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Product Specification
A-GEAR S2226G
Hi-performance Gigabit Ethernet Switch

Proudly presented by A-GEAR Tech Co., Ltd, A-GEAR S2226G is a hi-performance workgroup-level or enterprise-scale switch, with 24 Fast Ethernet ports, plus 2 gigabit TX/SFP combo ports. A-GEAR S2226G 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.

Application

• Hi-performance inter-workgroup or enterprise-scale switching

Features

Performance

• 24 Gbps switch fabric, hardware routing, wire-speed L2 forwarding rate: 6.6 Mpps
• 80-km transfer by Gigabit optical fiber, direct connection to WAN

Security and reliability

• IEEE 802.1x and other methods for user authentication
• Powerful ACL supports L2-L7 data filtering
• Support IPv6 ACL
• Selective QinQ support.

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.
- Support (A-GEAR) Broad Director, HP Open View, Cisco Works 2000

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 64K step size
- IP multicast and QoS support
- Jumbo frame

Specifications

	S2226G
Processor	RISC 200MHz
FLASH	4 MB
Memory	32 MB
Port & Slot	24 * 10/100M TX 2 * GSFP/TX combo 1 * Console Port
Switch Fabric	24 Gbps
Forwarding Rate	All wire-speed forwarding and filtering
Switching Mode	Store-and-forward
MAC address Table Size	8 K
Queuing Buffer	64 MB
Jumbo frame	2048
Dimensions (L x W x H) (mm)	442 x 316 x 44
Weight	6.6kg
Power Consumption	28 W (max.)
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, IEEE 802.1w RSTP, 802.1s MSTP
VLAN	Port-based VLAN, 802.1Q tag VLAN, Private VLAN, GVRP dynamic VLAN configuration, selective QinQ
Traffic Control	Back pressure at half-duplex, 802.3x at full-duplex, CAR support, 64K step size for 100-M ports, 8 M step size for Gigabit ports
Storm Control	Stop sending at threshold to restrict broadcast storms

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	S2226G
Multicast Control	IGMP snooping
DHCP	DHCP snooping, DHCP option 82, IP source guard
Port Trunking	Up to 14 groups with up to 8 ports per group, dynamic LACP or static aggregation
Port Mirroring	Supported. Can be based on flow classification
Clustering	Up to 32, manageable through single IP
Security	IEEE 802.1x port-based user authentication Port Security Hardware support for IP ACL, MAC ACL, VLAN ACL Hardware support for IPv6 source/destination/TCP/UDP/ protocol based ACL Hardware support time-based ACL Hardware support DHCP snooping Hardware support DAI, static/dynamic anti-ARP attack Support WEB interface authentication Remote authentication through RADIUS User privilege classification and password protection
QoS	Head Of Line (HOL) blocking prevention mechanism 4 dispatching queues per port, mapping the 8 priority queues in 802.1p Best Effort Service Differentiated Service Strict Priority Weighted Round Robin First Come First Serve TOS re-tagging RTS
Network Management	SNMP v1/v2 RMON (Group 1, 2, 3, 9) Telnet Command Line Interface (CLI) Web interface Support A-GEAR network management tools suite: Broad Director NTP SSH LLDP
Software Upgrade	TFTP/FTP
Configuration Upload/ download	TFTP/FTP

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Order Information

A-GEAR S2226G	Managed, stackable Ethernet switch with 24 10/100M Fast Ethernet ports, 2 * 1000M SFP/TX combo ports, 1 CONSOLE, and standard AC power supply

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.