

Product Specification

A-GEAR S2500

Managed Gigabit Ethernet Switch



A-GEAR S2500 is a standard L2 switch, which is capable of high performance and gigabit speed packet forwarding. This series of switch has 6/12/20 RJ45 10/100/1000M TX ports (20 1000M SFP for S2524GX), plus 2/4 TX/SFP combo. Due to its high performance and low cost, A-GEAR S2500 series switch is considered a very competitive Ethernet switching solution for community networking and workgroup networking in enterprise networks.

1. Features

1.1. Excellent performance

- 64 Gbps switch fabric
- Giga optical fiber supports up to 80 km long-distance transfer, direct connection to MAN backbone networks

1.2. Flexibility

- Port1-4 are TX/SFP combo

1.3. Security and reliability

- Support port mirroring
- VLAN to isolate users for performance & security
- QinQ supported
- 802.1x supported

1.4. Easy maintenance

- Management via CONSOLE port, Web, SNMP, etc.
- BootRom and other software upgrade through TFTP
- Support SFP standard interface, protect your investment
- 802.3ah: Discovery, Link Monitoring, Remote Failure Indication

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1.5. Powerful traffic and broadcast management

- Port trunks technology can make a loading balancing links. Each link can reach 24G bandwidth, support up to 8 links.
- Effectively control multicast and broadcast storm
- Jumbo frame

2. Specifications

	A-GEAR S2508	A-GEAR S2516	A-GEAR S2524	A-GEARS2524GX
Port	6 10/100/1000M TX	12 10/100/1000M TX	20 10/100/1000M TX	20 GSFP 4 GSFP/TX
	2 GSFP/TX Combo	GSFP/TX Combo	4 GSFP/TX Combo	Combo
	1 Console Port	1 Console Port	1 Console Port	1 Console Port

Switch Fabric	24G	48G	64G
Forwarding Mode	Store-and-forward		
MAC Address Table Size	8K		
Jumbo frame	9612	12270	

Functions

Spanning Tree	IEEE 802.1D STP, IEEE 802.1w RSTP
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 (except S2508)
Multicast Control	IGMP snooping
Port Trunking	Up to 24 groups with up to 12 ports per group, dynamic LACP or static aggregation
Port Mirroring	Supported. Can be based on flow classification
Security	IEEE 802.1x port-based user authentication Port Security (except S2508) 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 Strict Priority Weighted Round Robin 802.3ah: Discovery, Link Monitoring, Remote Failure Indication

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	A-GEAR S2508	A-GEAR S2516	A-GEAR S2524	A-GEARS2524GX
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			
Software Upgrade	TFTP/FTP			
Configuration Upload/download	TFTP/FTP			
Working Environment				
Temperature	Operating: 0 ~ 50°C, non-operating: -40 ~ 70°C			
Humidity	0 ~ 90% (no condensing)			

3. Order Information

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.