

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

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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-SG9940M-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
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	Power: Green Solid on- power work normal, off- power disconnected System: Green Blink-work normally, solid on- soft work abnormal, fast blink- soft upgrade 10/100/1000T RJ45 Interfaces (Port 1 to Port 12): 1000 LNK/ACT (Green), 10/100 LNK/ACT (yellow), Blink- port connected with data transmission; Solid on- port connected without data transmission 100/1000Mbps SFP Interfaces (Port 12 to Port 40): Green Blink- port connected with data transmission; Solid on- port connected without data transmission 1G/10G SFP Interfaces (Port 41 to Port 44): Blue Blink- port connected with data transmission; Solid on- port connected without data transmission
EMC	Surge Immunity: IEC61000-4-5 ESD Protection: ESD IEC61000-4-2



	EFT IEC61000-4-4
Dimension	440x240x44.5mm
Weight	3.2kg
Working Temperature	-10°C to +45°C
Storage Temperature	-20°C to +70°C
MTBF	50,000hrs

Layer 2 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 tunneling

	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



QOS	Multicast Routing 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 client
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 /tracert 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

Attributes

Attribute	Value
Anzahl Ports PoE/LAN:	0/12
Belüftung Switch:	Mit Lüfter
Einsatzort Switch:	Desktop
LAN Geschwindigkeit:	1Gbit/s
Management:	full managed
SFP Geschwindigkeit:	SFP+ 10GBit
SFP Port Anzahl:	28x SFP + 4x SFP+
Weight:	4 Kg
Warranty:	24.00 Months

Accessories

Part No.	Name
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
143548	ALLNET Switch Module ALL4756 SFP(Mini-GBIC), 1000Mbit, ZX/LC

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
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, 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,

Part No.	Name
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,
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,
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,