A-GEAR World Wide Manufacturing

Product Specification
A-GEAR S2228/S2228F/S2228PoE
Hi-performance Gigabit Ethernet Switch

Proudly presented by A-GEAR Tech Co., Ltd, A-GEAR S2228/S2228F/S2228PoE is a modularized hi-performance workgroup-level or enterprise-scale switch, with 24 Fast Ethernet ports(24 100M SFP slots for S2228F), plus maximum 4 gigabit ports. A-GEAR S2228/S2228F/S2228PoE 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

- 36 Gbps switch fabric, hardware routing, wire-speed L2 forwarding rate: 9.5 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
- QinQ support. Double VLAN security

Easy maintenance

- Automatic recognition for straight-through or cross-over cables

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- Stackable physically and through cluster technology. Central management with unified IP address saves IP addresses
- 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 1 M step size
- QoS support
- Jumbo frame

Specifications

	S2228	S2228F	S2228PoE
Processor	MPC 50MHz		
FLASH	4 MB		
Memory	64 MB		
Port & Slot	24 * 10/100M TX 2 * 10/100/1000M TX 2 * GSFP/TX combo 1 * Console Port	24 * 100M SFP slots 2 * 10/100/1000M TX 2 * GSFP/TX combo 1 * Console Port	24 * 10/100M TX 4 * GSFP/TX combo 1 * Console Port
Switch Fabric	36 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 225 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)		

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	S2228	S2228F	S2228PoE
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, 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/multicast/unicast storms		
Multicast Control	IGMP snooping		
DHCP	DHCP snooping, DHCP option 82, IP source guard		
Port Trunking	Up to 6 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 256, manageable through single IP		
Security	IEEE 802.1x port-based user authentication Port Security Hardware support for IP ACL, MAC ACL, VLAN ACL 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 S2228	Managed, stackable Ethernet switch with 24 10/100M Fast Ethernet ports, 2 * 10/100/1000M TX, 2 * 1000M TX/SFP combo ports, 1 CONSOLE, and standard AC power supply
A-GEAR S2228-DC	Managed, stackable Ethernet switch with 24 10/100M Fast Ethernet ports, 2 * 10/100/1000M TX, 2 * 1000M TX/SFP combo ports, 1 CONSOLE, and DC power supply
A-GEAR S2228F	Managed, stackable Ethernet switch with 24 100M SFP slots, 2 * 10/100/1000M TX, 2 * 1000M TX/SFP combo ports, 1 CONSOLE, and standard AC power supply
A-GEAR S2228PoE	Managed, stackable Ethernet switch with 24 10/100M Fast Ethernet ports, 4 * 1000M TX/SFP combo ports, 1 CONSOLE , PoE support, Max. 15.4W power output per 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.