

ALLNET Switch full managed 24 Port Gigabit / 24x LAN / 4x SF

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EAN CODE



ALLNET Switch full managed 24 Port Gigabit / 24x LAN / 4x SFP+ / 19" / "ALL-SG8628M-10G"

Highlights:

- 24 ports Gigabit Layer2+ switch architecture (ports 1~24).
- 4 ports SFP+ 10G slots for optional GBICs compatible (ports 25~28).
- Supports SFP DDM & cable diagnostics
- Supports G.8032 ERPS, self detection time < 20 ms
- Supports 1588 V2.0, transparent clock
- Supports port aggregation
- 4KV surge protection, 6KV contact/8KV air ESD protection
- 19" angle or wall/table mounting possible

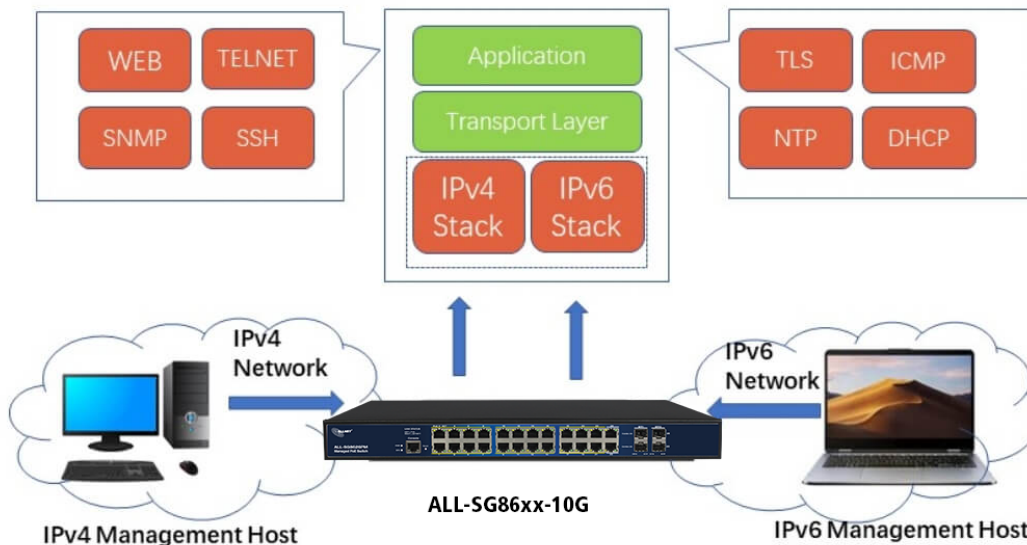
ALL-SG8628M-10G has 24*10/100/1000Base-T RJ45 ports and 4*10G Base-X SFP fiber slot ports with Layer 2 management. Support desktop and 1U/19 inch rack installation.

10Gbps Uplink Capacity for Big Bandwidth Application

10G Ethernet is a big leap in the evolution of Ethernet. The 10G SFP+ slots support dual-speed 10GBASE-SR/LR or 1000BASE-SX/LX, meaning the administrator now can flexibly choose the suitable SFP/SFP+ transceiver according to the transmission distance or the transmission speed required to extend the network efficiently. It is a cost-effective solution for SMB network to achieve the maximum performance of the 10G networks

Solution for IPv6 Networking

With the IPv6/IPv4 dual stack and other management functions, ALL-SG8628M-10G is the best choice for IP CCTV surveillance, VoIP and wireless solution providers to develop the IPv6 network. Meanwhile the fiber switch help the SMBs to upgrade their network infrastructures to the IPv6 era without any extra investment.



Robust Layer 2 Features

ALL-SG8628M-10G can be programmed for advanced Ethernet switch management functions, such as port aggregation, Q-in-Q VLAN, Spanning Tree Protocol, QoS, bandwidth control, ERPS IGMP/MLD snooping etc. ALL-SG8628M-10G allows the operation of a high-speed trunk combining multiple ports.

Powerful Security Functions

ALL-SG8628M-10G provides a comprehensive access control list (ACL) for enforcing security to the edge. It can be used to restrict to network access by denying packets based on source and destination IP address, TCP/UDP port number or defined typical network applications. Its protection mechanism also comprises 802.1x Port-based and MAC-based user and device authentication. With the private VLAN function, communication between edge ports can be prevented to ensure user privacy.

Enhanced Security and Traffic Control

ALL-SG8628M-10G supports DHCP Snooping, IP Source Guard and Dynamic ARP Inspection functions to prevent IP snooping from attack and discard ARP packets with invalid MAC address. The network administrator can now construct highly-secure corporate networks with considerably less time and effort than before.

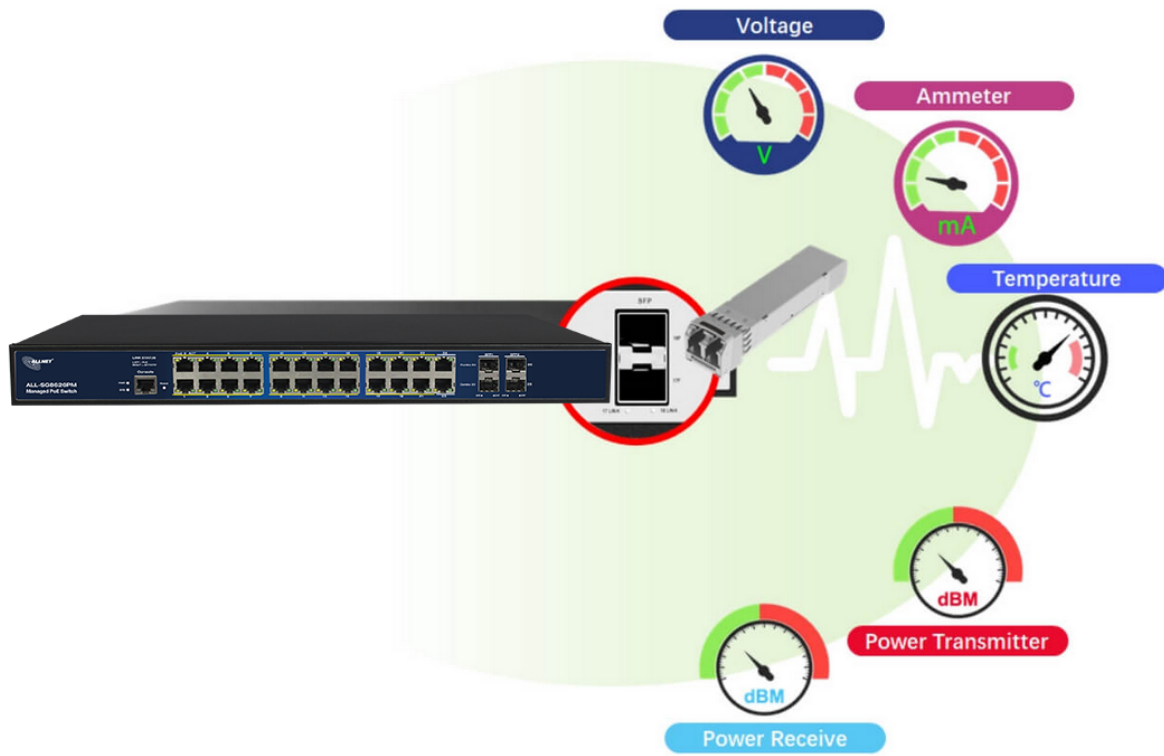
User-friendly Secure Management

For efficient management, ALL-SG8628M-10G managed switch series is equipped with console, web and SNMP management interfaces. With management interface, ALL-SG8628M-10G offers an easy-to-use, platform independent management and configuration facility. ALL-SG8628M-10G supports SNMP and it can be managed via any management software based on the standard SNMP v1 or v2 Protocol. Meanwhile ALL-SG8628M-10G offers Cisco-like command via Telnet or console port and customer doesn't need to learn new command from these switches. Moreover, ALL-SG8628M-10G offers the remotely secure management by supporting SSH, SSL and SNMP v3 connection where the packet content can be encrypted at each session.

Intelligent SFP DDM Function

ALL-SG8628M-10G supports SFP-DDM (Digital Diagnostic Monitor) function that greatly helps 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 current, and transceiver supply voltage.

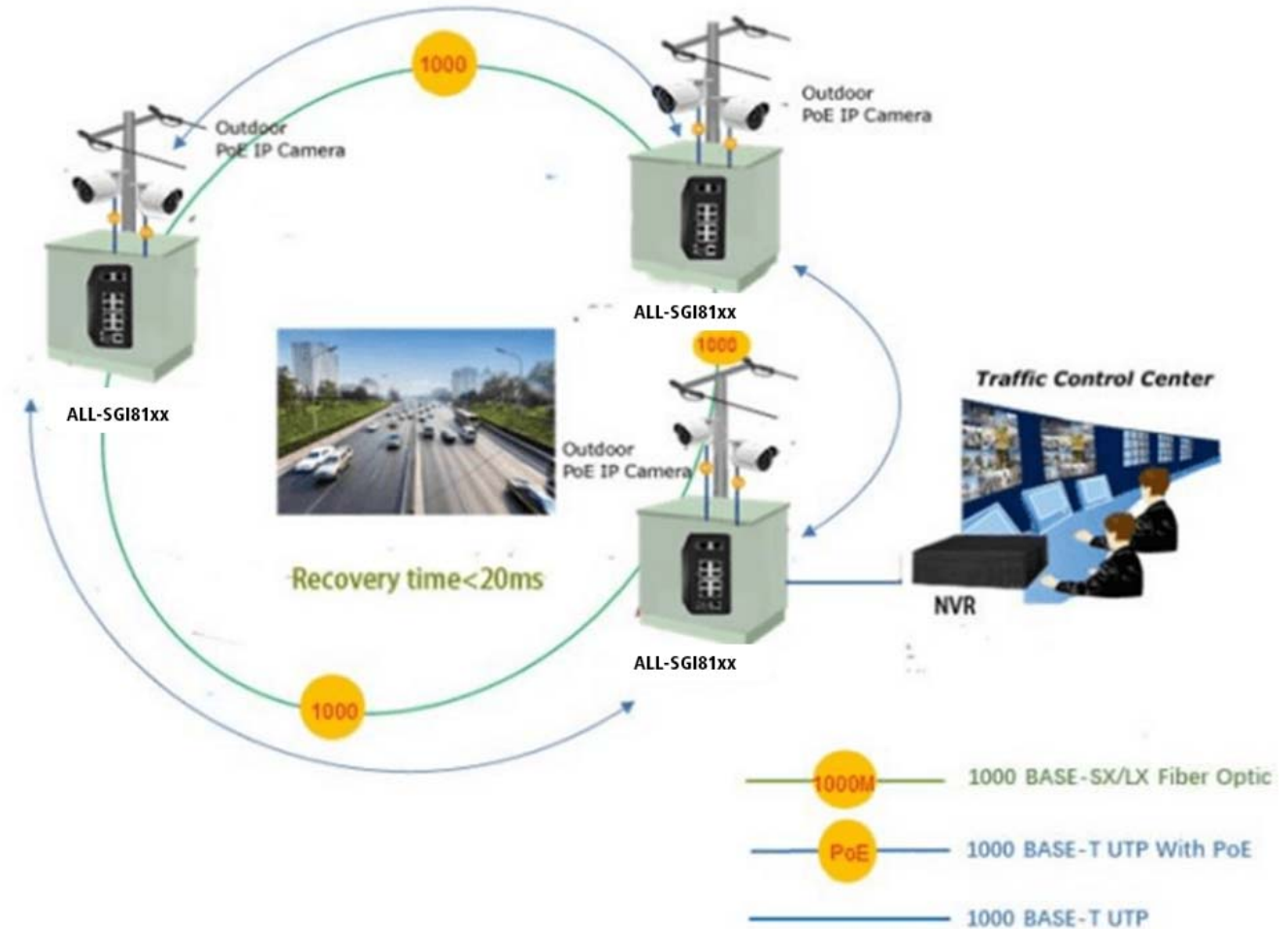
Digital Diagnostic Monitor (DDM)



Fast Recovery Redundant Ring for Critical Network Applications

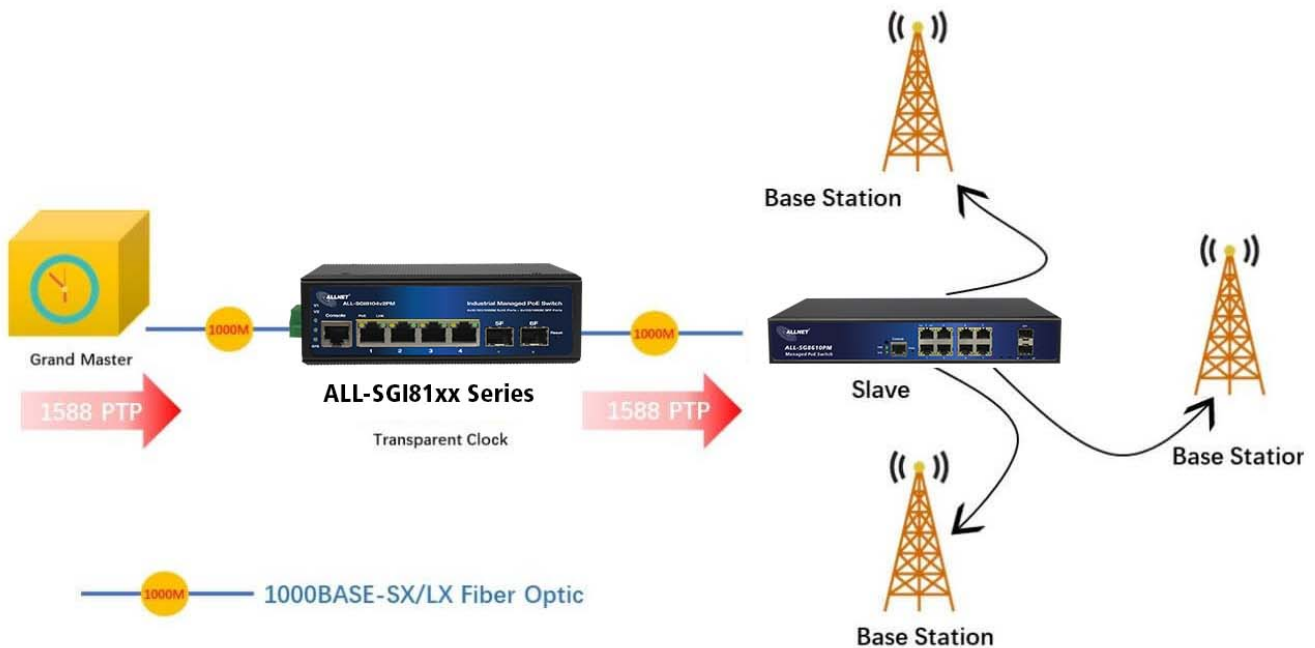
The ALL-SG8628M-10G supports redundant ring technology and features strong, rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates advanced ITU-T G.8032 ERPS technology, Spanning Tree Protocol (802.1s MSTP), and redundant power input system into customer's industrial automation network to enhance system reliability and uptime in harsh factory environments. In a certain simple Ring network, the recovery time of data link can be as fast as 20ms.

ERPS Ring for Video Transmission Redundancy



1588 Time Protocol for Industrial Computing Networks

The ALL-SG8628M-10G is ideal for telecom and Carrier Ethernet applications, supporting MEF service delivery and timing over packet solutions for IEEE 1588 and synchronous Ethernet.



Technische Daten:

| | |
|---------------------|--|
| Model | ALL-SG8628M-10G |
| Copper Ports | 24-10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports |
| Fiber Ports | 4x1G/10GBASE-X SFP interfaces, supports 1G/10Gbps dual mode |
| Console Ports | 1 x RS-232-to-RJ45 serial port (115200, 8, N, 1) |
| Switch Architecture | Store-and-Forward |
| Switch Fabric | 128 Gbps/non-blocking |
| Throughput | 95.2Mpps @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. 60 watts/1122 BTU |



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| LED Indicators | <p>Power: Green</p> <p>Solid on- power work normal, off- power disconnected</p> <p>System: Green</p> <p>Blink-work normally, solid on- soft work abnormal, fast Blink- soft upgrade</p> <p>10/100/1000T RJ45 Interfaces (Port 1 to Port 24): 1000 LNK/ACT (Green),10/100 LNK/ACT (yellow),</p> <p>Blink- port connected with data transmission; Solid on- port connected without data transmission</p> <p>1G/10G SFP Interfaces (Port 25 to Port 28): Blue</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>Algorith based on Source/Destination MAC</p> <p>Algorithm based on Source/Destination IP</p> |
| MAC Table | Aging Time |



| | |
|-----------------|---|
| | <p>Static MAC address</p> <p>Dynamic MAC address management</p> |
| VLAN | <p>4094 Active VLANs</p> <p>4094 VID</p> <p>802.1Q Tag VLAN</p> <p>Port VLAN</p> <p>Protocol VLAN</p> <p>MAC VLAN</p> <p>Voice VLAN</p> <p>802.1ad Q-in-Q tunneling</p> <p>Private VLAN (Protected port)</p> <p>GARP/GVRP</p> |
| ACL | <p>512ACLs</p> <p>L2, L3 e L4</p> <p>Time-based ACL</p> <p>IP ACL</p> <p>MAC ACL</p> <p>MAC-IP ACL</p> <p>User-Defined ACL</p> <p>ICMPv6</p> |
| Spanning tree | <p>802.1D Spanning Tree Protocol (STP)</p> <p>802.1w Rapid Spanning Tree Protocol (RSTP)</p> <p>802.1s Multiple Spanning Tree Protocol (MSTP)</p> <p>Loop Guard</p> <p>Root Guard</p> <p>TC-BPDU Guard</p> <p>BPDU Guard</p> <p>BPDU Filter</p> |
| Ring Protection | <p><20ms G.8032 ERPS Ring</p> <p>Fast Ring</p> |
| Multicast | <p>1024 groups</p> <p>IGMP v1/v2/v3 Snooping, Fast Leave</p> <p>MLD Snooping</p> <p>Multicast VLAN</p> <p>IGMP filter</p> <p>MVR</p> <p>Multicast Routing</p> |
| QOS | <p>8 mapping IDs to 8 level priority queues</p> |



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|-------------------|---|
| | <p>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</p> |
| Security Features | <p>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</p> |
| Management | <p>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 client</p> |



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|---------------------------|--|
| 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 |
| Maintenance | Cable Diagnostics Ping SFP DDM (Digital Diagnostics Monitoring) Thermal protection System log (Local and Remote) Memory and CPU Monitoring Tracert/ tracer 6 |
| 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 | 440x240x44.5 mm |
| Weight | 3,2 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: | 0/24 |



| Attribute | Value |
|----------------------|------------------------|
| Belüftung Switch: | Mit Lüfter |
| Einsatzort Switch: | 19" |
| LAN Geschwindigkeit: | 1Gbit/s |
| Management: | full managed |
| SFP Geschwindigkeit: | SFP 1Gbit;SFP+ 10Gbit; |
| Weight: | 1 Kg |
| Warranty: | 24.00 Months |

Accessories

| Part No. | Name |
|----------|--|
| 146245 | ALLNET Switch Zubehör smart managed 24 Port Gigabit PoE AT Ersatzlüfter ALL-SG8428PM |
| 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 |
| 143548 | ALLNET Switch Module ALL4756 SFP(Mini-GBIC), 1000Mbit, ZX/LC |
| 141113 | ALLNET ALL4780 / Switch Modul (Mini-GBIC), 2Wire-Set, max. 1 |
| 75932 | Patchkabel RJ45 FTP(F/UTP) 0,25m grau, CAT5e, Synergy 21, |
| 75939 | Patchkabel RJ45 FTP(F/UTP) 0,5m grau, CAT5e, Synergy 21, |
| 75946 | Patchkabel RJ45 FTP(F/UTP) 1,0m grau, CAT5e, Synergy 21, |
| 75959 | Patchkabel RJ45 FTP(F/UTP) 2m grau, CAT5e, Synergy 21, |
| 75966 | Patchkabel RJ45 FTP(F/UTP) 3m grau, CAT5e, Synergy 21, |
| 75973 | Patchkabel RJ45 FTP(F/UTP) 5m grau, CAT5e, Synergy 21, |
| 75979 | Patchkabel RJ45 FTP(F/UTP) 7,5m grau, CAT5e, Synergy 21, |
| 75986 | Patchkabel RJ45 FTP(F/UTP) 10m grau, CAT5e, Synergy 21, |
| 76091 | Patchkabel RJ45, 15m grau, CAT5e, S-FTP(SF/UTP), Synergy 21, |
| 76029 | Patchkabel RJ45, 0,25m grau, CAT5e, S-FTP(SF/UTP), Synergy 21, |
| 76036 | Patchkabel RJ45, 0,5m grau, CAT5e, S-FTP(SF/UTP), Synergy 21, |
| 76043 | Patchkabel RJ45, 1,0m grau, CAT5e, S-FTP(SF/UTP), Synergy 21, |

| Part No. | Name |
|----------|--|
| 76056 | Patchkabel RJ45, 2m grau, CAT5e, S-FTP(SF/UTP), Synergy 21, |
| 76063 | Patchkabel RJ45, 3m grau, CAT5e, S-FTP(SF/UTP), Synergy 21, |
| 76070 | Patchkabel RJ45, 5m grau, CAT5e, S-FTP(SF/UTP), Synergy 21, |
| 76077 | Patchkabel RJ45, 7,5m grau, CAT5e, S-FTP(SF/UTP), Synergy 21, |
| 76084 | Patchkabel RJ45, 10m grau, CAT5e, S-FTP(SF/UTP), Synergy 21, |
| 76091 | Patchkabel RJ45, 15m grau, CAT5e, 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, |
| 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 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 |
| 146282 | ALLNET Switch Module ALL4767 SFP+(Mini-GBIC), 10Gbit |
| 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/ |



Part No.: 208888
Vendor Part No.: ALL-SG8628M-10G

| Part No. | Name |
|----------|---|
| 149616 | ALLNET Switch Module ALL4758-INDU SFP+(Mini-GBIC), 10Gbit |
| 208360 | ALLNET Switch Modul ALL4767-INDU SFP+(Mini-GBIC), 10Gbit, RJ45(TP), uncodiert, Industrial -40/+85 Grad, |
| 139776 | ALLNET Switch Module ALL4763 SFP+(Mini-GBIC), 10Gbit |
| 139777 | ALLNET Switch Module ALL4764 SFP+(Mini-GBIC), 10Gbit |
| 191685 | ALLNET Switch Modul ALL4768 SFP+(Mini-GBIC), 10Gbit Singlemode, LR/LC, bis 40Km |
| 191686 | ALLNET Switch Modul ALL4769 SFP+(Mini-GBIC), 10Gbit Singlemode, LR/LC, bis 80Km |