

## ALLNET Switch smart managed Layer2 54 Port • 48x 1 GbE • PoE Budget 800W • 48x PoE at • 6x SFP+ • 19" • ALL-SG8454PM-10G

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### EAN CODE



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### Highlights:

- 48 Port Gigabit non-blocking Switch Architektur + 6 SFP+ Mini-GBIC Slots = Total 52 Ports
- Unterstützt NWay Protokoll für die Geschwindigkeit (10/100/1000Mbps) und Duplexmodus (half/full) auto-detection
- Switch Kapazität bis zu 216Gbps
- 32K MAC Adress Tabelle
- 12K Bytes Jumbo-Frames
- 2x 480W Netzteil verbaut um max. 800W PoE Leistung anzubieten
- 4x Smart-Lüfter verbaut

Entdecken Sie den ALLNET Smart Managed 48-Port Gigabit Switch - Ihre ultimative Lösung für Netzwerkleistungssteigerung und PoE-Bereitstellung!

Mit dem ALLNET ALL-SG8454PM-10G Switch erreichen Sie neue Höhen in Sachen Netzwerkleistung und -verwaltung. Dieser intelligente, verwaltete Gigabit-Switch ist mit 48 Ports für blitzschnelle Verbindungen ausgestattet und verfügt über 6 SFP+ Mini-GBIC Slots, was Ihnen insgesamt 52 vielseitige Anschlussmöglichkeiten bietet.

### Höchste Geschwindigkeit und Flexibilität:

Unsere Switch-Architektur bietet eine beeindruckende nicht blockierende Gigabit-Verbindung. Mit Unterstützung



des NWay-Protokolls können Sie Geschwindigkeiten von 10/100/1000Mbps und den gewünschten Duplexmodus (halbe oder volle Duplex) automatisch erkennen, was Ihnen eine mühelose Anpassung ermöglicht.

#### **Beeindruckende Kapazität und Verwaltung:**

Dieser Switch bietet eine beeindruckende Kapazität von bis zu 216Gbps, was Ihnen ausreichend Spielraum für reibungslose Datenübertragungen und Netzwerkaktivitäten bietet. Die integrierte 32K MAC-Adresstabelle sorgt dafür, dass Ihr Netzwerk reibungslos funktioniert, und die Unterstützung von 12K-Byte-Jumbo-Frames verbessert die Effizienz weiter.

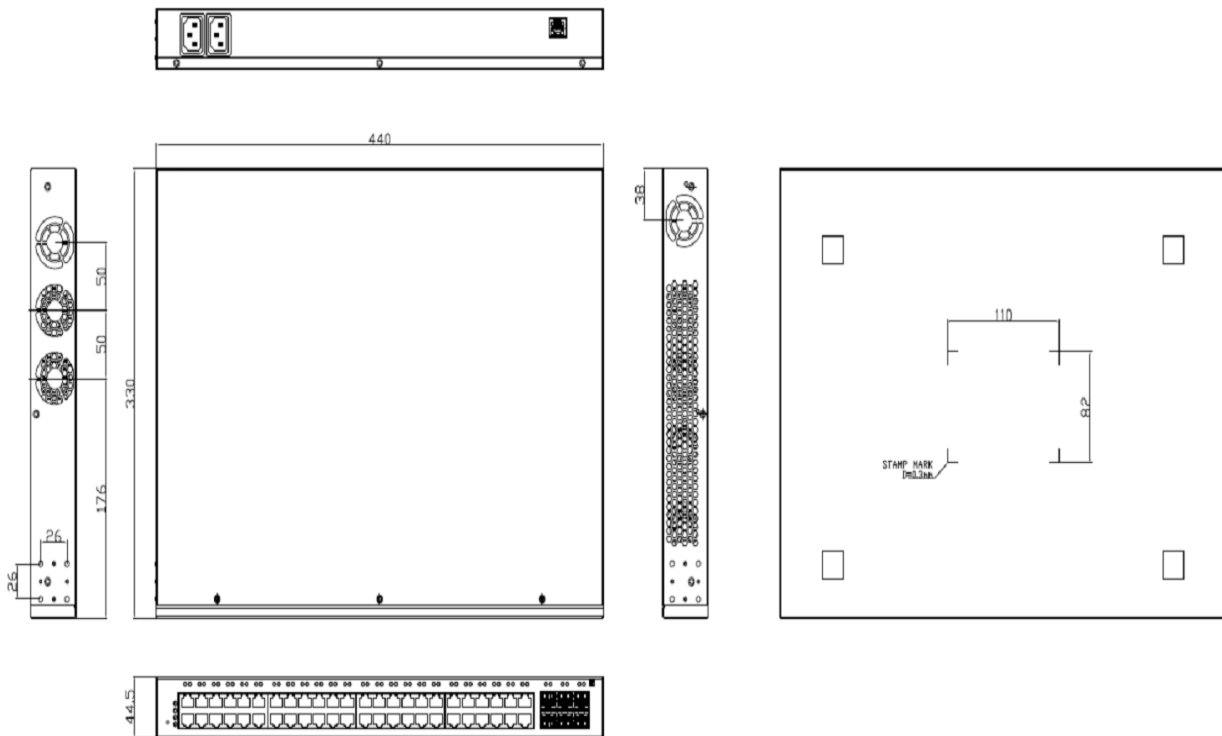
#### **PoE-Leistung und Kühlung:**

Dank der 2 eingebauten 480W-Netzteile können Sie bis zu 800W PoE-Leistung bereitstellen, um Ihre PoE-fähigen Geräte mühelos zu versorgen. Zusätzlich verfügt der Switch über 4 intelligente Lüfter, die für eine optimale Kühlung sorgen, sodass Ihr Netzwerk auch unter Belastung zuverlässig funktioniert.

Der ALLNET ALL-SG8454PM-10G ist die perfekte Wahl, um Ihr Netzwerk auf das nächste Level zu heben. Maximale Leistung, intelligente Verwaltung und erstklassige PoE-Bereitstellung machen diesen Switch zur idealen Wahl für Unternehmen, die Wert auf Spitzenleistung und Flexibilität legen.

Investieren Sie in die Zukunft Ihres Netzwerks mit dem ALLNET Smart Managed 48-Port Gigabit Switch - Ihre Verbindung zur modernen Netzwerktechnologie!

#### **Mechanical Drawings:**



## Technical Details:

## Hardware Specs:

Items	Specifications
Model No.	ALL-SG8454PM-10G
Key Components	1. RTL9311+RTL8218Dx6 2. GD32E230G8U6TR + RTL8238Bx6 3. Flash IC: MXIC 32M Byte 4. DDR: 2G bits
I/O ports	48x GbE ports, RJ45 6 x 10G ports, SFP+

	<p>Reset Button: reset to default setting, re-start system</p> <p>Console port by RJ45 type</p>
PoE ports	<p>Port# 1~ 48</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>Alert: 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>1-48 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> <li>• Blinking: sending or receiving data</li> </ul> <p>49-52 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> <p>Slide Switch: Swap Port LED &amp; PoE LED display</p>
<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: 32K</p> <p>Packet buffer size: 16Mbit</p> <p>Jumbo Frame: 12K bytes</p> <p>216Gbps switching capacity</p> <p>Forwarding rate: 129.3Mpps (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> <p>1. Voltage Monitor</p> <ol style="list-style-type: none"> <li>1. Input Voltage: 12V (+/-7% Alarm Threshold)</li> <li>2. I/O Voltage: 3.3V (+/- 5% Alarm Threshold)</li> <li>3. DDR Voltage: 1.5V (+/- 5% Alarm Threshold)</li> <li>4. PHY Voltage: 1.1V (+/- 5% Alarm Threshold)</li> </ol>

	<ul style="list-style-type: none"> <li>5. MAC Voltage:1.0V (+/- 5% Alarm Threshold)</li> <li>2. Temperature Monitor               <ul style="list-style-type: none"> <li>1. BOARD: 0~80°C</li> <li>2. MAC: 0~85°C</li> <li>3. PHY: 0~85°C</li> </ul> </li> </ul>																								
<b>Power Input</b>	<p>Internal power supply</p> <p>Input: 90~264VAC/47~63Hz, Two AC connector</p> <p>Output: 480WX2</p>																								
<b>PoE Power Budget</b>	800W																								
<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> <ul 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 can be configured and 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> </ul> <table border="1" data-bbox="805 1478 1460 1769"> <thead> <tr> <th>Class</th> <th>Usage</th> <th>Minimum Power Levels Output at the PSE</th> <th>Maximum Power Levels at the Powered Device</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Default</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</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>Follow the standard PSE pin-out standard of Alternative A (MAD-X) which is sending out power over number 1,2,3,6 pins of 8 wires of Ethernet CAT5 UTP cable</p>	Class	Usage	Minimum Power Levels Output at the PSE	Maximum Power Levels at the Powered Device	0	Default	15.4W	0.44 to 12.95W	1	Optional	4.0W	0.44 to 3.84W	2	Optional	7.0W	3.84 to 6.49W	3	Optional	15.4W	6.49 to 12.95W	4	Optional	30W	12.95W to 25.5W
Class	Usage	Minimum Power Levels Output at the PSE	Maximum Power Levels at the Powered Device																						
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2	Optional	7.0W	3.84 to 6.49W																						
3	Optional	15.4W	6.49 to 12.95W																						
4	Optional	30W	12.95W to 25.5W																						
<b>Reset button</b>	Support reset to default configuration																								
<b>Dimension</b>	441(W) x 330(D) x 45(H) mm																								



<b>FAN Design</b>	Fan*4 (Smart Fan)
<b>Temperature</b>	Operating: 0 ~ 50? 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

	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			

## Merkmale

Merkmal	Wert
Anzahl Ports PoE/LAN:	48/0
Belüftung Switch:	Mit Lüfter
Einsatzort Switch:	19"
LAN Geschwindigkeit:	1Gbit/s
Management:	smart managed (WebGui)
PoE Budget:	<1000 Watt
PoE Port Leistung:	30W at
SFP Geschwindigkeit:	SFP+ 10Gbit;
Gewicht:	6 Kg
Garantie:	24.00 Monate

## Zubehör

Art.-Nr.	Name
101189	ALLNET Switch Modul ALL4757 SFP+(Mini-GBIC), 10Gbit Multimode, SR/LC,
101190	ALLNET Switch Modul ALL4758 SFP+(Mini-GBIC), 10Gbit Singlemode, LR/LC, bis 20Km
128848	ALLNET Switch Modul ALL4760 SFP+(Mini-GBIC), 10Gbit Singlemode, bis 220m, LRM/LC, *nur für Multimode 50/125u Kabel OM1-4*
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,
139776	ALLNET Switch Modul ALL4763 SFP+(Mini-GBIC), 10Gbit, B(Bidi)A/LC, Tx1270nm/Rx1330nm, 9u, 20Km,
139777	ALLNET Switch Modul ALL4764 SFP+(Mini-GBIC), 10Gbit, B(Bidi)B/LC, Tx1330nm/Rx1270nm, 9u, 20Km,
146282	ALLNET Switch Modul ALL4767 SFP+(Mini-GBIC), 10Gbit, RJ45(TP), uncodiert
149613	ALLNET Switch Modul ALL4757-INDU SFP+(Mini-GBIC), 10Gbit Multimode, SR/LC, Industrial -40/+85 Grad,
149616	ALLNET Switch Modul ALL4758-INDU SFP+(Mini-GBIC), 10Gbit Singlemode, LR/LC, Industrial -40 -+85Grad, DDM, bis 20Km
158461	ALLNET Switch Modul, DAC(direkt Kabel), SFP+/SFP+, 10Gbit, 2m,
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
208360	ALLNET Switch Modul ALL4767-INDU SFP+(Mini-GBIC), 10Gbit, RJ45(TP), uncodiert, Industrial -40/+85 Grad,