

## ALLNET Switch smart managed Layer2 28 Port • 24x 1 GbE • PoE Budget 400W • 4x SFP+ • 19" • Fanles • ALL-SG8428v2FPM-10G

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### EAN CODE



## ALLNET Switch smart managed Layer2 28 Port • 24x 1 GbE • PoE Budget 400W • 4x SFP+ • 19" • Lüfterlos • ALL-SG8428v2FPM-10G

### Highlights:

- 24 port PoE Gigabit non-blocking switch architecture + 4 SFP+ Mini-GBIC slots = Total 28 ports
- PoE standard according to IEEE802.3af / at max. 30W per port
- Supports NWay protocol for speed (10/100/1000Mbps) and duplex mode (half/full) auto-detection
- Switch capacity up to 128Gbps
- 16K MAC address table
- 12K bytes jumbo frames
- 400W PoE budget
- Hardware monitor alarm
- **FANLESS**

Secure the ALLNET Switch smart managed Layer2 28 Port – the powerhouse for your network!

With 24 Gigabit Ethernet ports supporting PoE according to IEEE802.3af/at and providing a maximum power of 30W per port, you can reliably power your devices. Additionally, this switch boasts 4 SFP+ Mini-GBIC slots, increasing the total number of available ports to an impressive 28.

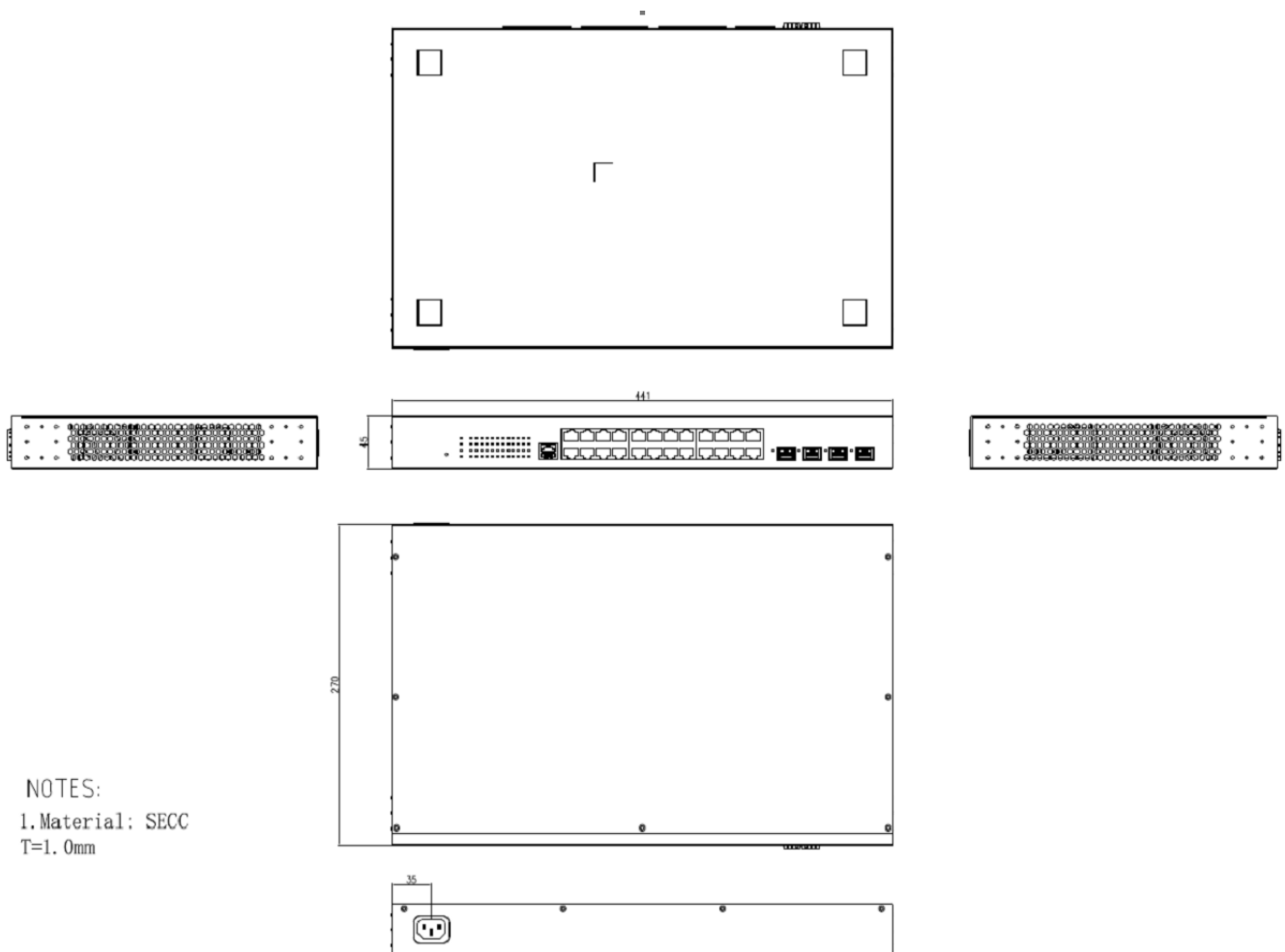
This switch not only delivers power but also intelligent features. Thanks to the NWay protocol, it automatically detects the optimal speed (10/100/1000Mbps) and duplex mode (half/full) for your devices. The switch has a

capacity of up to 128Gbps, and the 16K MAC address table ensures efficient data management.

With a generous Jumbo Frames buffer of 12K bytes, you are ready for transferring large amounts of data. The integrated 400W PoE budget provides sufficient power to operate your PoE devices, all without fans, ensuring a quiet and disturbance-free environment.

Expand your networking capabilities and rely on the quality of the ALLNET Switch smart managed Layer2 28 Port. Order the ALL-SG8428v2FPM-10G today and elevate your network's performance to the next level!

## Mechanical Drawings:



### NOTES:

1. Material: SECC  
T=1.0mm

## Technical Details:



## Hardware-Specs:

Items	Specifications
Model No.	ALL-SG8428v2FPM-10G
Key Components	<ol style="list-style-type: none"> <li>1. RTL9301-CG+RTL8218Dx3</li> <li>2. GD32E230G8U6TR + RTL8238Bx3</li> <li>3. Flash IC: MXIC 32M Byte</li> <li>4. DDR: 2G bits</li> </ol>
I/O ports	<p>24x GbE ports, RJ45</p> <p>4 x 10G ports, SFP+</p> <p>Reset Button: reset to default setting, re-start system</p> <p>Console port by RJ45 type</p>
PoE ports	<p>Port# 1~ 24</p> <p>IEEE802.3at, IEEE802.3af</p>
LED Define	<p>PWR: Green LED</p> <ul style="list-style-type: none"> <li>• Off: power off or fail</li> <li>• On: power on</li> </ul> <p>SYS: Green LED</p> <ul style="list-style-type: none"> <li>• Off: power off or fail</li> <li>• On: system is ready</li> <li>• Blinking: system booting up</li> </ul> <p>ALM: RED LED</p> <ul style="list-style-type: none"> <li>• Off: Switch is normal condition</li> <li>• On: Alarm for system failure because of overheat, wrong voltage.</li> </ul> <p>PoE Max: Green LED</p> <ul style="list-style-type: none"> <li>• Off: No over PoE max power Alert</li> <li>• On: Over PoE max power Alert</li> </ul> <p>1-24 Port LED:</p> <p>Link/ACT:</p> <ul style="list-style-type: none"> <li>• Off: port disconnected or link fail</li> <li>• Green on: 1000Mbps connected</li> <li>• Amber on: 10/100Mbps connected</li> </ul>



	<ul style="list-style-type: none"> <li>• Blinking: sending or receiving data</li> </ul> <p>25-28 port LED:</p> <p>SFP+:</p> <ul style="list-style-type: none"> <li>- Off: disconnected or fail</li> <li>- Blue: 10Gbps connected</li> <li>- Green: 1000Mbps connected</li> <li>- Blinking: data transmitting</li> </ul> <p>PoE: Green LED</p> <ul style="list-style-type: none"> <li>• Off: PoE power output off</li> <li>• Green on: PoE power output on</li> </ul>
<b>HW feature</b>	<p>IEEE802.3 10BASE-T</p> <p>IEEE802.3u 100BASE-TX</p> <p>IEEE802.3ab 1000BASE-T</p> <p>IEEE802.3ae SFP+</p> <p>IEEE802.3az EEE</p> <p>MAC address Table: 16K</p> <p>Packet buffer size: 12Mbit</p> <p>Jumbo Frame: 12K bytes</p> <p>128Gbps switching capacity</p> <p>Forwarding rate: 95.2Mpps (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> <p>10 Gigabit Ethernet:20 Gbps (full duplex)</p>
<b>System Monitor</b>	<p>HW Monitor IC: ADT7476</p> <ul style="list-style-type: none"> <li>• Voltage Monitor</li> </ul>



	<ul 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> <li>• Temperature Monitor             <ul style="list-style-type: none"> <li>◦ BOARD: 0~80° C</li> <li>◦ MAC: 0~85° C</li> <li>◦ PHY: 0~85° C</li> </ul> </li> </ul>
<b>Power Input</b>	Internal power supply  Input: 90~264VAC/47~63Hz  Output: 600W
<b>PoE Power Budget</b>	400W
<b>Reset button</b>	Support reset to default configuration
<b>Dimension</b>	441(W) x 270(D) x 44(H) mm
<b>FAN Design</b>	Fanless
<b>Temperature</b>	Operating: 0 ~ 40?  Storage : -40 ~ 70?
<b>Humidity</b>	Operating: 10% ~ 90% RH (non-condensing)  Storage: 5% ~ 90% RH (non-condensing)

### Software-Specs:

<b>Status</b>	System Information			
	Logging Message			
	Port	Statistics		
		Error Disabled		
		Bandwidth Utilization		
	Link Aggregation			



	MAC Address Table	16K		
<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	12K 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	
		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		

## Attributes

Attribute	Value
Anzahl Ports PoE/LAN:	24/0
Belüftung Switch:	Lüfterlos
Einsatzort Switch:	19"
Management:	smart managed (WebGui)
PoE Budget:	<500 Watt
PoE Port Leistung:	30W at
SFP Geschwindigkeit:	SFP+ 10Gbit
Weight:	5 Kg
Warranty:	24.00 Months

## Accessories

Part No.	Name
101189	ALLNET ALL4757 / Switch module SFP+ (mini Gbic), 10Gbit, SR/
101190	ALLNET ALL4758 / Switch module SFP+ (mini Gbic), 10Gbit, LR/
128848	ALLNET Switch Module ALL4760 SFP+(Mini-GBIC), 10Gbit
139776	ALLNET Switch Module ALL4763 SFP+(Mini-GBIC), 10Gbit
139777	ALLNET Switch Module ALL4764 SFP+(Mini-GBIC), 10Gbit
146282	ALLNET Switch Module ALL4767 SFP+(Mini-GBIC), 10Gbit
149613	ALLNET Switch Module ALL4757-INDU SFP+(Mini-GBIC), 10Gbit
149616	ALLNET Switch Module ALL4758-INDU SFP+(Mini-GBIC), 10Gbit
191685	ALLNET Switch Modul ALL4768 SFP+(Mini-GBIC), 10Gbit Singlemode, ER/LC, bis 40Km
191686	ALLNET Switch Modul ALL4769 SFP+(Mini-GBIC), 10Gbit Singlemode, ZR/LC, bis 80Km
195857	ALLNET Switch Modul ALL4795 SFP+(Mini-GBIC), 10Gbit Singlemode, ZR/LC, bis 100Km



Part No.: 213130  
Vendor Part No.: ALL-SG8428v2FPM-10G

Part No.	Name
208360	ALLNET Switch Modul ALL4767-INDU SFP+(Mini-GBIC), 10Gbit, RJ45(TP), uncodiert, Industrial -40/+85 Grad,
132994	ALLNET Switch Modul, DAC(direkt Kabel), SFP+/SFP+, 10Gbit, 0,5m,
132996	ALLNET Switch Modul, DAC(direkt Kabel), SFP+/SFP+, 10Gbit, 1m,
132997	ALLNET Switch Modul, DAC(direkt Kabel), SFP+/SFP+, 10Gbit, 3m,
132998	ALLNET Switch Modul, DAC(direkt Kabel), SFP+/SFP+, 10Gbit, 5m,
132999	ALLNET Switch Modul, DAC(direkt Kabel), SFP+/SFP+, 10Gbit, 7m,