

# Product Specification

## A-GEAR S2528 Managed Gigabit Ethernet Switch



A-GEAR S2528 is an enhanced L2 switch, which is capable of high performance and gigabit speed packet forwarding. This switch has 24 10/100/1000M TX ports, plus 4 SFP slots. Due to its high performance and low cost, A-GEAR S2528 switch is considered a very competitive Ethernet switching solution for community networking and workgroup networking in enterprise networks.

### 1. Features

#### 1.1. Excellent performance

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

#### 1.2. Security and reliability

- QoS supports Layer2-4 traffic classification
- Support port mirroring
- VLAN to isolate users for performance & security
- QinQ VPLS supported
- 802.1x supported

#### 1.3. Easy maintenance

- Management via CONSOLE port, Web, SNMP, etc.
- BootRom and other software upgrade through TFTP
- Support DHCP and relay, provide dynamic IP address assignment
- Support SFP standard interface, protect your investment

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### 1.4. Powerful traffic and broadcast management

- Port trunks technology can make a loading balancing links. Each link can reach 32G bandwidth, support up to 14 groups.
- Effectively control multicast and broadcast storm
- Jumbo frame

## 2. Specifications

A-GEAR S2528	
Port	24 10/100/1000M TX 4 GSFP Slots 1 Console Port
Switch Fabric	72G
Forwarding Mode	Store-and-forward
MAC Address Table Size	8K
Jumbo frame	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
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
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 Head Of Line (HOL) blocking prevention mechanism 4 dispatching queues per port, mapping the 8 priority queues in 802.1p
QoS	Best Effort Service Differentiated Service Strict Priority Weighted Round Robin First Come First Serve

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<b>A-GEAR S2528</b>	
<b>QoS</b>	TOS re-tagging RTS
	SNMP v1/v2 RMON (Group 1, 2, 3, 9) Telnet
<b>Network Management</b>	Command Line Interface (CLI) Web interface Support A-GEAR network management tools suite: Broad Director NTP SSH LLDP
<b>Software Upgrade</b>	TFTP/FTP
<b>Configuration Upload/ download</b>	TFTP/FTP
<b>Working Environment</b>	
<b>Temperature</b>	Operating: 0 ~ 50°C, non-operating: -40 ~ 70°C
<b>Humidity</b>	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.