Part No.: 193997
Vendor Part No.: ALL-SG8610PM

ALLNET Switch full managed 8 port Gigabit 130W / 8x PoE+ /

EAN CODE

4 0 3 8 8 1 6 1 0 6 2 8 5

Fanless 8-port Gigabit PoE Layer 2 Ethernet switch compliant with IEEE802.3at with 130W PoE budget ALL-SG8610PM

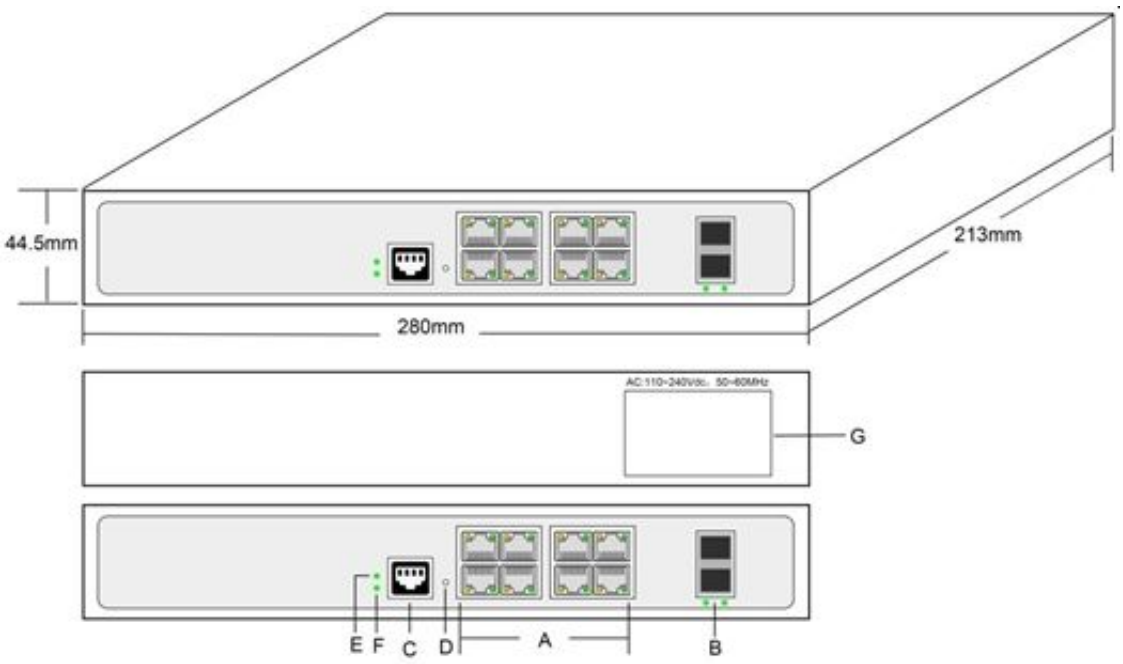
Highlights:

- 8-port 10/100/1000Mbps with full PoE support
- 2x SFP slots for optional MiniGBICS
- PoE power 4x a' 30 Watt (IEEE802.3at or 8x IEEE802.3af)
- FANLESS DESIGN with internal power supply unit
- Supports L2+ switching features such as 802.1Q VLAN, mirroring, port isolation, IGMP snooping, DHCP snooping, LLDP, POE+ management, IP source guard, ARP inspection, ACLs etc.
- Support of Spanning Tree STP(802.1D) and RSTP(802.1W) and MSTP(802.1s).
- Support advanced management via WEB, CLI, TELNET, SSH, SNMP.
- Support cable diagnosis and SFP DDM.
- Support PoE management, such as PoE schedule, PoE PD alive.
- Supports G.8032 quick ring protocol. Self recovery time <20ms.
- Support IEEE1588 v2, transparent clock (TC).
- Support DDM, SFP digital diagnostic monitoring
- Support IPV4 and IPV6 static routing functions.
- Support memory and CPU monitoring
- 4KV surge protection, 6KV contact/8KV air protection
- PoE budget 130W

Product Description:

The ALL-SG8610PM is a managed Layer 2+ Gigabit PoE switch that has intelligent PoE features to improve the availability of critical business applications. It offers IPv6/IPv4 management and an integrated L2+ Gigabit switching engine along with 8*10/100/1000BASE-T ports with 30 watts of 802.3at PoE+ and 2 Gigabit SFP slots. With a total power budget of up to 130W for various types of PoE applications, it provides fast, secure and cost-effective Power-over-Ethernet network solutions for IP surveillance in small businesses and enterprises.

The ALL-SG8610PM is programmed for advanced switch management features such as 802.1Q VLAN and Q-in-Q VLAN, Multiple Spanning Tree Protocol (MSTP), Loop and BPDU Guard, IGMP Snooping and MLD Snooping. In addition, Link Layer Discovery Protocol (LLDP) is included as a Layer 2 protocol to discover basic information about neighboring devices in the local broadcast domain.



A: 8x 10/100/1000Mbps PoE RJ45 Ports
B: 2x Gigabit SFP Uplink Ports
C: Console Port
D: Reset Key
E: Power LED Indicator
F: System Status LED Indicator
G: AC Power Input: 100~240V, 50~60Hz

Rich PoE Management Function

Being the managed PoE switches for CCTV surveillance, wireless and VoIP networks, ALL-SG8610PM features the following special PoE management functions:

- PoE PD-alive check
- Scheduled power rebooting
- PoE schedule
- PoE usage monitoring
- Soft-reboot PoE Non-stop
- PoE port power feeding priority

Smart PoE PD-Alive Check

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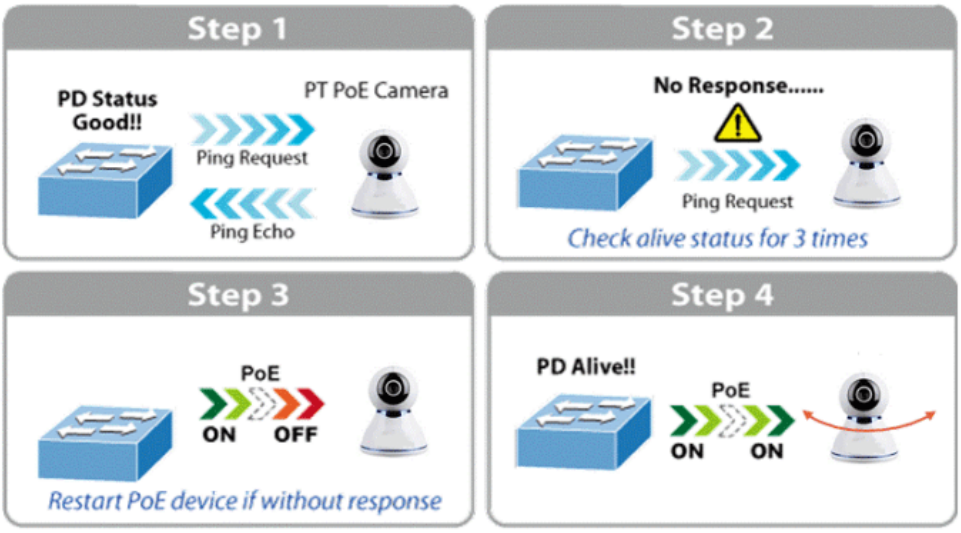
ALL-SG8610PM managed PoE switch can be configured to monitor connected PD status in real time. Once the PD stops working and responding, ALL-SG8610PM will resume the PoE port power and bring the PD back to work. They will greatly enhance the network reliability through the PoE port resetting the PD's power source and reducing administrator management burden.



PoE Schedule Function for Energy Saving

For environmental protection purpose, the ALL-SG8610PM switch Ethernet PoE can effectively control the power supply besides its capability of giving high watts power. The PoE schedule function helps to enable or disable PoE power feeding for each PoE port during specified time intervals and it is a powerful function to help SMBs or enterprises save power and money.

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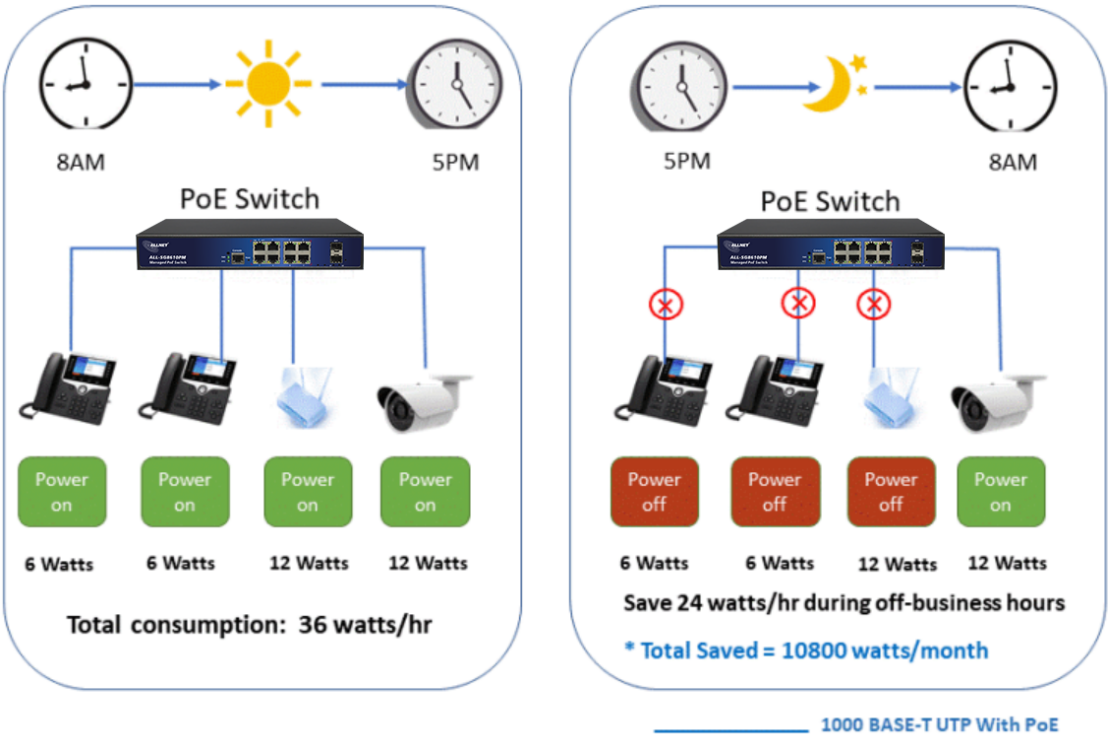
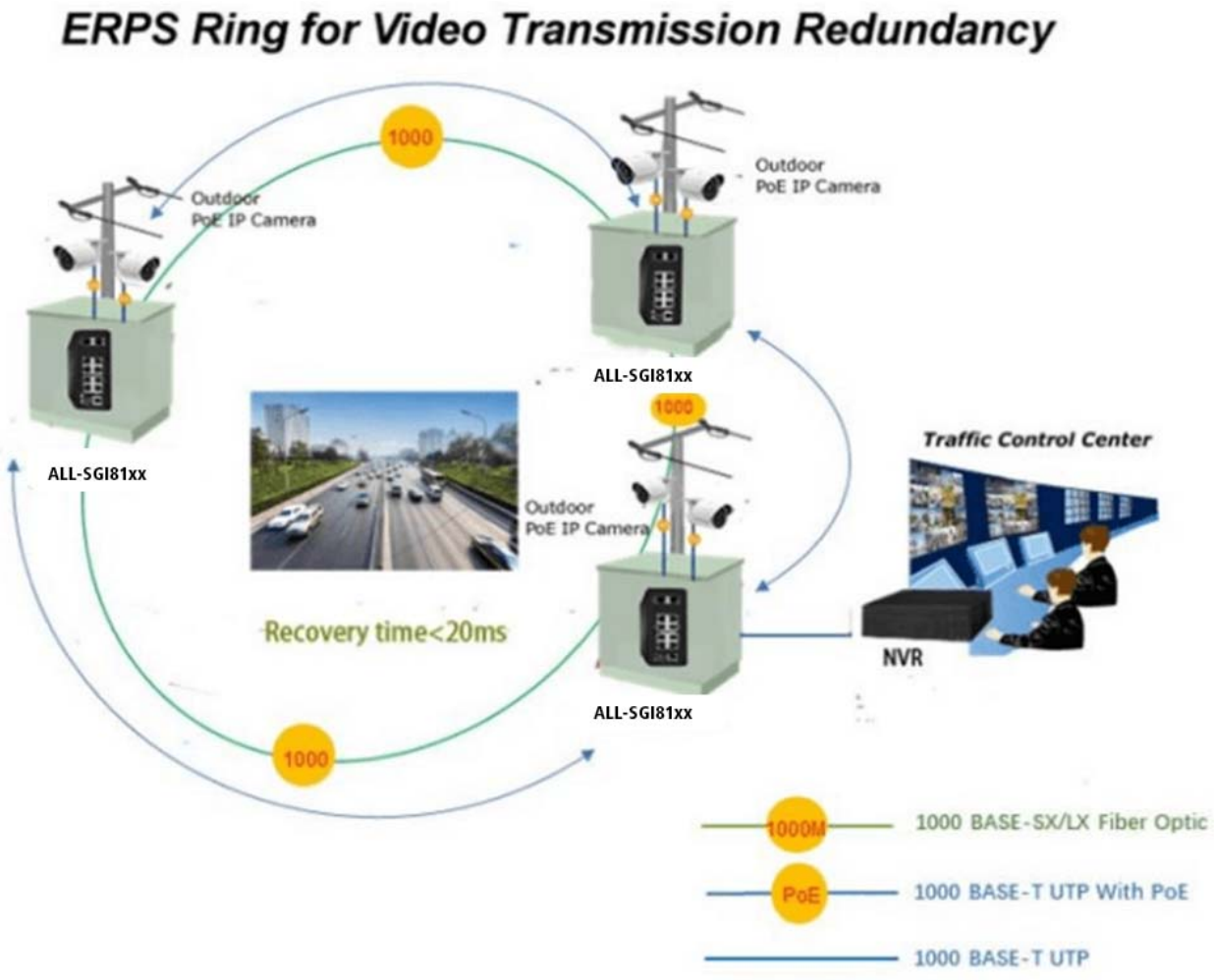


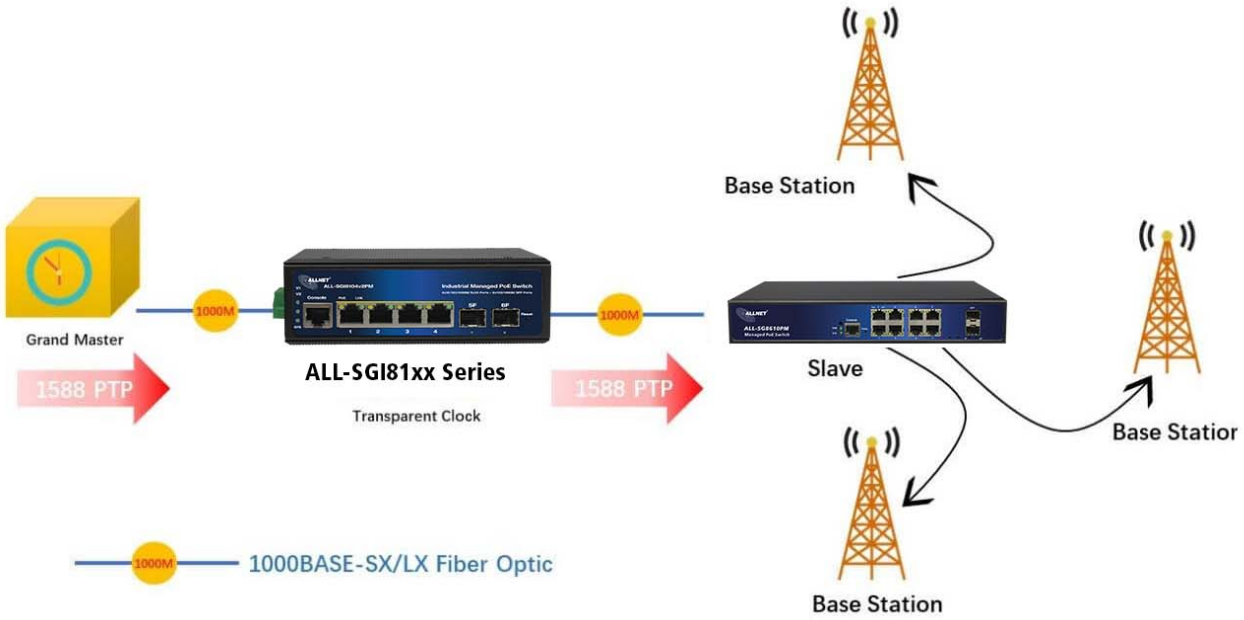
Scheduled PD Re-starting

The ALL-SG8610PM smart switch PoE allows each of the connected PoE IP cameras or PoE wireless access points to reboot at a specific time each week. Therefore, it will reduce the chance of IP camera or AP crash resulting from buffer overflow.



1588 Time Protocol for Industrial Computing Networks

The ALL-SG8610PM is ideal for telecom and Carrier Ethernet applications, supporting MEF service delivery and timing over packet solutions for IEEE 1588 and synchronous Ethernet.



Strong Layer 2 Features

The ALL-SG8610PM 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. Via the aggregation of supporting ports, the ALL-SG8610PM allows the operation of a high-speed trunk group that comes with multiple ports and supports fail-over as well.

Efficient and Various Management Methods

For efficient management, the ALL-SG8610PM is equipped with console, Web and SNMP management interfaces.

With the built-in Web-based management interface, it offers an easy-to-use, platform-independent management and configuration facility.

For text-based management, it can be accessed via Telnet and the console port.

For standard-based monitor and management software, it offers SNMPv3 connection which encrypts the packet content at each session for secure remote management.

Intelligent PoE Switch SFP DDM Function

The ALL-SG8610PM supports SFP-DDM (digital diagnostic monitor) function that greatly helps network administrator to easily monitor real-time parameters of the SFP transceivers, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage.

Technical Details:

Model	ALL-SG8610PM
Copper Ports	8-10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
Fiber Ports	2x1G BASE-X SFP interfaces, supports 100M/1G Mbps dual mode
PoE Ports	1~8-802.3af/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	20 Gbps/non-blocking
Throughput	14.88Mpps @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.150 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)
PoE Budget	130W
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 PoE: Yellow Solid on- PoE work normally, Off- PoE doesn’t work, Blink - PoE overload

	10/100/1000T RJ45 Interfaces (Port 1 to Port 8): 1000 LNK/ACT (Green) Blink - port connected with data transmission; Solid on- port connected without data transmission 100/1000Mbps SFP Interfaces (Port 9 to Port 10): Green 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) Algorith 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 tunneling 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

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	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
Synchronization, 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 neighbor 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	280x213x44.5mm
Weight	2 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:	8/0
Belüftung Switch:	Lüfterlos
Einsatzort Switch:	19"
LAN Geschwindigkeit:	1Gbit/s
Management:	full managed
PoE Budget:	<200 Watt
PoE Port Leistung:	30W at
SFP Geschwindigkeit:	SFP 1GBit
Weight:	2 Kg
Warranty:	24 Months

Additional Images

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Accessories

Part No.	Name
27947	ALLNET ALL4750 / Switch module SFP (mini Gbic), 1000Mbit, SX
59426	ALLNET ALL4751 / Switch module, GBIC mini module, 1000Mbit,
114334	ALLNET Switch Modul ALL4752 SFP(mini Gbic), 1000Mbit, LHX/LC
59391	ALLNET ALL4753 / Switch module GBIC Mini module, 1000Mbit, L
59393	ALLNET ALL4755 / Switch module SFP (mini Gbic), 1000Mbit, ZX
147402	ALLNET ALL0489V3 / Power over Ethernet Gigabit Injektor AT
99315	ALLNET ALL8804PoE+ / Unmanaged 8 Port Giga.HPoE Switch, 2x P
90956	ALLNET ALL8894WMP / Smart managed 8 Port Giga.HPoE Switch, 2
93392	ALLNET ALL8808PoE+ / Unmanaged 8 Port Gigabit Switch HPoE, 4
137466	ALLNET ALL-SG8910PM / full managed Layer2+ 10 Port Giga PoE+
75932	Patchkabel RJ45 FTP(F/UTP) 0,25m grau, CAT5e, Synergy 21,
194025	ALLNET Switch full managed 24 Port Gigabit 390W / 24x PoE+
186548	ALLNET PoE Injector Gigabit PoE & PoE+ (15,4W/30W) / plastic
147402	ALLNET ALL0489V3 / Power over Ethernet Gigabit Injektor AT
99305	ALLNET / ALL95100 TP Cat 6 / PoE Surge arrester
183826	ALLNET Switch smart managed 24 Port Gigabit 460W / 24x PoE+
93392	ALLNET ALL8808PoE+ / Unmanaged 8 Port Gigabit Switch HPoE, 4
137466	ALLNET ALL-SG8910PM / full managed Layer2+ 10 Port Giga PoE+
27947	ALLNET ALL4750 / Switch module SFP (mini Gbic), 1000Mbit, SX
59391	ALLNET ALL4753 / Switch module GBIC Mini module, 1000Mbit, L
59393	ALLNET ALL4755 / Switch module SFP (mini Gbic), 1000Mbit, ZX
114334	ALLNET Switch Modul ALL4752 SFP(mini Gbic), 1000Mbit, LHX/LC
140675	ALLNET Switch Module ALL4765 SFP(Mini-GBIC), 1000Mbit
140955	TP(RJ45) POE-Tester, at/af, Endspan/Midspan, standard, Synergy 21,
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
188424	CyberPower USV, OR-Serie, 600VA/360W, Line-Interactive, LCD, 19"/1HE, USB/RS232, IEC

Part No.	Name
	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

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