

ALLNET Switch Core managed 44 Port Gig / 12x TP LAN/28x SFP/

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EAN CODE



Core Managed Layer3 Switch mit 28x SFP Slots für Kupfer oder Fibre SFP's, 12x Feste RJ45 Gigabit Ports und 4x 10G SFP+ Slots

Highlights:

- 28x 1G SFP ports +12x 10/100/1000M RJ45 ports + 4x 10G SFP+ ports
- Support L3 switching feature, including VLAN, port aggregation, port mirroring, port isolation, port flow control, port rate limiting, multicast, QOS, & access control list, etc
- Support Spanning Tree, for examples, STP, RSTP, MSTP etc.
- Management support through WEB, CLI, TELNET, SNMP.
- Max. Support 4x 10G SFP+ ports
- Support of extended management through WEB, CLI, TELNET, SNMP
- Support IPV4 / IPV6 forwarding.
- As access or aggregation switch in campus networks or as access switch in data centers.

The ALL-SG9440M-10G is a very versatile switch that is also perfectly suited as a core switch. This results from its various connection possibilities.

Various Port Types and Flexible Port Expansion

ALL-SG9440M-10G supports 28*1G SFP ports and 12*1000M RJ45 ports and 4x10G SFP+ ports. The users can flexibly adopt 1~4*10G ports expansion. The series also provides multiple gigabit ports (24 or 48 Base-T ports and Base-X ports), it can be used as an access or aggregation switch on campus networks or an access switch in data centers.



Comprehensive QoS policies and security mechanisms

ALL-SG9440M-10G supports strict ARP learning, which prevents ARP spoofing attacks that exhaust ARP entries. It also provides IP source guard to prevent DoS attacks caused by MAC address spoofing, IP address spoofing, and MAC/IP spoofing. The ALL-SG9440M-10G supports DHCP snooping, which generates user binding entries based on users' access interfaces, MAC addresses, IP addresses, IP address leases, and VLAN IDs. DHCP snooping discards invalid packets that do not match any binding entries, such as ARP spoofing packets and IP spoofing packets. This prevents hackers from using ARP packets to initiate man-in-the-middle attacks on campus networks. The interface connected to a DHCP server can be configured as a trusted interface to protect the system against bogus DHCP server attacks.

Comprehensive reliability mechanisms

Besides STP, RSTP, and MSTP, the ALL-SG9440M-10G supports enhanced Ethernet reliability technologies such as Ethernet Ring Protection Switching (ERPS), also referred to as G.8032. As the latest ring network protocol, ERPS was developed based on traditional Ethernet MAC and bridging functions and uses mature Ethernet OAM function and a ring automatic protection switching (R-APS) mechanism to implement millisecond-level protection switching. ERPS supports various services and allows flexible networking, helping customers build a network with lower OPEX and CAPEX.

Powerful support for services

ALL-SG9440M-10G supports IGMP v1/v2/v3 snooping, IGMP filter, IGMP fast leave, and IGMP proxy. The ALL-SG9440M-10G supports wire-speed replication of multicast packets between VLANs, multicast load balancing among member interfaces of a trunk, and controllable multicast, meeting requirements for IPTV and other multicast services.

Easy deployment and maintenance free

Supports SNMP v1/v2/v3 and provides flexible methods for managing devices. Users can manage the ALL-SG9440M-10G using the CLI and Web NMS. Supports SSH2.0 and other encryption, which makes management much more secured. Supports LLDP protocol for simpler management.

Technical Details:

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|---------------------|---|
| Model | ALL-SG9440M-10G |
| Copper Ports | 12x10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports |
| Fiber Ports | 28x100M/1000M BASE-X SFP interfaces, supports 100m/1000M dual mode 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 | 160Gbps/non-blocking |



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 Numéro de fabricant: ALL-SG9440M-10G

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|-------------------|---|
| Throughput | 119Mpps @64 bytes |
| Address Table | 32K entries |
| Share Data Buffer | 32 Mb |
| 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. 75 watts/1122 BTU |
| 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 12): 1000 LNK/ACT (Green),</p> <p>10/100 LNK/ACT (yellow),</p> <p>Blink- port connected with data transmission; Solid on- port connected without data transmission</p> <p>100/1000Mbps SFP Interfaces (Port 12 to Port 40): Green</p> <p>Blink- port connected with data transmission; Solid on- port connected without data transmission</p> <p>1G/10G SFP Interfaces (Port 41 to Port 44): Blue</p> <p>Blink- port connected with data transmission; Solid on- port connected without data transmission</p> |
| EMC | <p>Surge Immunity: IEC61000-4-5</p> <p>ESD Protection: ESD IEC61000-4-2</p> <p>EFT IEC61000-4-4</p> |
| Dimension | 440x240x44.5mm |



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| Weight | 3.2kg |
| Working Temperature | -10°C to +45°C |
| Storage Temperature | -20°C to +70°C |
| MTBF | 50,000hrs |

Layer 2 functions

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|--------------------|---|
| 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 tunneling Private VLAN (Protected port) |



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| | 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 |



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| 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 |



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| | 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 client |
| Synchronization, IEEE1588 | Support IEEE1588v2 transparent clock |
| Other Features | DNS Client |



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| | 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 /tracert 6 |

Layer 3 functions

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|----------------|--|
| 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) |



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| | Http/Https |
| | Interface IPV6 |
| | ACL IPV6 |

Attributs

| Attribut | Valeur |
|-----------------------|--------------|
| Anzahl Ports PoE/LAN: | 0/12 |
| Belüftung Switch: | Mit Lüfter |
| Einsatzort Switch: | Desktop |
| LAN Geschwindigkeit: | 1Gbit/s |
| Management: | full managed |
| SFP Geschwindigkeit: | SFP+ 10Gbit |
| Poids: | 4 Kg |
| Garantie: | 24.00 Mois |

Accessoires

| No. d'article | Désignation |
|---------------|---|
| 27947 | ALL4750 Module MiniGBIC MULTIMODE |
| 128033 | ALLNET Switch Modul ALL4750-INDU SFP(Mini-GBIC), 1000Mbit MM |
| 59426 | ALL4751 Module MiniGBIC SINGLEMODE |
| 128034 | ALLNET Module de commutation ALL4751-INDU SFP(M-GBIC), 1G SM |
| 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 | ALL4753 Module MiniGBIC SINGLEMODE |
| 59393 | ALL4755 Module miniGBIC SINGLEMODE |
| 143548 | ALLNET Switch Module ALL4756 SFP(Mini-GBIC), 1000Mbit, ZX/LC |
| 101189 | ALLNET ALL4757 / Switch module SFP+ (mini Gbic), 10Gbit, SR/ |
| 149613 | ALLNET Switch Module ALL4757-INDU SFP+(Mini-GBIC), 10Gbit |

| No. d'article | Désignation |
|---------------|--|
| 101190 | ALLNET Switch module ALL4758 SFP+ (Mini-GBIC), 10Gbit Single |
| 149616 | ALLNET Switch Module ALL4758-INDU SFP+(Mini-GBIC), 10Gbit |
| 128848 | ALLNET Switch Module ALL4760 SFP+(Mini-GBIC), 10Gbit |
| 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, |
| 139776 | ALLNET Switch Module ALL4763 SFP+(Mini-GBIC), 10Gbit |
| 139777 | ALLNET Switch Module ALL4764 SFP+(Mini-GBIC), 10Gbit |
| 140675 | ALLNET Switch Module ALL4765 SFP(Mini-GBIC), 1000Mbit |
| 146282 | ALLNET Switch Module ALL4767 SFP+(Mini-GBIC), 10Gbit |
| 146282 | ALLNET Switch Module ALL4767 SFP+(Mini-GBIC), 10Gbit |
| 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 |
| 194705 | ALLNET Switch Modul ALL4794 SFP(Mini-GBIC), 100Mbit, FX/LC, 10Km, single Mode, bis 10Km |
| 194706 | ALLNET Switch Modul ALL4794-INDU SFP(Mini-GBIC), 100Mbit, FX/LC, 10Km, singlemode, Industrial -40/+85 Grad, |
| 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 |
| 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 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, |



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|---------------|--|
| 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, |
| 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, |
| 76091 | Patchkabel RJ45, 15m grau, CAT5e, S-FTP(SF/UTP), Synergy 21, |
| 76117 | RJ45, CAT6 250Mhz, 0,25m gris, S-STP(S/FTP) |
| 76124 | Cordon RJ45, CAT6 250Mhz, 1,0m gris, S-STP |
| 76133 | Cordon RJ45, CAT6 250Mhz, 1,0m gris, S-STP |
| 76151 | Cordon RJ45, CAT6 250Mhz, 2m gris, S-STP |
| 76160 | Cordon RJ45, CAT6 250Mhz, 3m gris, S-STP |
| 76169 | Cordon RJ45, CAT6 250Mhz, 5m gris, S-STP |
| 76178 | Cordon RJ45, CAT6 250Mhz, 7,5m gris, S-STP (S/FTP) |
| 76187 | Cordon RJ45, CAT6 250Mhz, 10m gris, S-STP (S/FTP) |
| 76196 | Cordon RJ45, CAT6 250Mhz, 15m gris, S-STP (S/FTP) |
| 140955 | TP(RJ45) POE-Tester, at/af, Endspan/Midspan, standard, Synergy 21, |