

ALLNET Switch full managed Layer2+ 18 Port • 16x GbE • 4x SFP • 19" • Fanless • ALL-SG8618M



EAN CODE



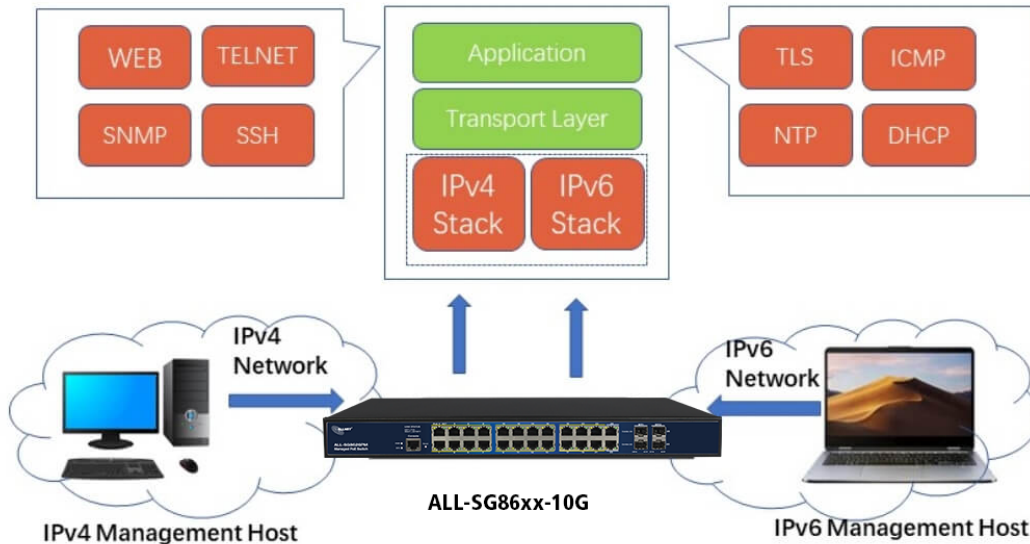
Highlights:

- 16 port Gigabit Layer2+ full managed switch architecture.
- Supports NWay protocol for speed (10/100/1000Mbps) and duplex mode (half/full) auto-detection
- Supports back-pressure (half duplex), flow control (IEEE 802.3x and IEEE 802.3az Energy Efficient Ethernet)
- VLAN 4K Static / Port-Based / Tagged Based / Protocol / Voice VLAN / 802.1ad Q-in-Q
- Link Aggregation static link / LACP / Algorithm MAC based or IP based
- IGMP Snooping 256 groups IGMP v1/v2/v3, Fast Leave
- QoS (QoS>QoS multi-label, queue config, QoS mapping)
- Stormcontrol
- Total fanless, no more annoying noises...
- 19" inch angle or wall/table mounting possible

ALL-SG8618M is a 16* 10/100/1000M RJ45 ports and 2*100/1000M SFP fiber slot ports L2+ managed Ethernet fiber switch, built-in 35W power supply. Support 1U/19 inch rack installation. It is programmed for advanced switch management functions such as **802.1Q VLAN** and **Q-in-Q VLAN**, **Multiple Spanning Tree protocol (MSTP)**, **loop** and **BPDU guard**, **IGMP snooping**, and **MLD snooping**. Also, the **Link Layer Discovery Protocol (LLDP)** is the Layer 2 protocol included to help discover basic information about neighboring devices on the local broadcast domain. It provides a quick, safe and cost-effective Ethernet network solution for small businesses and enterprises.

Solution for IPv6 Networking

With the IPv6/IPv4 dual stack and other management functions, ALL-SG8618M is the best choice for IP CCTV surveillance, VoIP and wireless solution providers to develop the IPv6 network. Meanwhile they help the SMBs to upgrade their network infrastructures to the IPv6 era without any extra investment.



Robust Layer 2 Features

ALL-SG8618M can be programmed for advanced Ethernet fiber switch management functions, such as port aggregation, Q-in-Q VLAN, Spanning Tree Protocol, QoS, bandwidth control, ERPS IGMP/MLD snooping etc. The ALL-SG86xx series allows the operation of a high-speed trunk combining multiple ports.

Powerful Security Functions

ALL-SG8618M 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-SG8618M 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

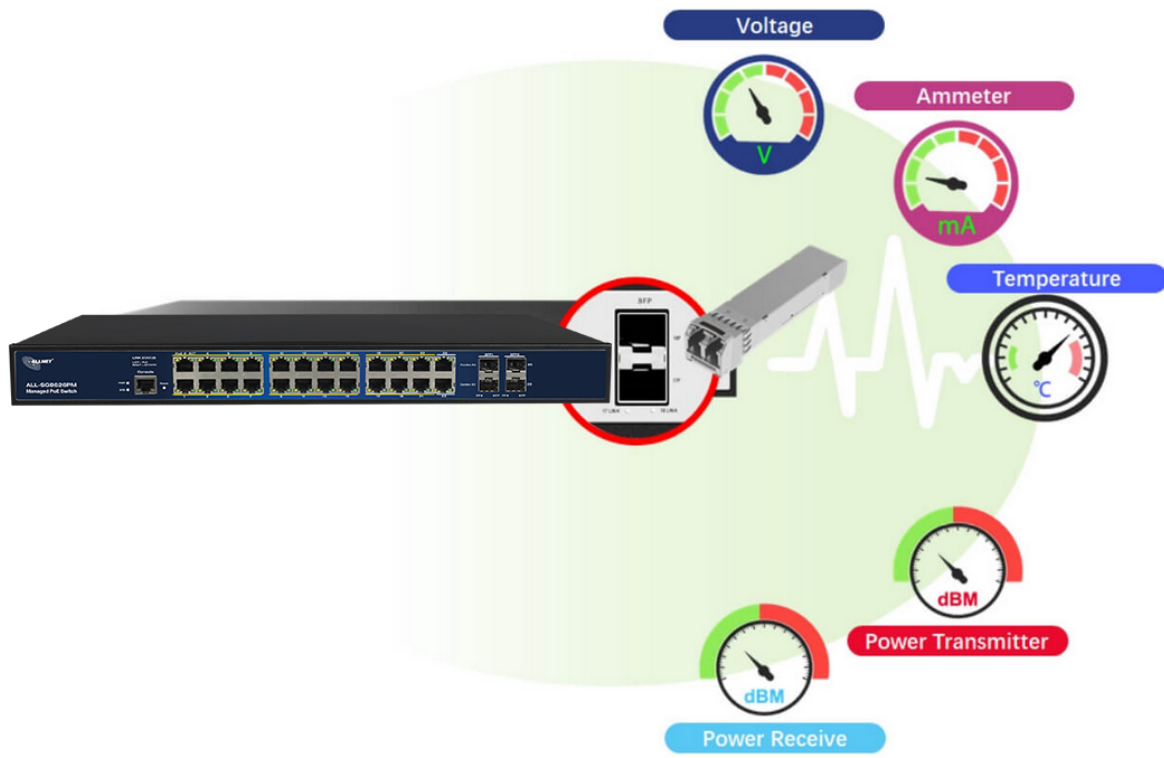
For efficient management, ALL-SG8618M is a managed switch, equipped with console, web and SNMP management interfaces. With management interface, ALL-SG8618M offers an easy-to-use, platform independent management and configuration facility. ALL-SG8618M supports SNMP and it can be managed via any management software based on the standard SNMP v1 or v2 Protocol. Meanwhile ALL-SG8618M offers Cisco-like command via Telnet or console port and customer doesn't need to learn new command from these switches. Moreover, ALL-SG8618M 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-SG8618M support 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.

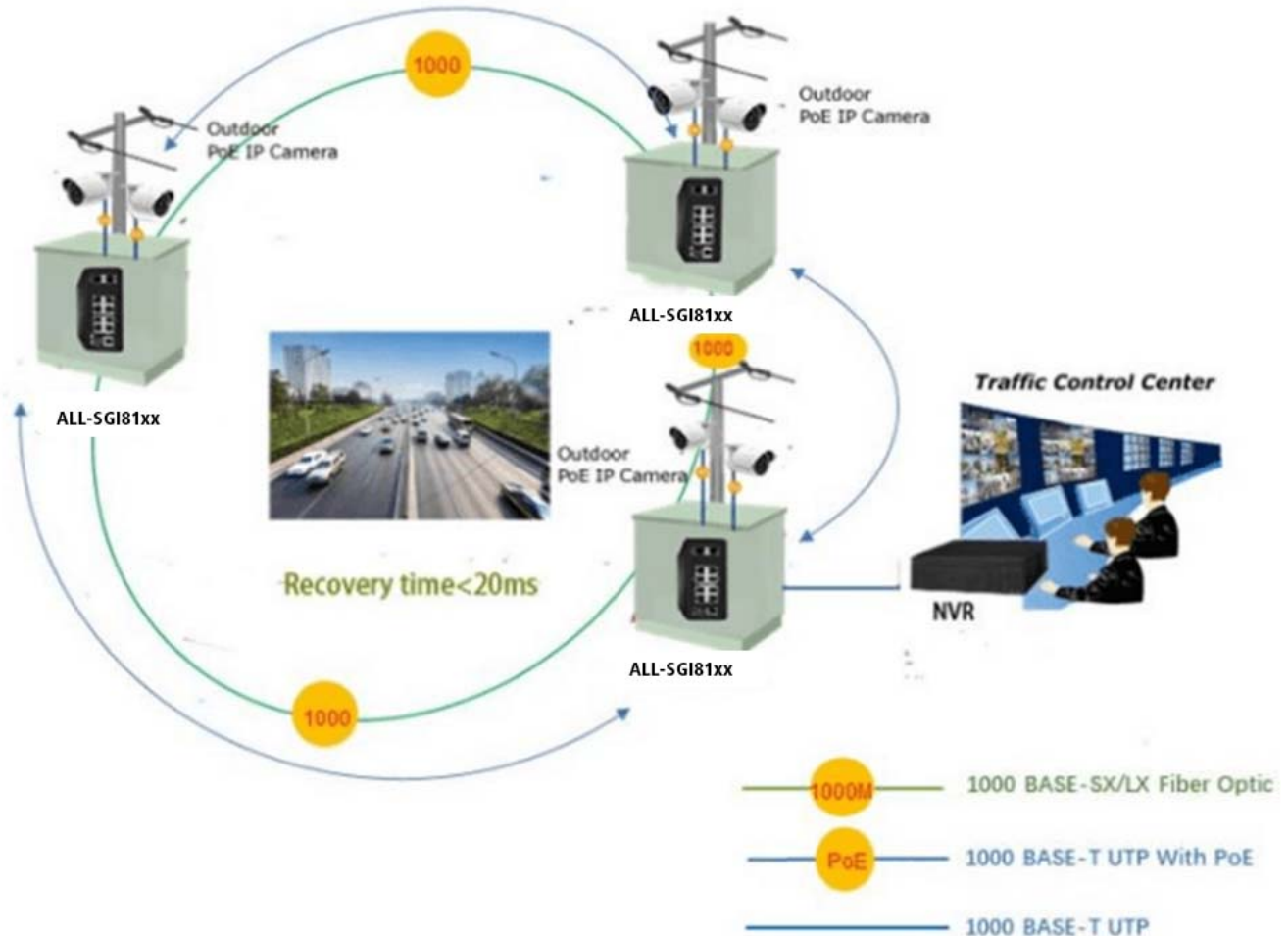
Digital Diagnostic Monitor (DDM)



Fast Recovery Redundant Ring for Critical Network Applications

The ALL-SG8618M 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



Technical Details:

Model	ALL-SG8618M
Copper Ports	16 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
Fiber Ports	2-100/1000BASE-X SFP interfaces, supports 100/1000Mbps dual mode
Console Ports	1 x RS-232-to-RJ45 serial port (115200, 8, N, 1)
Switch Architecture	Store-and-Forward
Switch Fabric	36Gbps/non-blocking
Throughput	23.819Mpps @64 bytes
Address Table	8K entries
Share Data Buffer	4.0 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	12V, 45watts/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 16): 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 17 to Port 18): Green 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
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	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 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 client
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
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Layer 3 functions

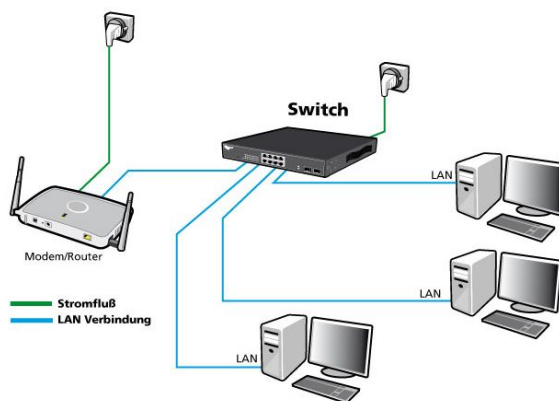
Static Routing	IPv4 Unicast: Static Routing(Software Base) IPv6 Unicast: Static Routing(Software Base)
IPV6	IPv6 neighbor discovery (ND) Path maximum transmission unit (MTU) discovery Internet Control Message Protocol (ICMP) version 6 TCPv6/UDPv6 Ping6 Telnet(v6) Http/Https Interface IPV6 ACL IPV6

Attributes

Attribute	Value
Anzahl Ports PoE/LAN:	0/16
Belüftung Switch:	Lüfterlos
Einsatzort Switch:	19"
Management:	full managed
SFP Geschwindigkeit:	SFP 1GBit

Attribute	Value
Weight:	4 Kg
Warranty:	24.00 Months

Additional Images



Accessories

Part No.	Name
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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,
75959	Patchkabel RJ45, CAT5e 100Mhz, 2m grau, FTP(F/UTP), Synergy 21,
75973	Patchkabel RJ45, CAT5e 100Mhz, 5m 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,
76077	Patchkabel RJ45, CAT5e 100Mhz, 7,5m 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,
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,
234699	ALLNET Switch full managed Layer2+ zbh. Replacement bracket for ALL-SGxx 18/26/28/54 - Short version