ALLNET ALL-SG8208M

Smart managed fanless Gigabit Layer-2 Switch

- 8 Port Gigabit non-blocking Switch Architeture
- 10/100/1000Mbps and Duplexmodus (half/full) auto-detection
- Back-pressure (half duplex), flow control (IEEE 802.3x und IEEE 802.3az Energy Efficient Ethernet
- VLAN „64 Static / Port-Based / Tagged Based
- Link Aggregation (IEEE802.3ad LACP & Static Trunk)
- IGMP Snooping (v1/v2/v3)
- QoS (Port Based, Flow, 802.1p, IP-TOS, IP DSCP)
- Stormcontrol (Broadcast, Multicast, Unicast)
- FANLESS Solution
- Wall-Mount option

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Note: Product specification is subject to change without notice.

The ALL-SG88208M provides 8x 10/100/1000Mbps ports. The switch provides performance, QoS, advanced security strategies and rich layer 2 management features. This Gigabit managed switch is cost-effective for the ideal small and medium business solution.

ALL-SG88208M Switch have robust security and management features. The ALL-SG88208M Switch support a lot of features like Flow Control, Spanning Tree, VLAN, Link Aggregation IGMP Snooping & QoS. Anymore, the easy-to-use web management interfaces, along with CLI, SNMP, mean faster setup and configuration with less downtime. For workgroup and departments requiring cost-sensitive Layer 2 Switch and gigabit capability, ALLNET managed Switch ALL-SG88208M provides you the ideal access-edge solution.

Secure Networking
The ALL-SG88208M switch provides IP-MAC-Port-VID Binding, Port Security, Storm control which protect against broadcast storms, ARP attacks, etc. It integrates some typical DoS attacks to select. You can protect these attacks more easily ever than before. In addition, the Access Control Lists (ACL, L2 to L4) feature restricts access to sensitive network resources by denying packets based on source and destination MAC address, IP address, TCP/UDP ports and even VLAN ID.

Advanced QoS features
To integrate voice, data and video service on one network, the switch applies rich QoS policies. Administrator can designate the priority of the traffic based on different options like 8 Priority Queues, Class of Service, Queue Scheduling and Rate Limit. Voice and video are always clear, smooth and jitter free. In conjunction with the Voice VLAN the switch supporting, the voice applications will operate with much smoother performance.

Abundant Layer 2 features
For more application of layer 2 switches, ALL-SG88208M supports a complete lineup of layer 2 features, including 802.1Q tag VLAN, Port Mirroring, Spanning Tree STP/RSTP, Link Aggregation Control Protocol and 802.3x Flow Control function. Any more, the switch provides advanced features for network maintenance. Such as Loop Back Detection, Cable Diagnostics and IGMP Snooping. IGMP snooping ensures the switch intelligently forward the multicast stream only to the appropriate subscribers while IGMP throttling & filtering restrict each subscriber on a port level to prevent unauthorized multicast access.

Enterprise Level Management Features
ALL-SG88208M is easy to use and manage. It supports various user-friendly standard management features, such as intuitive web-based Graphical User Interface(GUI), either administration traffic can be protected through HTTPS encryptions. SNMP (v1/2) support enables the switch to be polled for valuable status information and send traps on abnormal events.

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Technical data:

Interface

Ports	8*10/100/1000 Mbps RJ-45
LED Indicators	1*Power LED (Green), 1*System LED (Green), 24*port LEDs (Link/Act: Green)
Memory	Flash: 16MB, DDRII: 128MB
Reset Button	Reset to default (put it at the front right side)
Power Switch	Power on/off switch
Power Input	Overload protection(by power module fuse) External AC/DC power adaptor 12V/1A

Performance

MAC Address Table Size	8K
Jumbo Frame	10K Bytes
Buffer Memory	524.8K Bytes
Switching Capability	14880pps at 10Mbps, 148810pps at 100Mbps, 1488095pps at 1Gbps with 64bytes packets
Switch Fabric	16Gbps
Forwarding Rate	35.7 million packets per second

Physical & Environmental

Temperature	Operating: 0°C ~ 50°C; Storage: -40°C ~ 70°C
Humidity	Operating: 10% ~ 95% RH, non-condensing
Dimensions (W x D x H)	250*104*27 mm
Certification	EMC/FCC, CE Class B; Safety/LVD EN60950-1
Mountable	Desktop

Specifications

Standard Compliance	IEEE 802.3/802.3u/802.3ab IEEE 802.3x flow control IEEE 802.3az Energy Efficient Ethernet IEEE 802.1p class of service, priority protocols Full-duplex and half duplex operation with IEEE802.3x flow control and backpressure N-way auto-negotiation Store and forward

L2 Features

Flow Control	802.3x (Full-duplex), Back-Pressure (Half-duplex)
Spanning Tree	IEEE 802.1D (STP), IEEE 802.1w (RSTP), Auto Edge Port, Self Loop Detection
VLAN	Static VLAN, Port-based, IEEE 802.1Q Tagged Based
Voice VLAN	OUI Mode
Link Aggregation	IEEE 802.3ad LACP, Static Trunk, Max. Group, Max. Ports/Group, Traffic Load Balancing
IGMP Snooping	Multicast Groups, IGMPv1/v2, IGMPv3 Basic (BISS), IGMP v2/v3 Querier, Immediate Leave
IEEE 802.1AB	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

QoS Features

Priority Queue	8 queues/port
Rate Limit	Port-based (Ingress/Egress)
Queue Scheduling	WRR, WFQ, Strict Priority, Hybrid (WRR+SP or WFQ+SP)
Class of Service	Port-based, Flow-based, 802.1p, IP TOS Precedence, IP DSCP

Security

Storm Control	Broadcast, Unknown Multicast, Unknown Unicast
Secured Web	HTTPS and SSL 2.0
Account Manager	Local Authentication, Multiple User Account, Multi-Level Security (Manager/Operator), Password Recovery Procedures
Additional	Management VLAN, Protected Port (Port Isolation), CPU Defense Engine, DoS Prevention
IEEE 802.1AB	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

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Management

Command Line Interface (CLI)	Console, Telnet (RFC854)
Web-based Management	HTTP, HTTPS
SNMP	Static VLAN, Port-based, IEEE 802.1Q Tagged Based
MIBs	OUI Mode
File Management	IEEE 802.3ad LACP, Static Trunk, Max. Group, Max. Ports/Group, Traffic Load Balancing
Upload/Download	Multicast Groups, IGMPv1/v2, IGMPv3 Basic (BISS), IGMP v2/v3 Querier, Immediate Leave
DHCP	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
DNS	Client
Mirroring	Port-based (Many to One)
Syslog (RFC3164)	Local RAM, Local Flash, Remote Server
Time Setting	Local, SNTP
Cable Diagnostics	Cable Test
Additional	Port Utilization, Reset Button, EEE (802.3az)

Web Interface

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