

ALLNET Switch full managed Layer2+ 24 Port • 24x GbE • PoE Budget 370W • 24x PoE at • 4x SFP+ • 19" • JSON API • ALL-SG8628PMJ-10G

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Highlights:

- 24 port Gigabit Layer2+ switch architecture (ports 1~24)
- 4 ports SFP+ 10G slots for optional GBICs compatible (ports 25~28)
- 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
- max. 370W PoE budget
- 19"inch bracket or wall/table mounting possible

ALL-SG8628PMJ-10G is an L2+ managed switch with 24 Gigabit Ethernet ports and 4 1G/10G dual speed SFP ports. The 24 Ethernet ports support IEEE802.3.af/at PoE output, can work with PoE PD devices such as IP cameras, wireless AP, doorbell, etc. With the advanced L2+ management function, it is easy to set up to meet the technical requirements of the project. It is an ideal solution for CCTV surveillance, wireless coverage and other SMB applications.

Extensive PoE management function

As a managed PoE switch for CCTV surveillance, wireless and VoIP networks, the ALL-SG8628PMJ-10G has the following special PoE management functions:

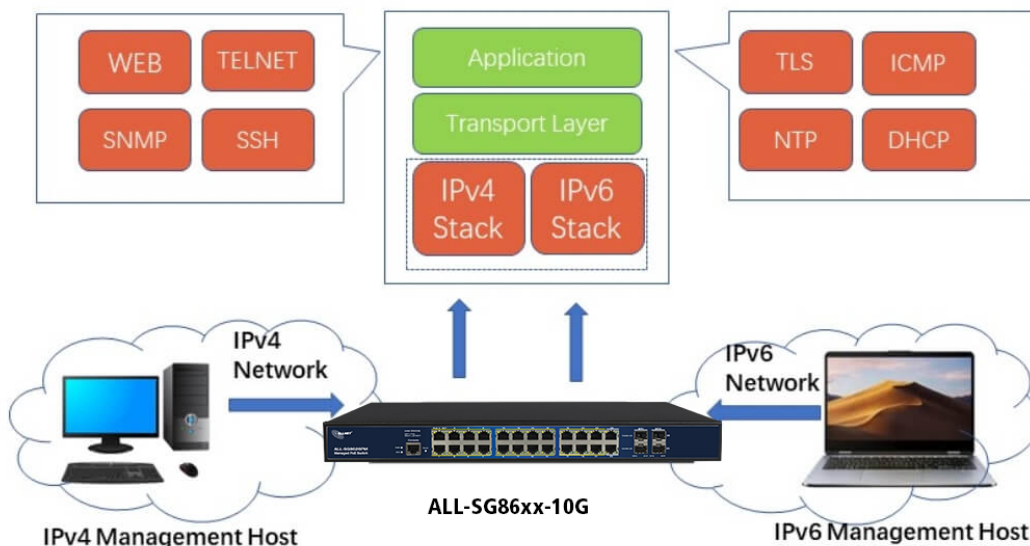
- PoE PD alive check
- Timed rebooting of the power supply
- PoE schedule
- Monitoring of PoE utilisation
- Soft reboot PoE non-stop
- Prioritisation of the PoE port feed-in

10Gbps uplink capacity for high bandwidth applications

10G Ethernet is a major leap forward in the development of Ethernet. The 10G SFP+ slots support dual-speed 10GBASE-SR/LR or 1000BASE-SX/LX, which means that the administrator can now flexibly select the appropriate SFP/SFP+ transceiver depending on the transmission distance or speed to efficiently expand the network. This is a cost-effective solution for SME networks to achieve the maximum performance of 10G networks.

Solution for IPv6 networks

With the IPv6/IPv4 dual stack and other management features, the ALL-SG8628PMJ-10G is the best choice for IP CCTV, VoIP and wireless solution providers to develop IPv6 networks. At the same time, they help SMEs to migrate their network infrastructures to the IPv6 era without additional investment.



Robust Layer 2 functions

The ALL-SG8628PMJ-10G can be programmed for advanced switch management functions, such as port aggregation, Q-in-Q VLAN, Spanning Tree Protocol, QoS, bandwidth control, ERPS, IGMP/MLD snooping, etc. The ALL-SG8628PMJ-10G enables the operation of a high-speed trunk that combines multiple ports.

Powerful security features

The ALL-SG8628PMJ-10G provides a comprehensive access control list (ACL) to enforce security at the network edge. It can be used to restrict network access by denying packets based on source and destination IP

addresses, TCP/UDP port numbers or defined typical network applications. The protection mechanism also includes 802.1x port-based and MAC-based user and device authentication. The private VLAN function can be used to prevent communication between edge ports in order to protect user privacy.

Improved security and traffic control

The ALL-SG8628PMJ-10G supports the DHCP Snooping, IP Source Guard and Dynamic ARP Inspection functions to protect IP snooping from attacks and to discard ARP packets with invalid MAC addresses. The network administrator can now set up highly secure company networks with significantly less time and effort than before.

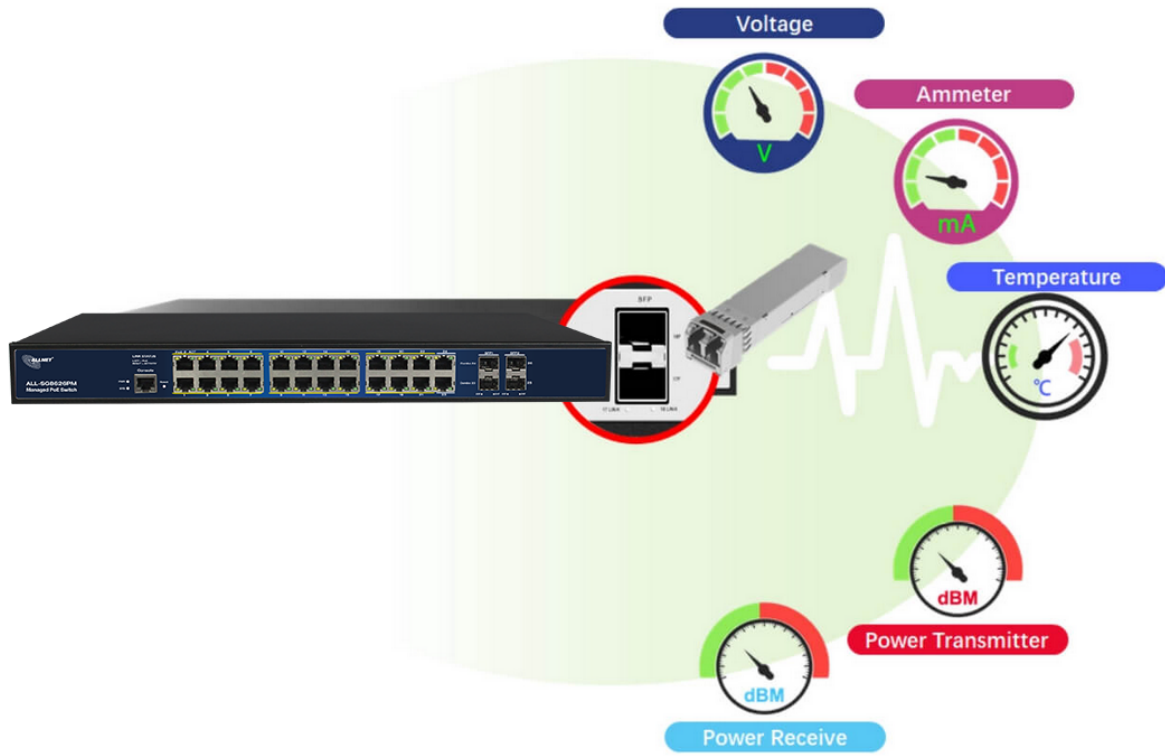
User-friendly, secure management

For efficient management, the ALL-SG8628PMJ-10G managed switch series is equipped with console, web and SNMP management interfaces. With the management interface, the ALL-SG8628PMJ-10G provides a user-friendly, platform-independent management and configuration option. The ALL-SG8628PMJ-10G supports SNMP and can be managed via any management software based on the standard SNMP v1 or v2 protocol. At the same time, the ALL-SG8628PMJ-10G offers Cisco-like commands via Telnet or the console port, so the customer does not have to learn new commands for these switches. In addition, the ALL-SG8628PMJ-10G provides secure remote management by supporting SSH, SSL and SNMP v3 connections, where packet contents can be encrypted at each session.

Intelligent SFP DDM function

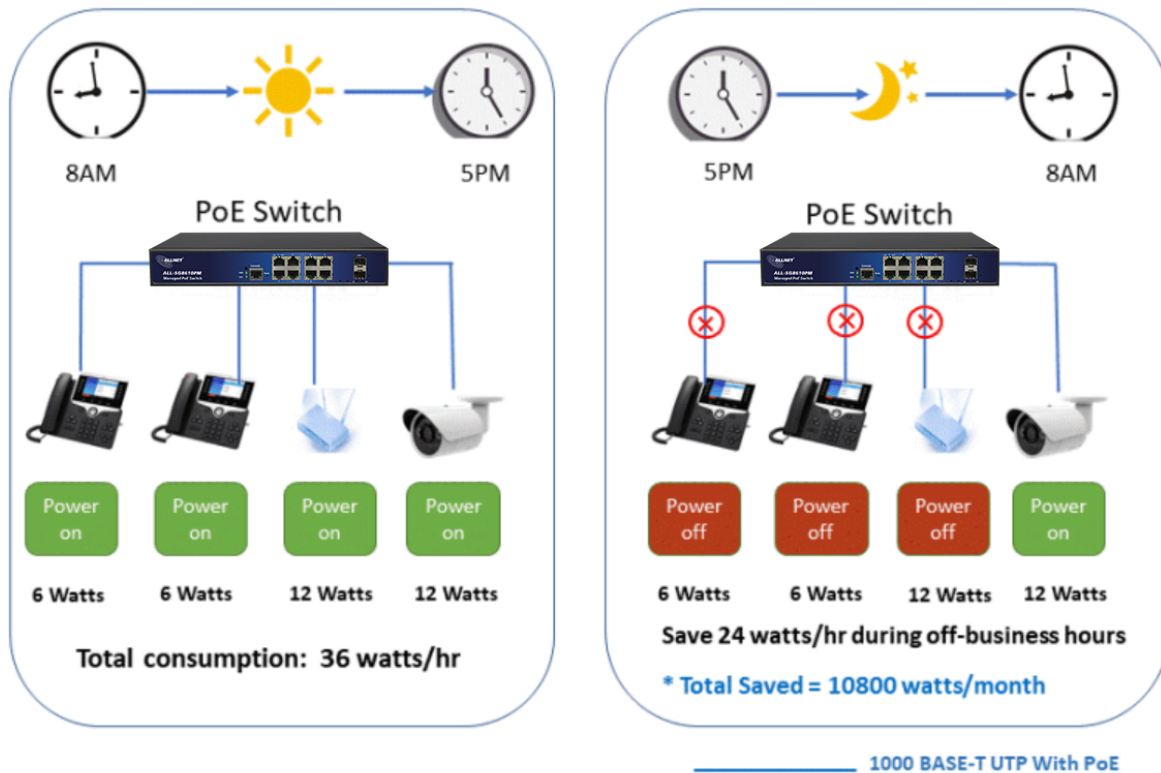
The ALL-SG8628PMJ-10G supports the SFP-DDM (Digital Diagnostic Monitor) function, which allows the network administrator to easily monitor real-time parameters of the SFP and SFP+ transceivers, such as optical output power, optical input power, temperature, laser bias voltage and transceiver supply voltage.

Digital Diagnostic Monitor (DDM)



PoE schedule function for energy saving

To protect the environment, the ALL-SG8628PMJ-10G 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

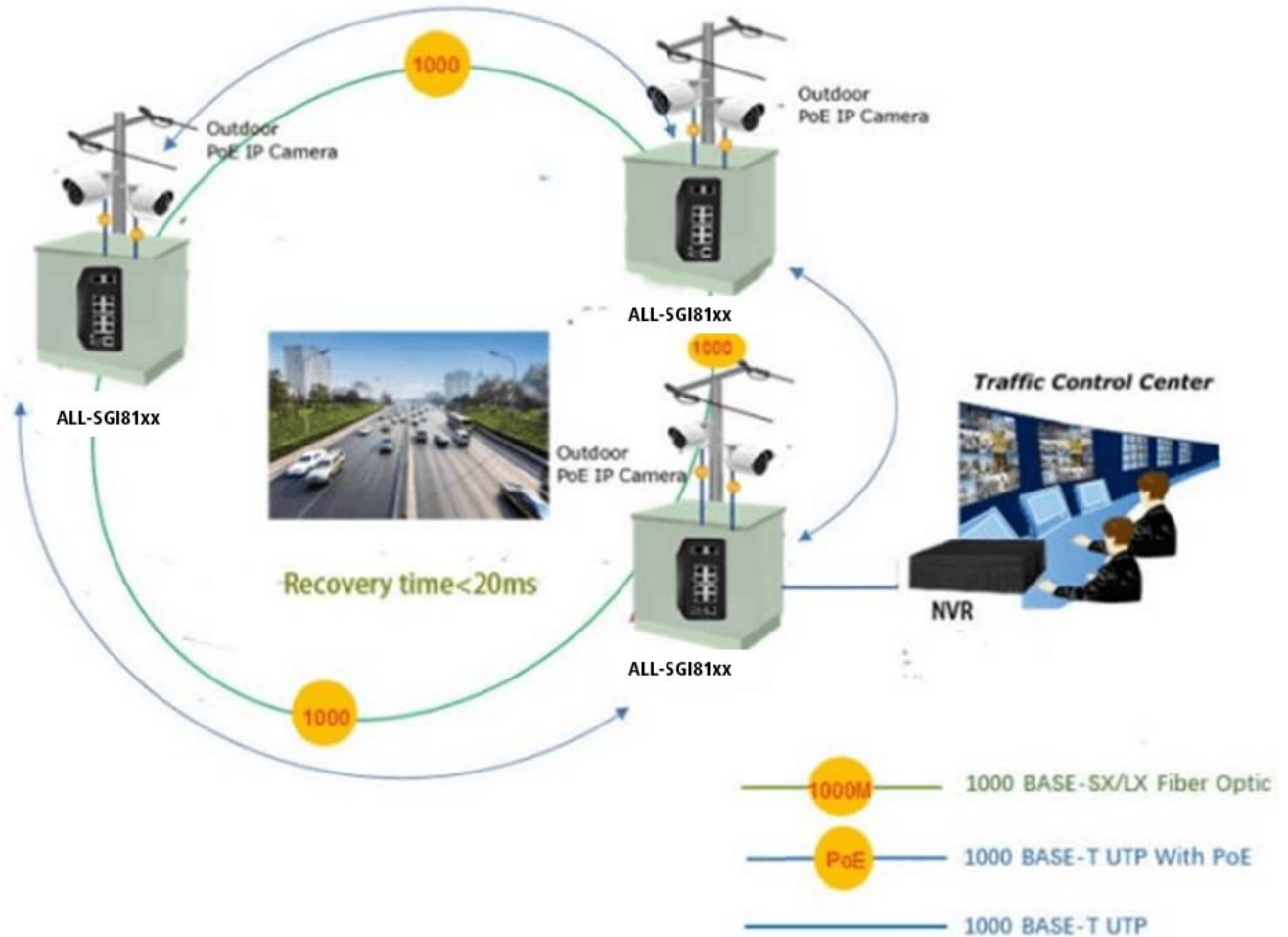
The ALL-SG8628PMJ-10G intelligent PoE switch allows each of the connected PoE IP cameras or PoE wireless access points to be restarted at a specific time every week. This reduces the risk of the IP camera or AP crashing due to a buffer overflow.



Redundant ring with fast recovery for critical network applications

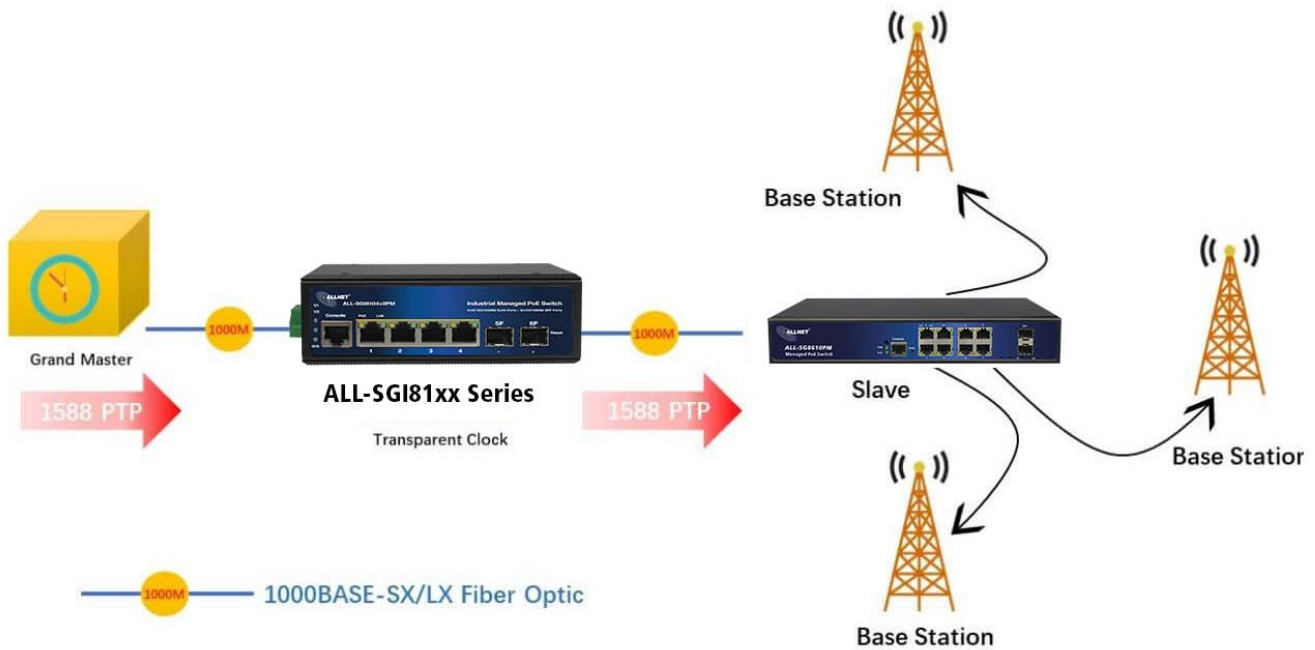
The ALL-SG8628PMJ-10G supports redundant ring technology and has a strong, fast self-recovery capability to prevent interruptions and external intrusions. It integrates advanced ITU-T G.8032 ERPS technology, Spanning Tree Protocol (802.1s MSTP) and a redundant power supply system into the customer's 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-SG8628PMJ-10G is ideal for telecommunications and carrier Ethernet applications and supports MEF service provisioning and timing-over-packet solutions for IEEE 1588 and synchronous Ether



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)



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://USER:PASSWORD@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	



Part No.: 221188
Vendor Part No.: ALL-SG8628PMJ-10G

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„id={i  
„set={  
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Technical data:

Model	ALL-SG8628PMJ-10G
Copper Ports	24-10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
Fibre ports	4-10G SFP interfaces
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	128Gbps/non-blocking
Throughput	94.23Mpps @64 bytes
Address Table	32K entries
Share Data Buffer	32Mb
Jumbo Frame	9600 bytes
SDRAM	2Gb
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. 370 watts
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 normal, solid on- soft work abnormal, fast Blink - soft upgrade PoE: Yellow Solid on- PoE work normally, Off- PoE doesn't work, Blink - PoE overload 10/100/1000T RJ45 Interfaces (Port 1 to Port 48): 1000 LNK/ACT (Green) Blink - port connected with data transmission; Solid on- port connected without data transmission



	1G/10G SFP Interfaces (Port 25 to Port 28): Blue Blink - port connected with data transmission; Solid on-port connected without data transmission
EMC	Surge Immunity: 4KV Per: IEC61000-4-5 ESD Protection: ESD Level 4 Per: IEC61000-4-2 EFT Level 4 Per: IEC61000-4-4
Layer2 Functions	
Port configuration	Auto-negotiation Flow control Port Mirror: TX/RX/BOTH; Many-to-1 monitor CPU Mirror Traffic statistics
Link aggregation	Static link aggregation LACP (Dynamic Trunk/Static Trunk) Algorithm based on Source/Destination MAC Algorithm based on Source/Destination IP
MAC Table	Aging Time Static MAC address Dynamic MAC address management
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	512ACLs

	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	1024 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 Telnet
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 Tracert/ tracert 6
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:	Mit Lüfter
Einsatzort Switch:	19"
Extra Features:	JSON-PoE-API;
LAN Geschwindigkeit:	1Gbit/s



Attribute	Value
Management:	full managed
PoE Budget:	<500 Watt
PoE Port Leistung:	30W at
SFP Geschwindigkeit:	SFP+ 10Gbit;
SFP Port Anzahl:	4
Weight:	4.3 Kg
Warranty:	24.00 Months

Accessories

Part No.	Name
101189	ALLNET ALL4757 / Switch module SFP+ (mini Gbic), 10Gbit, SR/
149613	ALLNET Switch Module ALL4757-INDU SFP+(Mini-GBIC), 10Gbit
101190	ALLNET ALL4758 / Switch module SFP+ (mini Gbic), 10Gbit, LR/
149616	ALLNET Switch Module ALL4758-INDU SFP+(Mini-GBIC), 10Gbit
128848	ALLNET Switch Module ALL4760 SFP+(Mini-GBIC), 10Gbit
146282	ALLNET Switch Module ALL4767 SFP+(Mini-GBIC), 10Gbit
27947	ALLNET ALL4750 / Switch module SFP (mini Gbic), 1000Mbit, SX
128033	ALLNET Switch Modul ALL4750-INDU SFP(Mini-GBIC), 1000Mbit MM
59426	ALLNET ALL4751 / Switch module, GBIC mini module, 1000Mbit,
128034	ALLNET Switch Module ALL4751-INDU SFP(Mini-GBIC), 1000Mbit,
114334	ALLNET Switch Modul ALL4752 SFP(mini Gbic), 1000Mbit, LHX/LC
166757	ALLNET Switch Modul ALL4752-INDU SFP(Mini-GBIC), 1000Mbit, LX/LC, 20KM, Industrial, -40/+85 Grad,
59391	ALLNET ALL4753 / Switch module GBIC Mini module, 1000Mbit, L
59393	ALLNET ALL4755 / Switch module SFP (mini Gbic), 1000Mbit, ZX
136828	ALLNET Switch Module ALL4761 SFP(Mini-GBIC), 1000Mbit
193149	ALLNET Switch Modul ALL4761-INDU SFP(Mini-GBIC), 1000Mbit, WDM(Bidi)/LC, Tx1310nm/Rx1490nm, 9u, 20Km, Industrial -40/+85 Grad,
136829	ALLNET Switch Module ALL4762 SFP(Mini-GBIC), 1000Mbit
193150	ALLNET Switch Modul ALL4762-INDU SFP(Mini-GBIC), 1000Mbit, WDM(Bidi)/LC, Tx1490nm/Rx1310nm, 9u, 20Km, Industrial -40/+85 Grad,



Part No.	Name
140675	ALLNET Switch Module ALL4765 SFP(Mini-GBIC), 1000Mbit
143548	ALLNET Switch Module ALL4756 SFP(Mini-GBIC), 1000Mbit, ZX/LC
208404	ALLNET Switch Modul ALL4765-INDU SFP(Mini-GBIC), 1000Mbit, RJ45(TP), Industrial -40/+85 Grad,
75932	Patchkabel RJ45, CAT5e 100Mhz, 0,25m grau, FTP(F/UTP), Synergy 21,
75939	Patchkabel RJ45, CAT5e 100Mhz, 0,5m grau, FTP(F/UTP), Synergy 21,
75946	Patchkabel RJ45, CAT5e 100Mhz, 1,0m grau, FTP(F/UTP), Synergy 21,
75959	Patchkabel RJ45, CAT5e 100Mhz, 2m grau, FTP(F/UTP), Synergy 21,
75966	Patchkabel RJ45, CAT5e 100Mhz, 3m grau, FTP(F/UTP), Synergy 21,
75973	Patchkabel RJ45, CAT5e 100Mhz, 5m grau, FTP(F/UTP), Synergy 21,
75979	Patchkabel RJ45, CAT5e 100Mhz, 7,5m grau, FTP(F/UTP), Synergy 21,
75986	Patchkabel RJ45, CAT5e 100Mhz, 10m grau, FTP(F/UTP), Synergy 21,
76091	Patchkabel RJ45, CAT5e 100Mhz, 15m grau, S-FTP(SF/UTP), Synergy 21,
76029	Patchkabel RJ45, CAT5e 100Mhz, 0,25m grau, S-FTP(SF/UTP), Synergy 21,
76036	Patchkabel RJ45, CAT5e 100Mhz, 0,5m grau, S-FTP(SF/UTP), Synergy 21,
76043	Patchkabel RJ45, CAT5e 100Mhz, 1,0m grau, S-FTP(SF/UTP), Synergy 21,
76056	Patchkabel RJ45, CAT5e 100Mhz, 2m grau, S-FTP(SF/UTP), Synergy 21,
76063	Patchkabel RJ45, CAT5e 100Mhz, 3m grau, S-FTP(SF/UTP), Synergy 21,
76070	Patchkabel RJ45, CAT5e 100Mhz, 5m grau, S-FTP(SF/UTP), Synergy 21,
76077	Patchkabel RJ45, CAT5e 100Mhz, 7,5m grau, S-FTP(SF/UTP), Synergy 21,
76084	Patchkabel RJ45, CAT5e 100Mhz, 10m grau, S-FTP(SF/UTP), Synergy 21,
76091	Patchkabel RJ45, CAT5e 100Mhz, 15m grau, S-FTP(SF/UTP), Synergy 21,
76117	Patchkabel RJ45, CAT6 250Mhz, 0,25m grau, S-STP(S/FTP), LSZH, Synergy 21,
76124	Patchkabel RJ45, CAT6 250Mhz, 0,5m grau, S-STP(S/FTP), LSZH, Synergy 21,
76133	Patchkabel RJ45, CAT6 250Mhz, 1,0m grau, S-STP(S/FTP), LSZH, Synergy 21,
76151	Patchkabel RJ45, CAT6 250Mhz, 2m grau, S-STP(S/FTP), LSZH, Synergy 21,
76160	Patchkabel RJ45, CAT6 250Mhz, 3m grau, S-STP(S/FTP), LSZH, Synergy 21,
76169	Patchkabel RJ45, CAT6 250Mhz, 5m grau, S-STP(S/FTP), LSZH, Synergy 21,
76178	Patchkabel RJ45, CAT6 250Mhz, 7,5m grau, S-STP(S/FTP), LSZH, Synergy 21,
76187	Patchkabel RJ45, CAT6 250Mhz, 10m grau, S-STP(S/FTP), LSZH, Synergy 21,
76196	Patchkabel RJ45, CAT6 250Mhz, 15m grau, S-STP(S/FTP), LSZH, Synergy 21,
140955	TP(RJ45) POE-Tester, at/af, Endspan/Midspan, standard, Synergy 21,



Part No.	Name
141255	Netzkabel 230V Schutzkontakt CEE7(Stecker)->Kaltgeräte IEC-C13(Buchse), 1m,Black IEC Lock
141254	Netzkabel 230V Schutzkontakt CEE7(Stecker)->Kaltgeräte IEC-C13(Buchse), 2m,Black IEC Lock
141256	Netzkabel 230V Schutzkontakt CEE7(Stecker)->Kaltgeräte IEC-C13(Buchse), 3m,Black IEC Lock
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
188424	CyberPower USV, OR-Serie, 600VA/360W, Line-Interactive, LCD, 19"/1HE, USB/RS232, IEC C13 Kaltgeräte,
188433	CyberPower USV, OR-Serie, 650VA/360W, Line-Interactive, LCD, 19"/1HE, USB/RS232, CEE7-Schutzkontakt,
188435	CyberPower USV, OR-Serie, 1000VA/600W, Line-Interactive, LCD, 19"/1HE, USB/RS232, IEC C13 Kaltgeräte
188439	CyberPower USV, OR-Serie, 1500VA/900W, Line-Interactive, LCD, 19"/1HE, USB/RS232, IEC C13 Kaltgeräte
175260	GBIC-Mini, SFP+, 10GB, TP(RJ45), 10GBASE-T, kompatibel für Intel, Intel-Code
98686	ALLNET MSR control center "ALL3500v2" incl. 4 sensor ports & WLAN for IP building automation
104126	ALLNET ALL3505 / IP Homeautomation Appliance DIN-Rail 8x I2C
134571	ALLNET ALL3419 / IP Building-Autom. 3x I2C, 1x USB, LAN/WLAN
206211	ALLNET MSR Central "ALL5000v2" incl. 16 Sensor Ports & 19" for IP Building Automation
192187	ALLNET PoE RGBW lamp with 1x MSR sensor port / LAN / WIFI *ALL-PoE-RGBW-LAMP*
234699	ALLNET Switch full managed Layer2+ zbh. Replacement bracket for ALL-SGxx 18/26/28/54 - Short version