

ALLNET Switch smart managed Layer2 54 Port • 48x Port 1 GbE • 6x SFP+ • 19" • ALL-SG8454M-10G

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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 176Gbps
- 32K MAC address table
- Packet buffer size: 16Mbit
- 12K bytes jumbo frames
- Forwarding rate: 129.3Mpps (64 byte packet size)
- Supports Web UI for configuration
- Supports console port with CLI command
- Supports HW monitor alarm

Are you in need of a powerful network switch that fulfills all your requirements? Look no further! Our 48-Port Gigabit Switch with 6 additional SFP+ Mini-GBIC Slots is the perfect solution for you. Here are some of the impressive specifications this device has to offer:

Maximum Connectivity: With a total of 52 ports, including 48 Gigabit Ethernet ports and 6 SFP+ Mini-GBIC Slots, you're well-equipped to efficiently manage your network.

Intelligent Speed and Duplex Mode: The switch supports the NWay protocol, enabling automatic speed and



duplex mode detection (10/100/1000Mbps, half/full), so you don't have to worry about manual configuration.

High Capacity: With an impressive switch capacity of up to 176 Gbps, this switch can handle even the most demanding applications and data transfers.

Large MAC Address Table: With a 32K MAC address table, this switch provides ample space for managing your network devices.

Jumbo Frames: For transferring large amounts of data, 12K-byte jumbo frames are available, enhancing your network performance efficiency.

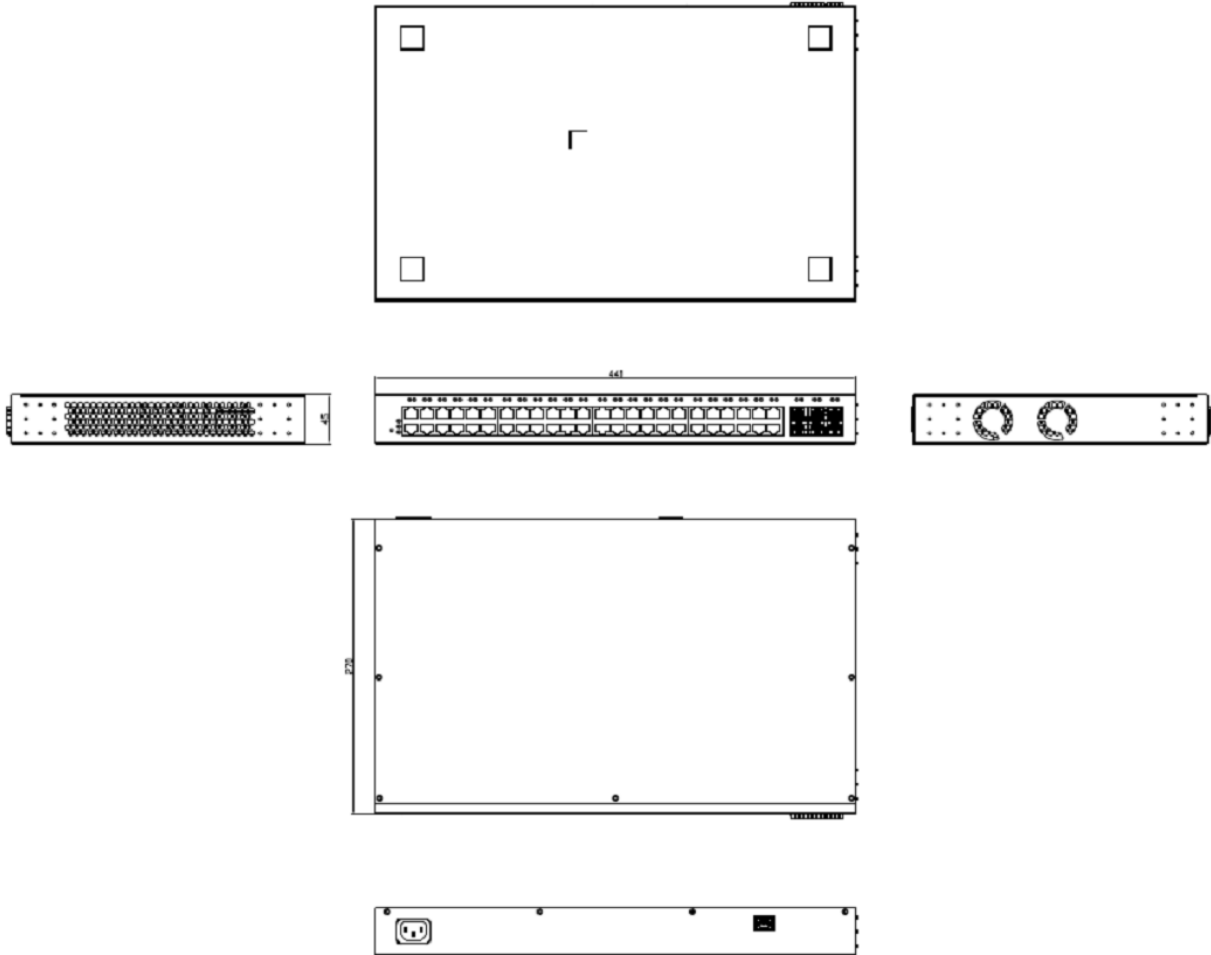
Easy Configuration: With support for a web interface (Web UI), you can easily configure and tailor the switch to your needs.

Management Flexibility: The switch supports a console connection with CLI commands, giving advanced users full control over configuration.

Reliable Monitoring: With HW Monitor Alarms support, you'll be promptly alerted to any hardware issues, minimizing downtime.

Rely on our network technology to make your communication seamless and efficient. This switch provides the power and reliability your network requires. Experience the future of connectivity with our 48-Port Gigabit Switch.

Technical Drawings:



Technical Details:

Hardware Specs:

Items	Specifications
Model No.	ALL-SG8454M-10G
Key Components	1. RTL9311M+RTL8218Dx6 2. Flash IC: MXIC 64 Byte 3. DDR: 4G bits
I/O ports	48x GbE ports, RJ45 6 x 10G ports, SFP+ Reset Button: reset to default setting, re-start system



<p>LED Define</p>	<p>Console port by RJ45 type</p> <p>PWR: Green LED</p> <ul style="list-style-type: none"> • Off: power off or fail • On: power on <p>SYS: Green LED</p> <ul style="list-style-type: none"> • Off: power off or fail • On: system is ready • Blinking: system booting up <p>Alert: Red LED</p> <ul style="list-style-type: none"> • Off: Switch is normal condition • On: Alarm for system failure because of overheat, wrong voltage. <p>1-48 Port LED:</p> <p>Link/ACT:</p> <ul style="list-style-type: none"> • Off: port disconnected or link fail • Green on: 1000Mbps connected • Amber on: 10/100Mbps connected • Blinking: sending or receiving data <p>49-52 port LED:</p> <p>SFP+:</p> <ul style="list-style-type: none"> - Off: disconnected or fail - Blue: 10Gbps connected - Green: 1000Mbps connected - Blinking: data transmitting
<p>HW feature</p>	<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>176Gbps switching capacity</p> <p>Forwarding rate: 129.3Mpps (64-byte package size)</p>
Data Transfer Rate	<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>
System Monitor	<p>HW Monitor IC: ADT7463</p> <p>1. Voltage Monitor</p> <p>1. Input Voltage: 12V (+/-7% Alarm Threshold)</p> <p>2. I/O Voltage: 3.3V (+/- 5% Alarm Threshold)</p> <p>3. DDR Voltage: 1.5V (+/- 5% Alarm Threshold)</p> <p>4. PHY Voltage: 1.1V (+/- 5% Alarm Threshold)</p> <p>5. MAC Voltage:1.0V (+/- 5% Alarm Threshold)</p> <p>2. Temperature Monitor</p> <p>1. BOARD: 0~80°C</p> <p>2. MAC: 0~85°C</p> <p>3. PHY: 0~85°C</p>
Power Input	<p>Internal power supply</p> <p>Input: 90~264VAC/47~63Hz</p> <p>Output: 12V/6A</p>
Reset button	Support reset to default configuration
Dimension	441(W) x 270(D) x 45(H) mm



FAN Design	Reserve One Fan
Temperature	Operating: 0 ~ 40? Storage : -40 ~ 70?
Humidity	Operating: 10% ~ 90% RH (non-condensing) Storage: 5% ~ 90% RH (non-condensing)

Software Specs:

Status	System Information			
	Logging Message			
	Port	Statistics		
		Error Disabled		
		Bandwidth Utilization		
	Link Aggregation			
	MAC Address Table	16K		
Network	IP Address	Static / Dynamic		
	System Time	SNTP / From Computer / Manual Time		
Port	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			
PoE	Global Setting	Schedule Status		
	Priority Setting			
	Power Limit			
	Power Show			
VLAN	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			
MAC Address Table	Dynamic Address	Aging Time	
	Static Address		
	Filtering Address		
Spanning Tree	Property	State / Operation Mode / Path Cost / BPDU Handling	Operation Mode : STP/RSTP/MSTP
	Port Setting		
	MST Instance		
	MST Port Setting		
	Statistics		
Discovery	LLDP	Property	
		Port Setting	
		MED Network Policy	
		MED Port Setting	
		Packet View	
		Local Information	
		Neighbor	
		Statistics	
Multicast	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	
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		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		
	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	
	RMON	Statistics	
History			
Event			
Alarm			

Attributes

Attribute	Value
Anzahl Ports PoE/LAN:	0/48
Belüftung Switch:	Mit Lüfter
Einsatzort Switch:	19"
LAN Geschwindigkeit:	1Gbit/s
Management:	smart managed (WebGui)
SFP Geschwindigkeit:	SFP+ 10Gbit;
Weight:	4.97 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
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,