

ALLNET Switch full managed Layer2+ 26 Port • 24x GbE • PoE Budget 370W • 22x PoE at • 2x Combo • 2x SFP • 19" • Fanless • JSON API • ALL-SG8626PMJ

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Cost-effective 24 port Smart Managed Gigabit Layer-2 switch +4x SFP MiniGbic slots without fan for desktop and 19" rack installation

Highlights:

- 24 port Gigabit Layer2+ switch architecture
- Port 23/24 combo ports for TP or SFP (1G) and port 25/26 SFP (1G) slots
- Supports various PoE management functions, including PoE shedule, PoE PD-Alive, etc.
- Supports SFP DDM & cable diagnostics
- Supports G.8032 ERPS, self-detection time < 20 ms
- Supports 1588 V2.0, transparent clock
- Supports port aggregation
- 4KV & overvoltage protection, 6KV contact/8KV air ESD protection
- Totally fanless, no more annoying noises... max. 390W budget
- 19"inch bracket or wall/table mounting possible

The new ALLNET ALL-SG8626PMJ switch provides an optimal basis for small and medium-sized workgroups with high network and data traffic and enables fast data transmission in the network. With a total of 22 backward-compatible Gigabit PoE ports, the connected PoE end devices are reliably and powerfully interconnected.



The ALL-SG8626PMJ is also ideal for use in office environments thanks to its fanless design, as no disturbing noise is generated. The switch is Layer 2+ fully managed and therefore supports all necessary standards such as QoS, VLAN, Spanning Tree, IGMP Snooping and Link Layer Discovery Protocol. This ensures the highest level of performance and security in your network.

The robust metal housing is suitable for mounting in a 19" cabinet as well as for wall mounting. ALL-SG8626PMJ also has 2x SFP miniGBIC slots to connect even remote server/uplink end devices via fibre optic cable.

ALL-SG8626PMJ is a Layer 2+ Full Managed Switch PoE, which provides 24*10/100/1000M RJ45 ports and 4*1G uplink SFP slot ports (2 shared combo), with 24 port PoE with IEEE802.3 af/at standards, single port POE power output up to 30W.

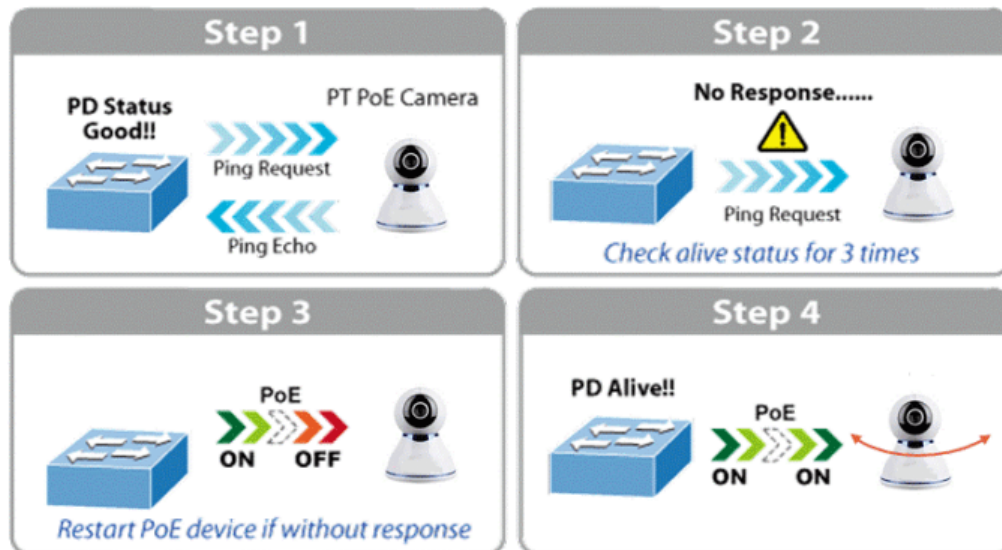
Extensive PoE management function

As a managed PoE switch for CCTV surveillance, wireless and VoIP networks, the ALL-SG8626PMJ has the following special PoE management functions:

- PoE PD alive check
- Timed rebooting of the power supply
- PoE schedule
- Monitoring of PoE utilisation
- Soft reboot PoE non-stop
- Prioritisation of the PoE port feed-in

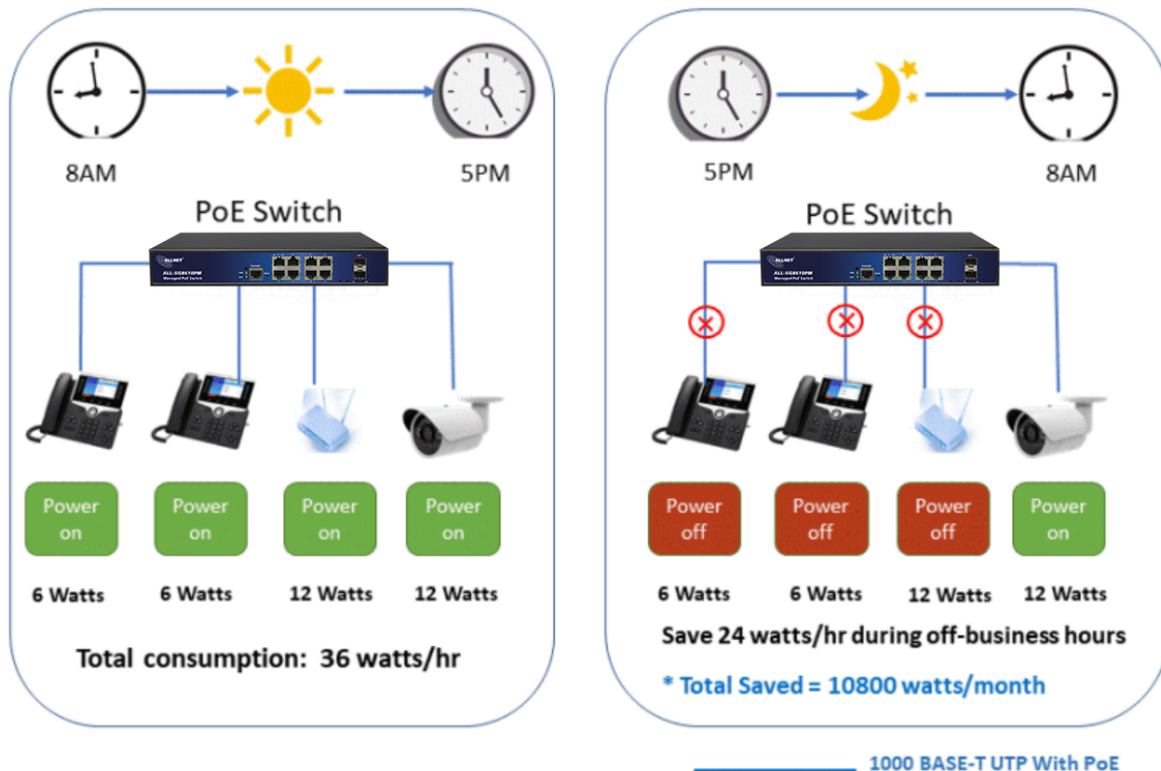
Intelligent PD alive check for frozen PDs

The ALL-SG8626PMJ industrial PoE switch with 24 ports can be configured to monitor the status of the connected PDs in real time. As soon as the PD stops working and responding, the ALL-SG8626PMJ restarts the power supply to the PoE port and gets the PD up and running again. In addition, reliability is significantly improved by the fact that the PoE port resets the PD power supply, reducing the administrative burden on the administrator.



PoE schedule function for energy saving

To protect the environment, the ALL-SG8626PMJ Ethernet PoE switch can effectively control the power supply in addition to its ability to deliver high wattage. The PoE schedule function helps to enable or disable the PoE power supply for each PoE port during specific time intervals and is a powerful feature that helps SMEs or enterprises to save power and money.



Planned PD restart

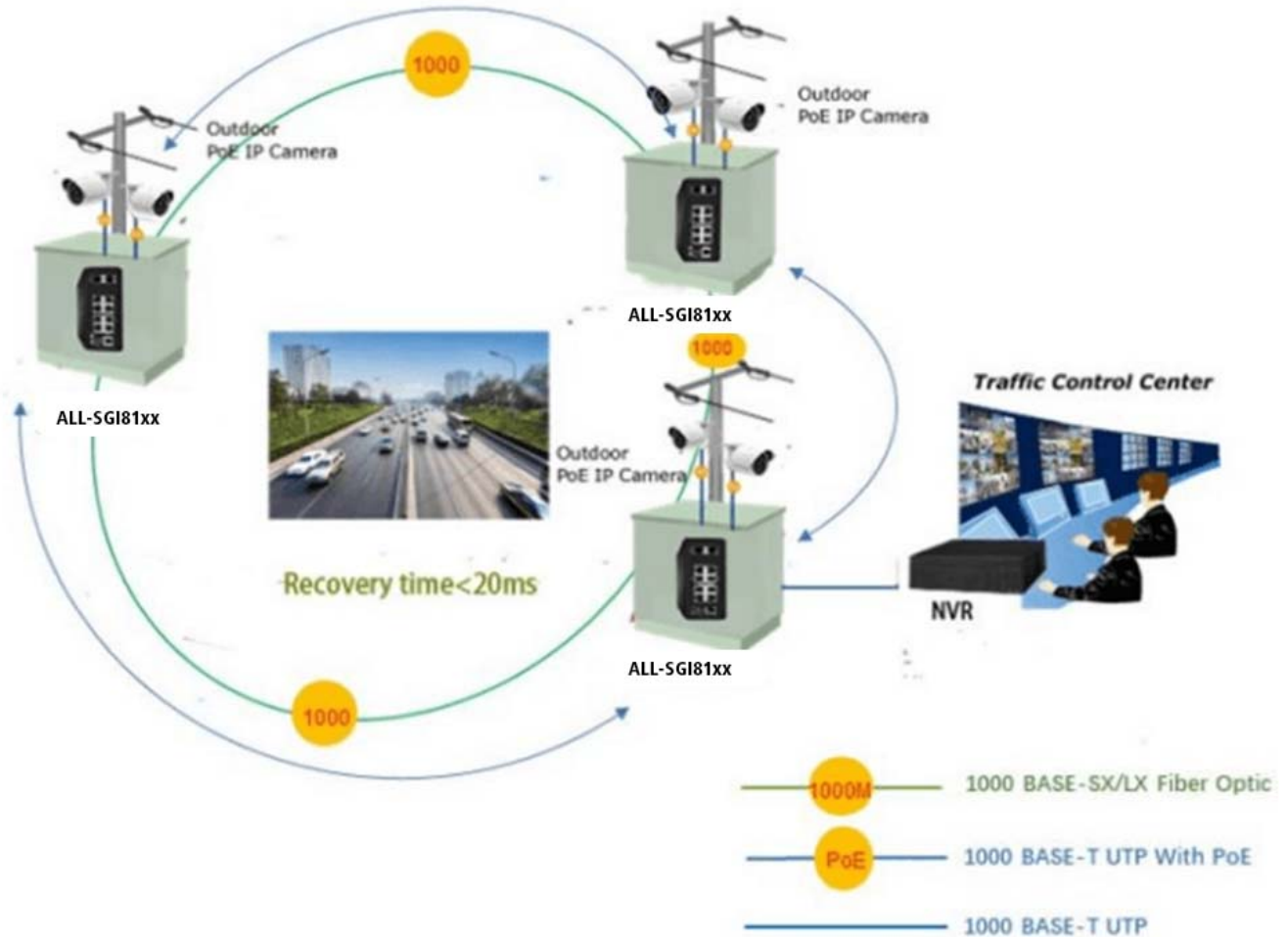
The ALL-SG8626PMJ intelligent PoE switch allows each of the connected PoE IP cameras or PoE wireless access points to be restarted at a specific time every week. This reduces the risk of the IP camera or AP crashing due to a buffer overflow.



Redundant ring with fast recovery for critical network applications

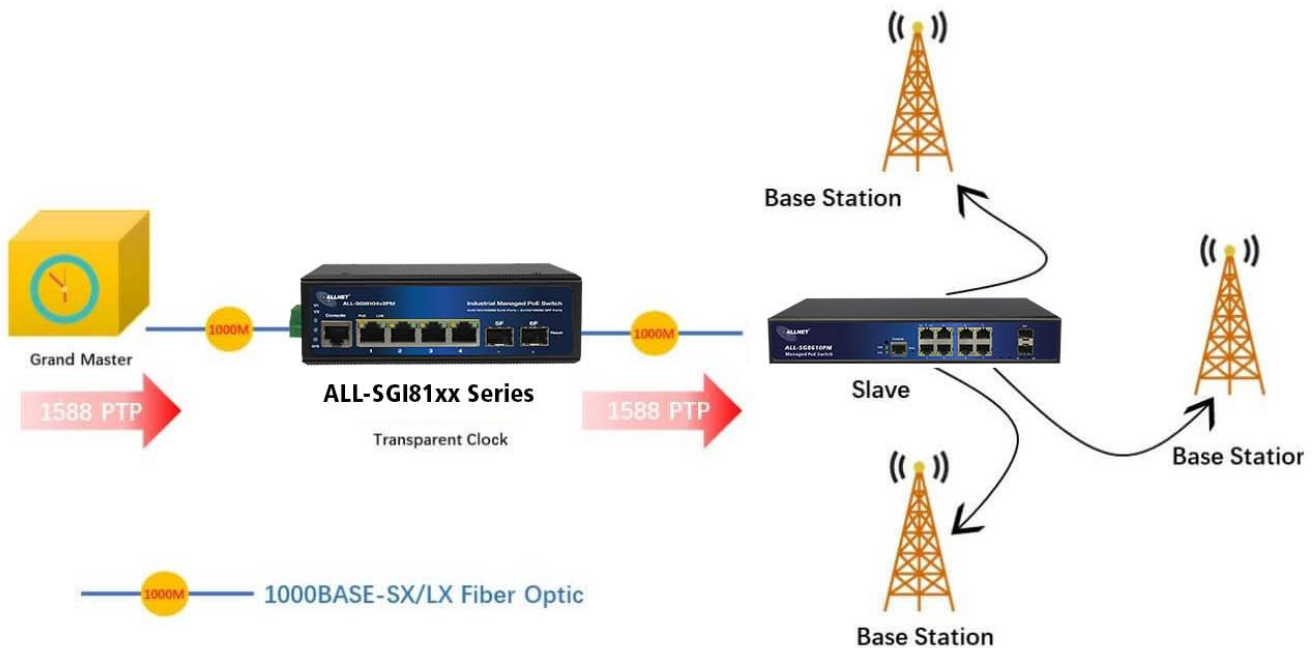
The ALL-SG8626PMJ supports redundant ring technology and has a strong, fast self-recovery capability to prevent interruptions and external intrusions. It integrates advanced ITU-T G.8032 ERPS technology, Spanning Tree Protocol (802.1s MSTP) and a redundant power supply system into the customer's industrial automation network to improve system reliability and uptime in harsh factory environments. In a given simple ring network, the data link recovery time can be as fast as 20 ms.

ERPS Ring for Video Transmission Redundancy



1588 time protocol for industrial computer networks

The ALL-SG8626PMJ is ideal for telecom and carrier Ethernet applications and supports MEF service provisioning and timing-over-packet solutions for IEEE 1588 and synchronous Ether



Strong layer 2 functions

The ALL-SG8626PMJ Layer 2 Ethernet switch can be programmed for advanced Layer 2 switch management functions such as dynamic port link aggregation, 802.1Q tagged VLAN, Q-in-Q VLAN, private VLAN, Multiple Spanning Tree Protocol (MSTP), QoS, bandwidth control, IGMP snooping and MLD snooping. By aggregating the supporting ports, the ALL-SG8626PMJ enables the operation of a high-speed trunk group that has multiple ports and also supports fail-over.

Efficient and versatile management methods

For efficient management, the ALL-SG8626PMJ is equipped with console, web and SNMP management interfaces.

With the integrated web-based management interface, it offers a user-friendly, platform-independent management and configuration option.

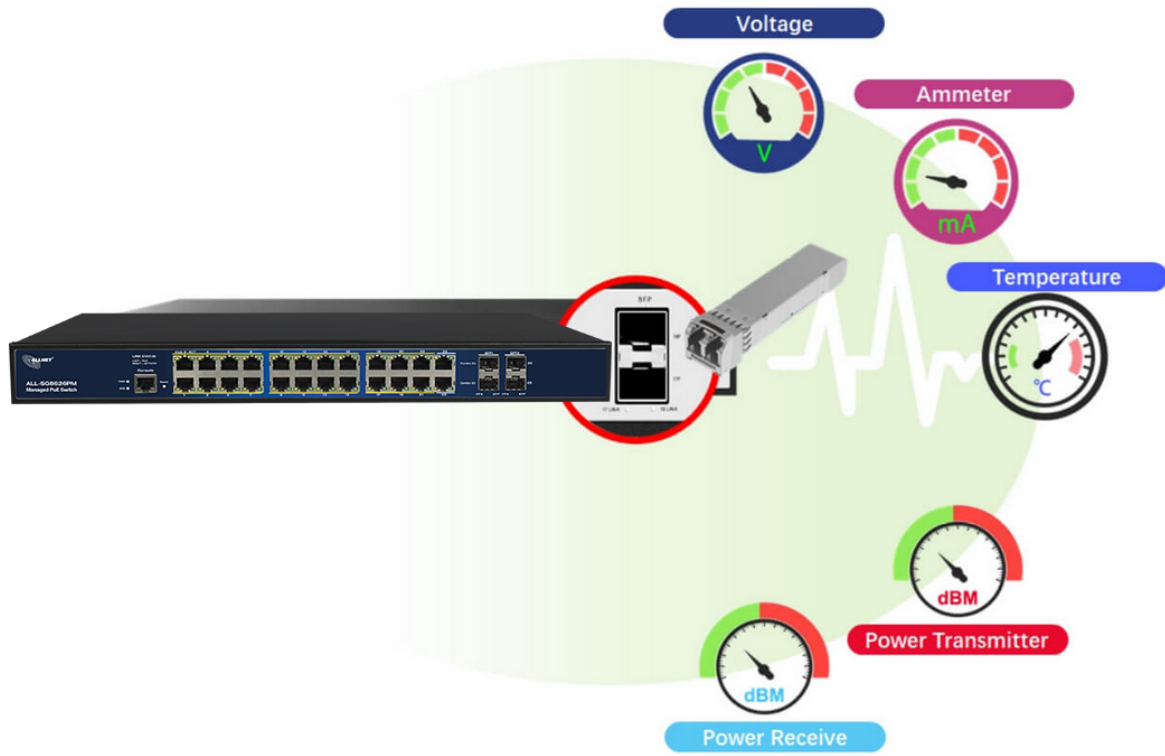
For text-based management, access is possible via Telnet and the console port.

For standards-based monitoring and management software, it provides an SNMPv3 connection that encrypts the packet contents for secure remote management during each session.

Intelligent PoE switch with SFP DDM function

The ALL-SG8626PMJ supports the SFP DDM (Digital Diagnostic Monitor) function, which allows the network administrator to easily monitor real-time parameters of the SFP transceivers, such as optical output power, optical input power, temperature, laser bias voltage and transceiver supply voltage.

Digital Diagnostic Monitor (DDM)



JSON-Java Script Object Notation API

With the JSON API, the ADMIN can create a special user and grant this user authorisation for JSON. We have focussed on 2 functions that we consider important.

- PoE ON/OFF & LAN Port Enabled/Disabled (for switches with PoE function)
- LAN Port Enabled/Disabled (for switches without PoE)



Part No.: 221186
Vendor Part No.: ALL-SG8626PMJ

JSON Examples



ALLNET JSON API (json output, switching with json response)



It will ONLY be switched, NO-sensor values read!

Valid for ALLNET PoE switch ALL-SG8826PMX-10G, ALL-SG8950PM, ALL-SG8926PM.
New additions from 2024: All ALL-SG86xx and ALL-SG81xx with the suffix "J" for JSON in the name.

In this description used Device IP is "192.168.0.100".
This must be replaced by the assigned address.

Description without Activated Basic authentication. If this is enable, you must pass the Authentication in URL.
(Basic Authentication: <https://192.168.0.100/xml/json.php>)

Call "<https://192.168.0.100/xml/json.php>".

Parameter

„id={id}“ Number or name of the switching sensor / actuator
„set={0/1/toggle}“ Switch actuator off or on
„callback={object}“ (optional) Values are returned as JSON object

ALLNET GmbH

JSON	Rohdaten	Kopfzeilen
Speichern Kopieren Alle einklappen Alle ausklappen JSON durchsuchen		
0:		
id:	"1"	
name:	"Port 1"	
unit:	"--"	
type:	"1"	
value:	"0"	
error:	0	
1:		
id:	"2"	
name:	"Port 2"	
unit:	"--"	
type:	"1"	
value:	"0"	
error:	0	
2:		
id:	"3"	
name:	"Port 3"	
unit:	"--"	
type:	"1"	
value:	"0"	
error:	0	
3:		
id:	"4"	
name:	"Port 4"	
unit:	"--"	
type:	"1"	
value:	"0"	
error:	0	
4:		
id:	"5"	
name:	"Port 5"	
unit:	"--"	
type:	"1"	
value:	"0"	
error:	0	
5:		
id:	"6"	
name:	"Port 6"	
unit:	"--"	
type:	"1"	
value:	"0"	
error:	0	
6:		
id:	"7"	
name:	"Port 7"	
unit:	"--"	
type:	"1"	
value:	"0"	
error:	0	
7:		
id:	"8"	
name:	"Port 8"	
unit:	"--"	
type:	"1"	
value:	"0"	
error:	0	



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Param

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„id={i  
„set={  
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Technical data:

Model	ALL-SG8626PMJ
Copper Ports	22-10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
Combo interfaces	2x 100/1000BASE-X SFP interface shared with port-23 and port-24; Supports 100/1000Mbps dual mode and DDM
Fibre ports	2-100/1000BASE-X SFP interfaces, supports 100/1000Mbps dual mode
PoE ports	1~24-802.3af/802.3at PoE Injector Ports
Console ports	1 x RS-232-to-RJ45 serial port (115200, 8, N, 1)
Switch architecture	Store-and-Forward
Switch Fabric	52 Gbps/non-blocking
Throughput	38.69Mpps @64 bytes
Address Table	8K entries
Share Data Buffer	4 Mb
Jumbo Frame	9600 bytes
SDRAM	1Gb
Flash memory	128Mb
Flow control	IEEE 802.3x pause frame for full-duplex Back pressure for half-duplex
Reset button	>2 sec: Factory default and reset
Power Supply	100~240V AC, 50/60Hz, 4A (max.)
Power consumption	Max. 400 watts/1122 BTU
PoE standards	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE
PoE power supply type	Per port 52V DC, 300mA. Max. 15.4 watts (IEEE 802.3af) Per port 52V DC, 600mA. Max. 30 watts (IEEE 802.3at)
LED indicators	Power: Green Solid on- power work normal, off- power disconnected System: Green Blink -work normally, solid on- soft work abnormal, fast Blink – soft upgrade

	<p>PoE: Yellow</p> <p>Solid on- PoE work normally, Off- PoE doesn't work, Blink - PoE overload</p> <p>10/100/1000T RJ45 interfaces (Port 1 to Port 24): 1000 LNK/ACT (Green) Blink - port connected with data transmission; Solid on- port connected without data transmission</p> <p>100/1000Mbps SFP Interfaces (Port 22 to Port 24): Green</p> <p>Blink - port connected with data transmission; Solid on- port connected without data transmission</p>
EMC	<p>Surge Immunity:</p> <p>4KV Per: IEC61000-4-5</p> <p>ESD Protection:</p> <p>ESD Level 4 Per: IEC61000-4-2</p> <p>EFT Level 4 Per: IEC61000-4-4</p>
Layer2 Functions	
Port configuration	<p>Auto-negotiation</p> <p>Flow control</p> <p>Port Mirror: TX/RX/BOTH; Many-to-1 monitor</p> <p>CPU Mirror</p> <p>Traffic statistics</p>
Link aggregation	<p>Static link aggregation</p> <p>LACP (Dynamic Trunk/Static Trunk)</p> <p>Algorithm based on Source/Destination MAC</p> <p>Algorithm based on Source/Destination IP</p>
MAC Table	<p>Aging Time</p> <p>Static MAC address</p> <p>Dynamic MAC address management</p>
VLAN	4094 Active VLANs

	4094 VID 802.1Q Tag VLAN Port VLAN Protocol VLAN MAC VLAN Voice VLAN 802.1ad Q-in-Q tunnelling Private VLAN (Protected port) GARP/GVRP
ACL	256ACLs L2, L3 e L4 Time-based ACL IP ACL MAC ACL MAC-IP ACL User-Defined ACL ICMPv6
Spanning tree	802.1D Spanning Tree Protocol (STP) 802.1w Rapid Spanning Tree Protocol (RSTP) 802.1s Multiple Spanning Tree Protocol (MSTP) Loop Guard Root Guard TC-BPDU Guard BPDU Guard BPDU Filter
Ring Protection	<20ms G.8032 ERPS Ring

	Fast Ring
Multicast	256 groups IGMP v1/v2/v3 Snooping, Fast Leave MLD Snooping Multicast VLAN IGMP filter MVR Multicast routing
QOS	8 mapping IDs to 8 level priority queues CoS port-based CoS 802.1p-based CoS DSCP-based Scheduling algorithms SP, WRR, SP+WRR Storm Control (Broadcast, Multicast, Unknown Unicast) Bandwidth control per port SWRR, DWRR for Scheduling Flow Redirect Precedence TOS Rate limiting (Ingress/Egress) Stri Priority
Security features	Port Security MAC address filter ARP Association (Manual, ARP scanning, DHCP snooping) ARP protection

	AAA DAI DoS (Denial of Service) Classification of packages based on: End.MAC, IP End, TCP / UDP Ports, Protocol Type; 802.1x Authentication (port-based e MAC-based) TACACS/TACACS+ Authentication RADIUS Authentication DHCP Filter Guest VLAN SSLv2/SSLv3/TLSv1 SSHv1/SSHv2 Restriction of WEB access based on: IP Address, And. MAC and Port; Port Isolation Loopback detection
Management	SNMP v1/v2c/v3 with Full Private MIBs RMON 4 groups WEB (HTTP/HTTPS) CLI (Telnet, Console, SSHv1/v2) Firmware upgrade via console/web/TFTP Configuration backup/reload Dual firmware LLDP Configuration export/import CDP Aware

	OAM (IEEE802.3ah) CFM (IEEE802.1ag) sFlow
Synchronisation, IEEE1588	Support IEEE1588v2 transparent clock
Other features	DNS Client DHCP Relay DHCP Client DHCP Snooping DHCP Option 66 DHCP option 67 DHCP option 82 NTP/SNTP client UPNP UDLD
PoE management	Total PoE power budget control Per port PoE function enable/disable PoE admin-mode control PoE port power feeding priority Per PoE port power limitation PD classification detection PD alive check PoE schedule Soft-reboot PoE non-stop
Maintenance	Cable Diagnostics Ping SFP DDM (Digital Diagnostics Monitoring)

	Thermal protection System log (Local and Remote) Memory and CPU Monitoring
Layer 3 functions	
Static routing	IPv4 Unicast: Static Routing(Software Base) IPv6 Unicast: Static Routing(Software Base)
IPV6	IPv6 neighbour discovery (ND) Path maximum transmission unit (MTU) discovery Internet Control Message Protocol (ICMP) version 6 TCPv6/UDPv6 Ping6 Telnet(v6) Http/Https Interface IPV6 ACL IPV6
Dimension	440x290x44.5 mm
Weight	4.5 kg
Working temperature	-10 °C to 45 °C
Storage Temperature	-20 °C to 70 °C
MTBF	50,000hrs

Attributes

Attribute	Value
Anzahl Ports PoE/LAN:	24/0
Belüftung Switch:	Lüfterlos
Einsatzort Switch:	19"
Extra Features:	JSON-PoE-API;
LAN Geschwindigkeit:	1Gbit/s



Part No.: 221186
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Attribute	Value
Management:	full managed
PoE Budget:	<500 Watt
PoE Port Leistung:	30W at
SFP Geschwindigkeit:	SFP 1GBit
Weight:	4.5 Kg
Warranty:	24.00 Months

Accessories

Part No.	Name
234699	ALLNET Switch full managed Layer2+ zbh. Replacement bracket for ALL-SGxx 18/26/28/54 - Short version