

ALLNET Switch full managed industrial 12 Port Gigabit 240W /



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ALLNET Switch full managed industrial 12 Port Gigabit 240W / 8x PoE+ / 4x SFP / Fanless / DIN / "ALL-SGI8112PM"

Highlights:

- 8-Gigabit ports with PoE AF-AT support up to 30Watt per port
- 4x SFP ports for fiber Gbics e.g. ALL4750-INDU / ALL4751-INDU etc.
- PoE Ports 1-8 max. PoE IEEE802.3at 30W
- Layer2+ features like 802.1Q VLAN, Port Isolation IGMP, LLDP, PoE+ Management, IP source Guard, ACLs etc.
- Supports Spanning Tree STP (802.1D) and RSTP (802.1W) and MSTP (802.1s)
- Supports PoE management like PoE scheduling, PoE PD-alive, Port PoE Priority, Soft-Reboot PoE Non-Stop
- Supports G.8032 quick ring protocol. Self-healing <20ms
- Max. PoE budget = 240 watts
- Fanless metal housing with optimized heat dissipation
- Easy to use as a desktop, wall mount or DIN rail device
- Extended temperature range from -40°C ~ +75°C

ALL-SGI8112PM Industrial Switch is a Layer 2+ managed Gigabit PoE Switch that features 8-Port Gigabit 802.3af/at PoE + 4-Port Gigabit SFP optical port, is specially designed to build a full Gigabit backbone to transmit reliable and high-speed data in heavy industrial demanding environments and forward data to remote network through fiber optic cabling. It comes with an IP40 rugged case and redundant power system. The industrial managed switch provides user-friendly but advanced IPv6/IPv4 management interfaces and Soft-reboot PoE Non-stop function. It is the best investment for expanding industrial business or upgrading its network infrastructure.



Features:

- Support L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, PoE+ management, IP Source Guard, ARP inspection, ACLs etc
- Support spanning tree STP(802.1D) and RSTP(802.1W) and MSTP(802.1s)
- Support enhanced management through WEB, CLI, TELNET, SSH, SNMP.
- Support cable diagnosis
- Dual firmware backup
- Support PoE management, like PoE schedule, PoE PD-alive, Port PoE Priority, Soft-Reboot PoE N on-stop
- Support G.8032 quick ring protocol. Self-recovery time <20ms
- Support IEEE1588 v2, transparent clock(TC)
- Support DDM, SFP digital diagnostics monitoring
- Support IPV4 and IPV6 static routing functions
- Support memory and CPU monitoring
- 6KV surge protection, 6KV contact/8KV air ESD protection

Technical Details:

Hardware Specification	
Model	ALL-SGI8112PM
Copper Ports	8-10/100/1000BASE-T RJ45 auto-sensing ports
Fiber Ports	4-100/1000BASE-T SFP interfaces, supports 100/1000Mbps dual mode
PoE Ports	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	24Gbps/non-blocking
Throughput	17.856Mpps @64 bytes
Address Table	8K entries
Share Data Buffer	4.1 Mb
Jumbo Frame	9216 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	48 ~ 57 VDC, 50/60Hz, Dual DC
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)
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 12): Green Blink- port connected with data transmission; Solid on- port connected without data transmission
EMC	Surge Immunity: 6KV Per: IEC61000-4-5 ESD Protection: ESD Level 4 Per: IEC61000-4-2; EFT Level 4 Per: IEC61000-4-4
Dimension	165x123x53.5mm
Weight	1.0kg
Working Temperature	-40°C to 75°C
Storage Temperature	-40°C to 80°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	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
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
Layer3 functions	
Static Routing	IPv4 Unicast: Static Routing(Software Base) IPv6 Unicast: Static Routing(Software Base)
IPV6	IPv6 neighbor discovery (ND)

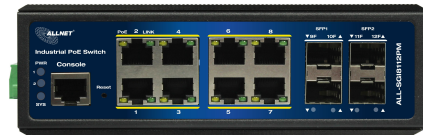


	Path maximum transmission unit (MTU)
	discovery Internet Control Message Protocol
	(ICMP) version 6 TCPv6/UDPv6
	Ping6
	Telnet(v6)
	Http/Https
	Interface
	IPV6
	ACL IPV6

Attributes

Attribute	Value
Anzahl Ports PoE/LAN:	8/4
Belüftung Switch:	Lüfterlos
Einsatzort Switch:	Industrial DIN
LAN Geschwindigkeit:	1Gbit/s
Management:	full managed
PoE Budget:	<300 Watt
PoE Port Leistung:	30W at
SFP Geschwindigkeit:	SFP 1GBit
Weight:	0.5 Kg
Warranty:	36 Months

Additional Images



Accessories

Part No.	Name
128033	ALLNET Switch Modul ALL4750-INDU SFP(Mini-GBIC), 1000Mbit, SX/LC, Industrial -40/+85 Grad,
128034	ALLNET Switch Modul ALL4751-INDU SFP(Mini-GBIC), 1000Mbit, LX/LC, 10Km, Industrial, -40/+85 Grad,
134034	ALLNET Power-Booster 24VDC to 48~55VDC max. 95W DIN Industrial ALL-B100-24VDC,
140523	Synergy 21 Netzteil - 48V 75W Mean Well Hutschiene, schmal
140523	Synergy 21 Netzteil - 48V 75W Mean Well Hutschiene, schmal



Part No.: 195715
Vendor Part No.: ALL-SGI8112PM

Part No.	Name
140522	Synergy 21 Netzteil - 48V 120W Mean Well Hutschiene, schmal
131244	Synergy 21 Netzteil - 48V 240W Mean Well Hutschiene
146994	Synergy 21 Netzteil - 48V 480W Mean Well Hutschiene
140955	TP(RJ45) POE-Tester, at/af, Endspan/Midspan, standard, Synergy 21,
148333	ALLNET 19"zbh. Gerätehalter für Hutschiene/DIN-Rail Geräte, T150mm/5HE, Lichtgrau, Frontmontage,