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Product Specification
A-GEAR S2108/S2108POE
Hi-performance, Network Manageable Gigabit Ethernet Switch

Proudly presented by A-GEAR Tech Co., Ltd, A-GEAR S2108/S2108POE is a modularized hi-performance workgroup-level or enterprise-scale switch, with 8 Fast Ethernet ports and 1 port 10/100/1000M TX/Gigabit SFP for Gigabit connections. A-GEAR S2108 can connect all (Fast) Ethernet devices so that your investment is protected. The hi-speed connection it provides among workgroups can boost the capability of server clusters, and solves the bottleneck caused by increasing users and limited bandwidth, making network resources more readily available to you. More importantly, all of the advantages are brought to you by A-GEAR at low costs and with easy maintenance.

1. Application

- Hi-performance inter-workgroup or enterprise-edge switching

2. Features

2.1. Performance

- 8Gbps switch fabric, non-congestion design, all wire-speed forwarding
- 80-km transfer by Gigabit optical fiber, direct connection to WAN

2.2. Security and reliability

- Quota system for connected hosts per port
- IEEE 802.1x port-based user authentication
- Port trunking adds to bandwidth and redundancy

2.3. Easy maintenance

- Automatic recognition for straight-through or cross-over cables
- Stackable physically and through cluster technology. Central management with unified IP address saves IP addresses

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- Management via CONSOLE port, Web, SNMP, Telnet, etc.
- Software and BootRom upgrade through TFTP

2.4. Traffic and broadcast control

- Auto-detection and restraining of broadcast storm, IGMP snooping, effectively restrict broadcast flooding
- Full- and half- duplex traffic control
- Ethernet port rate limiting with 64 K step size(1 M step size for rate over 1.8 M)
- Advanced buffer management, 802.1p support. 4 dispatching queues per port, mapping the 8 priority queues in 802.1p
- QoS support

3. Specifications

	S2108	S2108POE
Port & Slot	8 * 10/100M TX 1 * GSFP/TX Combo 1 * Console Port	
Switch Fabric	8Gbps	
Forwarding Rate	All wire-speed forwarding and filtering	
Switching Mode	Store-and-forward	
MAC Address Table Size	4K	
Queuing Buffer	32 MB	
Dimensions (L x W x H) (mm)	230 x 147 x 44	340 x 200 x 44
Power Input	AC 100~240 V, 47 ~ 63 Hz, 1A/230V	
LED Indicators	Power, system, link, activity, 10/100M	
Temperature	Operating: 0 ~ 50℃, non-operating: -40 ~ 70℃	
Humidity	0 ~ 90% (no condensing)	
Functions		
Spanning Tree	IEEE 802.1D STP, link path backup, IEEE 802.1w RSTP, IEEE802.1s MSTP	
VLAN	Port-based VLAN, 802.1Q tag VLAN, GVRP, port isolation at per VLAN, QinQ	
VLAN Number	4K, partition at will	
Traffic Control	Back pressure at half-duplex, 802.3x at full-duplex, port rate limiting: 64 K step size	
Storm Control	Stop sending at threshold to restrict broadcast/multicast/ unicast storms	
Multicast Control	IGMP snooping	
Port Trunking	Up to 3 groups with up to 8 ports per group, dynamic LACP or static aggregation	
Stacking	Support hardware stack	

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	S2108	S2108POE
Clustering	Up to 256, manageable through single IP	
Security	IEEE 802.1x port-based user authentication Remote authentication through RADIUS Port Security MAC filtering Port+MAC binding	
QoS	4 dispatching queues per port, mapping the 8 priority queues in 802.1p	
Network Management	SNMP, RMON, Telnet, Command Line Interface (CLI) Support A-GEAR network management tools suite: Broad Director, and other general network management software	
Software Upgrade	TFTP	
Configuration Upload/ download	TFTP	

4. Modules Supported by Gigabit Slots

A-GEAR S2108	Network manageable Ethernet switch with 8 10/100M Fast Ethernet ports, 1 10/100/1000M TX/Gigabit SFP port, and 1 Console port.
A-GEAR S2108POE	Network manageable Ethernet switch with 8 10/100M Fast Ethernet ports support POE, 1 10/100/1000M TX/Gigabit SFP port, and 1 Console port.

The functions and corresponding parameters may change in light of the upgrade of software, modular, etc. The right of final interpretation belongs to A-GEAR. For more information, please contact us.