Flow, 802.1p, IP-TOS, IP DSCP)
- Stormcontrol (Broadcast, Multicast, Unicast)
- 370W PoE Budget unterstützt PoE IEEE802.3af/at PSE-Devices

The new ALLNET ALL-SG8428v2PM switch provides an optimal basis for small and medium-sized workgroups with high network and data traffic and enables fast data transmission in the network. With a total of 24 downward-compatible Gigabit ports, the connected computers and servers are reliably and powerfully interconnected. The ALL-SG8428v2PM can pass a maximum PoE budget of 370W to the end devices through the internal 450W power supply. The 24 Gigabit PoE ports support the PoE standard IEEE802.3af and the IEEE802.3at standard. 2 fans are installed on the side of the switch.

### Mechanical Drawings:



## Technischical Details:

Items	Specifications
Model No.	ALL-SG8428v2PM
Key Components	RTL8382M+RTL8218Dx2+RTL8214FC Flash IC:16MB DDR: 1Gb IP808ARx3 PSE controller
I/O ports	24x GbE ports, RJ45 4 x port GbE SFP/RJ45 combo Reset Button: reset to default setting, re-start system
PoE ports	Port# 1~ 24 IEEE802.3at, IEEE802.3af



**LED Define**

PWR/SYS: Green LED

- Off: power off or fail
- On: power on
- Blinking: system booting up

PoE Alert: Green LED

- Off: No over PoE Max power Alert
- On: Over PoE Max power Alert

ALM: Red LED

- Off: Switch is normal condition
- On: Alarm for system failure because of overheat, wrong voltage, Fan failed.

Port LED:

RJ45:

- Off: port disconnected or link fail
- Green on: 10/100/1000Mbps connected
- Blinking: sending or receiving data

PoE:

- Off: PoE power output off
- Green on: PoE power output on

SFP:

- Off: disconnected or fail
- Green: 100/1000Mbps connected
- Blinking: data transmitting

**HW feature**

IEEE802.3 10BASE-T

IEEE802.3u 100BASE-TX

IEEE802.3ab 1000BASE-T

IEEE802.3az EEE

IEEE802.3x

IEEE802.3z



	<p>IEEE802.3at, IEEE802.3af</p> <p>MAC address Table: 8K</p> <p>Packet buffer size: 4.1M</p> <p>Jumbo Frame: 10K bytes</p> <p>56Gbps switching capacity</p> <p>Forwarding rate: 41.66Mpps (64-byte package size)</p>
<b>Data Transfer Rate</b>	<p>Ethernet:10 Mbps (half duplex),20 Mbps (full duplex)</p> <p>Fast Ethernet:100 Mbps (half duplex),200 Mbps (full duplex)</p> <p>Giga Ethernet:2000 Mbps (full duplex)</p>
<b>PoE power pin-out</b>	Alternative A (Pin 1,2/3,6)
<b>PoE Output power capacity</b>	<p>Maximum output :30W per each port</p> <ol style="list-style-type: none"> <li>1. Compliant with IEEE802.3af/at standard, Following IEEE802.3at/at to support PoE or PoE+</li> <li>2. Automatically discover the connection of PD device and immediately sends power to it</li> <li>3. Auto disable port if the port current is over 700mA or short happens</li> <li>4. Priority default setting is lower port NO. has high priority</li> <li>5. The maximum power used by power devices is defined by the following classification. When Port works in Auto Mode, the output port power limit will be associated with PD classification Value.</li> </ol>



<p><b>System Monitor</b></p>	<table border="1"> <thead> <tr> <th>Class</th> <th>Usage</th> <th>Minimum Power Levels Output at the PSE pin-out standard of the PSE</th> <th>Maximum Power Levels at the Powered Device standard of the PSE</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Alternative A (MAD-X) which is sending out power over number 1,2,3,6 pins of 8 wires of Ethernet CAT5 UTP cable</td> <td>15.4W</td> <td>0.44 to 12.95W</td> </tr> <tr> <td>1</td> <td>Optional</td> <td>4.0W</td> <td>0.44 to 3.84W</td> </tr> <tr> <td>2</td> <td>Optional HW Monitor IC: ADT7476</td> <td>7.0W</td> <td>3.84 to 6.49W</td> </tr> <tr> <td>3</td> <td>Optional</td> <td>15.4W</td> <td>6.49 to 12.95W</td> </tr> <tr> <td>4</td> <td>Optional</td> <td>30W</td> <td>12.95W to 25.5W</td> </tr> </tbody> </table> <p>1. Voltage Monitor</p> <ol style="list-style-type: none"> <li>Input Voltage: 12V (+/-7% Alarm Threshold)</li> <li>I/O Voltage: 3.3V (+/- 5% Alarm Threshold)</li> <li>DDR Voltage: 1.5V (+/- 5% Alarm Threshold)</li> <li>PHY Voltage: 1.1V (+/- 5% Alarm Threshold)</li> <li>MAC Voltage: 1.0V (+/- 5% Alarm Threshold)</li> </ol> <p>2. Temperature Monitor</p> <ol style="list-style-type: none"> <li>BOARD: 0~80°C</li> <li>MAC: 0~85°C</li> <li>PHY: 0~85°C</li> </ol>	Class	Usage	Minimum Power Levels Output at the PSE pin-out standard of the PSE	Maximum Power Levels at the Powered Device standard of the PSE	0	Alternative A (MAD-X) which is sending out power over number 1,2,3,6 pins of 8 wires of Ethernet CAT5 UTP cable	15.4W	0.44 to 12.95W	1	Optional	4.0W	0.44 to 3.84W	2	Optional HW Monitor IC: ADT7476	7.0W	3.84 to 6.49W	3	Optional	15.4W	6.49 to 12.95W	4	Optional	30W	12.95W to 25.5W
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<p><b>Power Input</b></p>	<p>Internal power supply</p> <p>Input: 100-240V AC</p> <p>Output: 450W</p>																								



<b>PoE Power Budget</b>	370W
<b>Reset button</b>	Support reset to default configuration
<b>Dimension</b>	441(W) x 270(D) x 45(H) mm
<b>FAN Design</b>	6300 Fanx2 (Smart Fan)
<b>Temperature</b>	Operating: -5~ 50? Storage : -40 ~ 70?
<b>Humidity</b>	Operating: 10% ~ 90% RH (non-condensing) Storage: 5% ~ 90% RH (non-condensing)

### 1. Software Feature

<b>Status</b>	System Information			
	Logging Message			
	Port	Statistics		
		Error Disabled		
		Bandwidth Utilization		
	Link Aggregation			
MAC Address Table	8K			
<b>Network</b>	IP Address	Static / Dynamic		
	System Time	SNTP / From Computer / Manual Time		
<b>Port</b>	Port Setting	State / Speed / Duplex / Flow Control		
	Error Disabled	Recovery Interval	ACL / ARP Rate Limit / BPDU Guard / Broadcast Flood / DHCP Rate Limit / Port Security / Self Loop / Unicast Flood / Unknown Multicast Flood	
	Link Aggregation	Group		
		Port Setting	State / Speed / Flow Control	
		LACP		
	EEE			
Jumbo Frame	9K Byte			
<b>PoE</b>	Global Setting	Schedule Status		
	Priority Setting			
	Power Limit			

	Power Show			
<b>VLAN</b>	VLAN	Create VLAN		
		VLAN Configuration		
		Membership		
		Port Setting		
	Voice VLAN	Property		
		Voice OUI		
	Protocol VLAN	Protocol Group		
		Group Binding		
	MAC VLAN	MAC Group		
		Group Binding		
	Surveillance VLAN	Property		
		Surveillance OUI		
	GVRP	Property		
		Membership		
Statistics				
<b>MAC Address Table</b>	Dynamic Address	Aging Time		
	Static Address			
	Filtering Address			
<b>Spanning Tree</b>	Property	State / Operation Mode / Path Cost / BPDU Handling	Operation Mode : STP/RSTP/MSTP	
	Port Setting			
	MST Instance			
	MST Port Setting			
	Statistics			
<b>Discovery</b>	LLDP	Property		
		Port Setting		
		MED Network Policy		
		MED Port Setting		
		Packet View		
		Local Information		
		Neighbor		
		Statistics		
<b>Multicast</b>	General	Property	Unknown Multicast Action / Multicast Forward Method	



		Group Address	
		Router Port	
		Forward All Table	
		Throttling	
		Filtering Profile	
		Filtering Binding	
	IGMP Snooping	Property	State / Version / Report Suppression
		Querier	
		Statistics	
	MLD Snooping	Property	State / Version / Report Suppression
		Statistics	
	MVR	Property	State / VLAN / Mode / Group Start / Group Count / Query Time
		Port Setting	
		Group Address	
<b>Security</b>	RADIUS		
	TACACS+		
	AAA	Method List	
		Login Authentication	Console / Telnet / SSH / HTTP / HTTPS
	Management Access	Management VLAN	
		Management Service	Telnet / SSH / HTTP / HTTPS / SNMP / Session Timeout
		Management ACL	
		Management ACE	
	Authentication Manager	Property	
		Port Setting	
		MAC-Based Local Account	
		WEB-Based Local Account	
		Sessions	
	Port Security		
Protected Port			
Storm Control		State / Broadcast / Unknown Multicast /	



			Unknown Unicast / Action (Drop / Shutdown)
	DoS	Property	
		Port Setting	
	Dynamic ARP Inspection	Property	
		Statistics	
	DHCP Snooping	Property	
		Statistics	
		Option82 Property	
		Option82 Circuit ID	
	IP Source Guard	Port Setting	
		IMPV Binding	
		Save Database	
<b>ACL</b>	MAC ACL		
	MAC ACE		
	IPv4 ACL		
	IPv4 ACE		
	IPv6 ACL		
	IPv6 ACE		
	ACL Binding		
<b>QoS</b>	General	Property	CoS / DSCP / CoS-DSCP / IP Precedence
		Queue Scheduling	Strict Priority / WRR
		CoS Mapping	
		DSCP Mapping	
		IP Precedence Mapping	
	Rate Limit	Ingress / Egress Port	
Egress Queue			
<b>Diagnostics</b>	Logging	Property	Console / RAM / Flash
		Remote Server	
	Mirroring		
	Ping		
	Traceroute		
	Copper Test		
	Fiber Module		
	UDLD	Property	Message Time

		Neighbor	
<b>Management</b>	User Account		
	Firmware	Upgrade / Backup	Action (Upgrade / Backup) / Method (TFTP / HTTP)
		Active Image	Active Image / Backup Image
	Configuration	Upgrade / Backup	Action (Upgrade / Backup) / Method (TFTP / HTTP)
		Save Configuration	Source File / Destination File, Restore Factory Default
	SNMP	View	
		Group	
		Community	
		User	
		Engine ID	
Trap Event		Authentication Failure / Link UP_Down / Cold Start / Warm Start	
	Notification		
<b>RMON</b>	Statistics		
	History		
	Event		
	Alarm		
<b>Marks</b>	<b>Safety</b>	LVD EN62368-1:2014	
	<b>EMC</b>	CE EN55032: 2015+AC:2016 EN55035: 2017	class A
FCC Part15, Subpart B: ANSI C			

## Attributes

Attribute	Value
Anzahl Ports PoE/LAN:	24/0
Belüftung Switch:	Mit Lüfter
Einsatzort Switch:	19"



Part No.: 211066  
Vendor Part No.: ALL-SG8428v2PM

Attribute	Value
LAN Geschwindigkeit:	1Gbit/s
Management:	smart managed (WebGui)
PoE Budget:	<500 Watt
PoE Port Leistung:	30W at
SFP Geschwindigkeit:	SFP 1Gbit
Weight:	5.7 Kg
Warranty:	24.00 Months