

Product Specification

A-GEAR S3424C/S3424F

Hi-performance Gigabit Ethernet Switch



As the newest S3424C/S3424F switch proudly presented by A-GEAR Tech Co., Ltd, A-GEAR S3424C/S3424F is the next-generation hi-performance L3 Ethernet switch. It has advanced architecture, 36 Gbps switch fabric, and 9.6 Mpps 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: 9.6 Mpps
- High port density. 24 100M 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
- 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

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

2. Specifications

	S3424C	S3424F
Processor	MPC 266MHz	
FLASH	8 MB	
Memory	128 MB (up to 512 MB)	
Port & Slot	24 10/100M TX 4 GSFP/TX Combo 1 Console Port	24 100M SFP slots 4 GSFP/TX Combo 1 Console Port
Switch Fabric	36Gbps	
L3 Forwarding Rate	9.6 Mpps, all wire-speed, with filtering	
Switching Mode	Store-and-forward	
MAC Address Table Size	16 K	
Queuing Buffer	64 MB	
Jumbo frame	16383	
Hardware Routing Table Size	4 K	
L2 multicast group	1 K	
L3 multicast group	1 K	
802.1Q VLAN	1 ~ 4094, partition at will	
Dimensions (L x W x H) (mm)	442 x 385 x 44	
Power Consumption	30 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°C, non-operating: -40 ~ 70°C	
Humidity	0 ~ 90% (no condensing)	

A-GEAR World Wide Manufacturing

	S3424C Functions	S3424F
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	
Traffic Control	Back pressure at half-duplex, 802.3x at full-duplex, CAR support, 64 K step size	
Storm Control	Broadcast/Multicast/Unicast	
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	
Proxy	Proxy ARP, DNS Proxy	
DHCP	DHCP Server/Client/Relay, DHCP option 82, IP Source Guard	
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, VLAN ACL Hardware support for port-based user authentication by combinations and bandings of port, IP address, and MAC address Remote authentication through RADIUS User privilege classification and password protection IP Source Guard	
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	

	S3424C	S3424F
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
		TFTP/FTP

3. Order Information

A-GEAR S3424C	24-port 100M + 4-port 1000M Ethernet routing switch (1 CONSOLE, 24 10/100M TX, 4 1000M SFP/TX Combo Ports, AC)
A-GEAR S3424C-DC	24-port 100M + 4-port 1000M Ethernet routing switch (1 CONSOLE, 24 10/100M TX, 4 1000M SFP/TX Combo Ports, DC)
A-GEAR S3424F	24-port 100M + 4-port 1000M Ethernet routing switch (1 CONSOLE, 24 10/100M SFP slots, 4 1000M SFP/TX Combo Ports, AC)
A-GEAR S3424F-DC	24-port 100M + 4-port 1000M Ethernet routing switch (1 CONSOLE, 24 10/100M SFP slots, 4 1000M SFP/TX Combo Ports, DC)

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.