





ALLNET ALL-SG8428PM

24 port gigabit copper PoE + 4x SFP smart-managed

- 24 Port gigabit non-blocking switch architecture
- supports NWay protocol (10/100/1000Mbps) and duplex mode (half/full) auto detection
- supports back-pressure (half duplex), flow control (IEEE 802.3x and IEEE 802.3az Energy Efficient Ethernet)
- VLAN: port based / tagged based
- Link aggregation (IEEE802.3ad LACP)
- IGMP snooping (v1/v2)
- QoS (port based, Flow, 802.1p, IP-TOS, IP DSCP)
- Stormcontrol (broadcast, multicast, unicast)
- 390W PoE budget supports PoE IEEE802.3af/at PSE-Devices
- 2x internal fans, which can be exchanged via Hot-Swap

Art.Nr.: 139327





The new ALLNET ALL-SG8428PM switch is the perfect product for the SMB market with a high network and data volume and enables a fast data transmission within the network. With a total of 24 backwards compatible gigabit ports, the integrated servers and PCs will be connected in a reliable and powerful way. The ALL-SG8428PM can forward a maximum PoE power budget of 390W to the connected devices via the internatl 450W power supply.

The 24 gigabit PoE ports support the PoE standards IEEE802.3af and IEEE802.3at. The switch provides two laterally installed fans, which can be exchanged if they are broken by just loosening the two screws - this opportunity is called hot-swap. The robust metal housing is suitable for a 19" installation as well as wall mounting.

Specifications

Element	Specification				
Standards	IEEE802.3 10BASE-T				
	IEEE802.3u 100BASE-TX				
	IEEE802.3ab 1000BASE-T				
	IEEE802.3az EEE (Energy efficient Ethernet)				
	IEEE 802.3af,Power Over Ethernet				
	IEEE 802.3at,Power Over Ethernet Plus				
	IEEE 802.3ad, Link Aggregation				
	IEEE 802.3x, Ethernet flow control				
	IEEE 802.1AB-2005,LLDP(Link Layer Discovery Protocol)				
	IEEE 802.1d, Spanning Tree Protocol				
	IEEE 802.1w, Rapid Spanning Tree Protocol				
	IEEE 802.1q, VLAN				
	IEEE 802.1p,QoS IEEE 802.1x				
LINA/ Foot and					
HW Features	Switch Capacity: 52Gbit/s bi-direction				
	Forwarding Mode: Store and Forward MAC address table: 8K				
	Packet buffer size: 1M bit				
	Jumbo frame: 9K bytes				
I/O Ports	24x GbE Ports, RJ45 4x GbE Combo Ports, RJ45 + SFP				
PoE Ports	Port 1~ 24 IEEE802.3at, IEEE802.3af				
	PoE power budget: 390W for 450W power supply				
Link Aggregation	Max 8 aggregation groups, each support 8 ports				
	Static aggregation and dynamic aggregation				





Element	Spezifikation					
VLAN	4K VLANs					
	Port based VLANs Voice VLAN					
Spanning Tree	STP (Spanning Tree Protocol)					
	RSTP (Rapid Spanning Tree Protocol)					
Port Mirroring	Many-to-one Port Mirroring					
QoS	Rate limiting on packets sent and received by an interface					
	Eight queues on each port					
	WRR, SP, WRR+SP queue scheduling algorithms					
	Re-marking of the 802.1p priority and DSCP priority					
	Rate limiting in each queue and traffic shaping on ports					
Power input	Internal power supply					
	Input: 100-240V AC					
	E-cap live time >3 years @ 40°C					
LED Bedeutung	SYS: Green LED					
	Off: power off or fail					
	On: power on					
	Blinking: system booting up PoE Max.:Green LED					
	Off: No over PoE max power budget (390W) On: Over PoE max power budget (390W)					
	24 RJ45 Port LED: one bi-color LEDs on daughter board					
	Link/ACT: Green/Amber					
	Off: port disconnected or link fail					
	Green on: 1000Mbps connected					
	Amber on: 10/100Mbps connected					
	Blinking: sending or receiving data					
	PoE: Green LED					
	Off: PoE power output off					
	Green on: PoE power output on					
	Blinking: PoE power output over >30W (No Powering)					
	4 Combo port LED: RJ45: one bi-color LEDs on daughter board					
	Off: disconnected or fail					
	Green: 1000Mbps connected					
	Amber: 10/100Mbps connected					
	Blinking: data transmitting					
	SFP: one LEDs on daughter board					
	Off: disconnected or fail					
	Green: 1000Mbps connected					
	Blinking: data transmitting					





Element	Spezifi	kation				
PoE Output power capacity	Maximum output: 30W per each port Compliant with IEEE802.3af/at standard, following IEEE802.3a and IEEE802.3at Standard to support PoE or PoE+. Automatically discover the connection of PD device and immediately sends power to it. Auto disable port if the port current is over 700mA or short happens. Priority can be configured and default setting is lower port No. has hight priority 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.					
	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	0,4 to 3,84W		
	2	Optional	7,0W	3,84 to 6,49W		
	3	Optional	15,4W	6,49 to 12,95W		
	4	Optional	30W	12,95 to 25,5W		
PoE	Follow the standard PSE pin-out standard of Alternative A (MDI-X) which is sending out power over number 1,2,3,6 pins of 8 wires of Ethernet CAT5 UTP cable. PoE scheduling PoE port priority Power limit per port PoE On/Off					
Power Adapter	450W p	ower supp	ly			
Reset button			efault config			
Network		Support IPv6 System time (SNTP, manually, from computer)				
Traffic Management and QoS	Port based VLAN IEEE 802.1Q VLAN tagging IEEE 802.3ad LACP Storm control IEEE 802.1p priority queues per port IEEE 802.1p queuing method (scheduler) Input priority mapping Rate limiting per port (ingress/egress) IEEE 802.3x flow control					





Element	Spezifikation
Class of Service (CoS)	IEEE 802.1p Class of Service (SPQ, WRR)
	Port based CoS
	IP TOS priority
	802.1p VLAN information based CoS
	DSCP based CoS
	TCP/UDP based CoS
PoE Control	Port On/Off
	Port priority
	Power limiting (watt) per port
	Scheduling
Security	IEEE 802.1x
	Port security
	Port isolation
	IP filter
	DoS attack defense, ARP attack defense, and ICMP attack defense
	Loop prevention
	STP (IEEE 802.1d)
	User privilege management and password protection
	RADIUS
	TACACS+
	AAA
Layer 2 Multicast	Layer 2 Multicast
Management and mainteanance	SNMP v1/v2c
	SNMP trap event
	Remote configuration and mainteanance using Telnet
	Web NMS
	System logs and alarms in different levels
	Supports HTTPS, TELNET, SSH
IPv6	IPv6 over Ethernet (RFC 2464)
	Dual-Stack (RFC 4213)
	ICMPv6 (RFC 4884)
	Neighbor discovery (RFC 4861)
	Auto configuration
	Static IPv6 address and prefix length
	Static IPv6 default gateway
	IPv6 duplicate address detection
Network management	LLDP (IEEE 802.1ab)
	cable test
	ICMP echo/echo reply (Ping)
	Port mirror





Element	Spezifikation			
System management	Firmware upgrade			
	Configuration back up & restore			
Safety	CE, LVD			
	EN60950-1			
EMC	FCC Part15			
	CE Class A			
Dimension	441 mm x 270mm x 45mm			
FAN design	Fan*2 with Fan Tray "Hot-Swapable changeable"			
Operation temperature	0 ~ 40°C			
	Storage: -40 ~ 70°C			
Operation humidity	10% ~ 90% RH (non-condensing)			
	Storage: 5% ~ 90% RH (non-condensing)			