

Vendor Part No.: ALL-SG8454PM-10G

# 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**



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

#### Highlights:

- 48 port Gigabit non-blocking switch architecture + 6 SFP+ Mini-GBIC slots = Total 52 ports
- Supports NWay protocol for speed (10/100/1000Mbps) and duplex mode (half/full) auto-detection
- Switch capacity up to 216Gbps
- 32K MAC address table
- 12K bytes jumbo frames
- 2x 480W power supply built in to provide max. 800W PoE power
- · 4x smart fans installed

Discover the ALLNET Smart Managed 48-Port Gigabit Switch - your ultimate solution for network performance enhancement and PoE provisioning!

With the ALLNET ALL-SG8454PM-10G Switch, you'll reach new heights in network performance and management. This intelligent, managed Gigabit switch comes equipped with 48 ports for lightning-fast connections and features 6 SFP+ Mini-GBIC slots, providing you with a total of 52 versatile connectivity options.

#### **Unmatched Speed and Flexibility:**

Our switch architecture offers an impressive non-blocking Gigabit connection. With support for the NWay protocol, you can automatically detect speeds of 10/100/1000Mbps and the desired duplex mode (half or full duplex), allowing for effortless adaptation.



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#### **Impressive Capacity and Management:**

This switch offers an astonishing capacity of up to 216Gbps, providing you with ample headroom for seamless data transfers and network activities. The integrated 32K MAC address table ensures your network runs smoothly, and support for 12K-byte jumbo frames further enhances efficiency.

#### **PoE Power and Cooling:**

Thanks to the 2 built-in 480W power supplies, you can deliver up to 800W of PoE power to effortlessly support your PoE-enabled devices. Additionally, the switch features 4 smart fans that ensure optimal cooling, keeping your network reliable even under heavy loads.

The ALLNET ALL-SG8454PM-10G is the perfect choice to take your network to the next level. Maximum performance, intelligent management, and top-notch PoE provisioning make this switch the ideal selection for businesses valuing peak performance and flexibility.

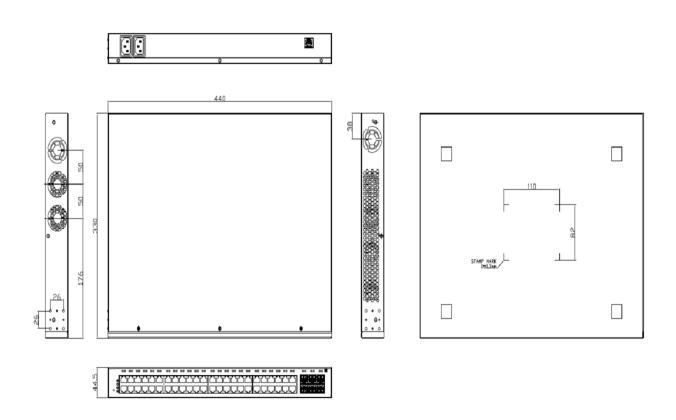
Invest in the future of your network with the ALLNET Smart Managed 48-Port Gigabit Switch - your gateway to modern network technology!

#### **Mechanical Drawings:**





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#### **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+
	Reset Button: reset to default setting, re-start system
	Console port by RJ45 type
PoE ports	Port# 1~ 48
	IEEE802.3at, IEEE802.3af
LED Define	PWR: Green LED
	<ul><li> Off: power off or fail</li><li> On: power on</li></ul>
	SYS: Green LED
	<ul><li>Off: power off or fail</li><li>On: system is ready</li><li>Blinking: system booting up</li></ul>
	Alert: Red LED
	<ul> <li>Off: Switch is normal condition</li> <li>On: Alarm for system failure because of overheat, wrong voltage.</li> </ul>
	PoE Max: Green LED
	<ul><li>Off: No over PoE max power Alert</li><li>On: Over PoE max power Alert</li></ul>
	1-48 Port LED:
	Link/ACT:
	<ul> <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>
	49-52 port LED:
	SFP+:
	- Off: disconnected or fail
	- Blue: 10Gbps connected



	- Green: 1000Mbps connected
	- Blinking: data transmitting
	PoE: Green LED
	<ul><li>Off: PoE power output off</li><li>Green on: PoE power output on</li></ul>
	Slide Switch: Swap Port LED & PoE LED display
HW feature	IEEE802.3 10BASE-T
	IEEE802.3u 100BASE-TX
	IEEE802.3ab 1000BASE-T
	IEEE802.3ae SFP+
	IEEE802.3az EEE
	MAC address Table: 32K
	Packet buffer size: 16Mbit
	Jumbo Frame: 12K bytes
	216Gbps switching capacity
	Forwarding rate: 129.3Mpps (64-byte package size)
Data Transfer Rate	Ethernet:10 Mbps (half duplex),20 Mbps (full duplex)
	Fast Ethernet:100 Mbps (half duplex),200 Mbps (full duplex)
	Giga Ethernet:2000 Mbps (full duplex)
	10 Gigabit Ethernet:20 Gbps (full duplex)
System Monitor	HW Monitor IC: ADT7476
	1. Voltage Monitor 1. Input Voltage: 12V (+/-7% Alarm Threshold) 2. I/O Voltage: 3.3V (+/- 5% Alarm Threshold) 3. DDR Voltage: 1.5V (+/- 5%



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	Alarm Threshold) 4. PHY Voltage: 1.1V (+/- 5% Alarm Threshold) 5. MAC Voltage:1.0V (+/- 5% Alarm Threshold) 2. Temperature Monitor 1. BOARD: 0~80°C 2. MAC: 0~85°C 3. PHY: 0~85°C		
Power Input	Internal power supply		
	Input: 90~264VAC/47~63Hz, Two AC connector		
PoE Power Budget	Output: 480WX2 800W		
PoE power pin-out			
PoE Output power capacity	Alternative A (Pin 1,2/3,6)		
	<ol> <li>Maximum output :30W per each port</li> <li>Compliant with IEEE802.3af/at standard, Following IEEE802.3at/at to support PoE or PoE+</li> <li>Automatically discover the connection of PD device and immediately sends power to it</li> <li>Auto disable port if the port current is over 700mA or short happens</li> <li>Priority can be configured and default setting is lower port NO. has high priority</li> <li>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>		
	Class Usage Minimum Power Levels Output at Levels at the the PSE 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		
	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
Reset button	Support reset to default configuration
Dimension	441(W) x 330(D) x 45(H) mm
FAN Design	Fan*4 (Smart Fan)
Temperature	Operating: 0 ~ 50?
	Storage : -40 ~ 70?
Humidity	Operating: 10% ~ 90% RH (non-condensing)
	Storage: 5% ~ 90% RH (non-condensing)

# **Software Specs:**

System Information		
Logging Message		
Port	Statistics	
	Error Disabled	
	Bandwidth Utilization	
Link Aggregation		
MAC Address Table	16K	
IP Address	Static / Dynamic	
System Time	SNTP / From Computer / Manual Time	
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	
Global Setting	Schedule Status	
Priority Setting		
Power Limit		
	Logging Message Port  Link Aggregation MAC Address Table IP Address System Time  Port Setting  Error Disabled  Link Aggregation  EEE Jumbo Frame Global Setting Priority Setting	Logging Message  Port  Statistics  Error Disabled  Bandwidth Utilization  Link Aggregation  MAC Address Table  IP Address  System Time  SNTP / From Computer / Manual Time  Port Setting  State / Speed / Duplex / Flow Control  Error Disabled  Recovery Interval  Link Aggregation  Group  Port Setting  LACP  EEE  Jumbo Frame  12K Byte  Global Setting  Statistics  Error Disabled  Bandwidth Utilization  Bandwidth Utilization  Group  Annual Time  Shate / Speed / Duplex / Flow Control  Error Disabled  Recovery Interval



Power Show		
VLAN	Create VLAN	
	VLAN Configuration	7
	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	
Dynamic Address	Aging Time	
Static Address		
Filtering Address		
Property	State / Operation Mode / Path Cost / BPDU Handling	Operation Mode : STP/RSTP/MSTP
Port Setting		
MST Instance		
MST Port Setting		
Statistics		
LLDP	Property	
	Port Setting	
	MED Network Policy	
	MED Port Setting	
	Packet View	
	Local Information	
	Neighbor	
	Statistics	
General	Property	Unknown Multicast Action
	VLAN  Voice VLAN  Protocol VLAN  MAC VLAN  Surveillance VLAN  GVRP  Dynamic Address  Static Address  Filtering Address  Property  Port Setting  MST Instance  MST Port Setting  Statistics	VLAN         Create VLAN           VLAN Configuration         Membership           Port Setting         Property           Voice VLAN         Property           Protocol Group         Group Binding           MAC VLAN         MAC Group           Group Binding         Group Binding           Surveillance VLAN         Property           GVRP         Property           Membership         Statistics           Dynamic Address         Aging Time           Static Address         Filtering Address           Property         State / Operation Mode / Path Cost / BPDU Handling           Port Setting         MST Instance           MST Port Setting         Statistics           LLDP         Property           Port Setting         MED Network Policy           MED Port Setting         Packet View           Local Information         Neighbor



		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 Coun / Query Time
		Port Setting	
		Group Address	
Security	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	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	
ACL	MAC ACL		
	MAC ACE		
	IPv4 ACL		
	IPv4 ACE		
	IPv6 ACL		
	IPv6 ACE		
	ACL Binding		
QoS	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	
Diagnostics	Logging	Property	Console / RAM / Flash
		Remote Server	
	Mirroring		
	Ping		
	Traceroute		
	Copper Test		
	Fiber Module		
	UDLD	Property	Message Time
		Neighbor	
Management	User Account		
1		1	



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	
RMON	Statistics		
	History		
	Event		
	Alarm		

# **Attributes**

Attribute	Value
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;
Weight:	6 Kg
Warranty:	24.00 Months



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# **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
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 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
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,