A-GEAR World Wide Manufacturing

Product Specification
A-GEAR S3448
Hi-performance Gigabit Ethernet Switch

As the newest S3400 switch proudly presented by SA-GEAR Tech Co., Ltd, A-GEAR S3448 is the next-generation hi-performance L3 Ethernet switch. It has advanced architecture, 36 Gbps switch fabric, and 13.1Mpps L3 forwarding rate. Its hardware wire-speed L3 switching capability provides a powerful, multi-layered solution not only for enterprises, but also for Internet Service Providers (ISPs) and telecom carriers.

1. Features

1.1. Performance

- 36 Gbps switch fabric, hardware routing, wire-speed L3 forwarding rate: 13.1Mpps
- High port density. 48 100M Fast Ethernet ports and up to 4 Gigabit ports
- 80-km transfer by Gigabit optical fiber, direct connection to WAN

1.2. Security and reliability

- IEEE 802.1x and HTTP user authentication
- Powerful ACL supports L2-L7 data filtering
- Intelligent forwarding, complete defense against viruses like 'Code Red' or 'Blaster'
- RPS power hot standby
- QinQ double VLAN security

1.3. 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.
- Management via CONSOLE port, Web, SNMP, Telnet, etc.
- Support (A-GEAR) Broad Director, HP Open View, Cisco Works 2000

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1.4. Traffic and broadcast control

- Auto-detection, restraining of broadcast storm and IGMP snooping effectively restrict broadcast flooding
- Full- and half- duplex traffic control
- Ethernet port rate limiting with 64 K step size
- IP multicast and QoS support
- Jumbo frame

1.5. Routing protocols

- Static routing
- Support RIP v1/v2, OSPF v2, BEIGRP, BGP v4 and many other dynamic routing protocols
- Support PIM-SM/DM, DVMRP and many other multicast routing protocols

2. Specifications

	S3448
Processor	RISC 300 MHz
FLASH	8 MB
Memory	128 MB (up to 512 MB)
Port & Slot	48 10/100M TX 2 100/1000M Slots 1 Console Port
Switch Fabric	36Gbps
L3 Forwarding Rate	13.1 Mpps, all wire-speed, with filtering
Switching Mode	Store-and-forward
MAC Address Table Size	16 K
Queuing Buffer	64 MB
Jumbo frame	16383
Routing Table Size	30 K
802.1Q VLAN	1 ~ 4094, partition at will
Dimensions (L x W x H) (mm)	442 x 316 x 44
Power	
Consumption	60 W (max.)
Power Input	AC 100 ~ 240 V, 47 ~ 63 Hz, 1A/230V, RPS power hot standby
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, IEEE802.1s MSTP
VLAN	Port-based VLAN, 802.1Q tag VLAN, VLAN Stacking (QinQ), Super VLAN, Private VLAN, GVRP dynamic VLAN configuration

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Traffic Control	Back pressure at half-duplex, 802.3x at full-duplex, CAR support, 64 K step size
Broadcast Control	Stop sending at threshold to restrict broadcast storms
Multicast Control	IGMP snooping
Port Trunking	Up to 32 groups with up to 8 ports per group, dynamic LACP or static aggregation
Port Mirroring	Supported. Can be based on flow classification and based on port
Clustering	Up to 256, manageable through single IP
Unicast	Static, RIP v1/v2, OSPF v2, BEIGRP (compatible with Cisco EIGRP), BGP v4, Intelligent forwarding to defend against virus attacks and illegal access
Multicast	IGMP v1/v2/v3, PIM-SM/DM
Redundant Routing	VRRP
Proxy	Proxy ARP, DNS Proxy
DHCP	DHCP Server/Client/Relay
NAT	Static or dynamic NAT
Security	IEEE 802.1x port-based user authentication QinQ double VLAN Security Port Security Hardware support for IP ACL, MAC ACL Hardware support for port-based user authentication by combinations and bandings of port, IP address, and MAC address Web user 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 WRED, WFQ, SP, and FIFO queuing algorithms Best Effort Service Differentiated Service Strict Priority Weighted Round Robin First Come First Serve TOS re-tagging RTS

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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

3. Order Information

A-GEAR S3448	Stackable Ethernet switch with 48 10/100M Fast Ethernet ports, 2 expansion slots supporting up to 4 Gigabit 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.