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Product Specification
A-GEAR S2548GX
Managed Gigabit Ethernet Switch

A-GEAR S2548GX is an enhanced L2 modular switch, which has high performance and gigabit speed packet forwarding. This series of switch has 44 1000M SFP plus 4 TX/SFP combo. Due to its high performance and low cost, A-GEAR S2548GX switch is considered a very competitive Ethernet switching solution for community networking and workgroup networking in enterprise networks.

1. Features

1.1. Excellent performance

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

1.2. Flexibility

- Port45-48 is TX/SFP combo.

1.3. Security and reliability

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

1.4. Easy maintenance

- Management via CONSOLE port, Web, SNMP, etc.
- BootRom and other software upgrade through TFTP

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- Support DHCP relay
- Support SFP standard interface, protect your investment

1.5 Powerful traffic and broadcast management

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

2. Specifications

	A-GEARS2548GX
Port	44 gigabit SFP slots 4 SFP/TX Combo 1 Console Port
Switch Fabric	128G
Forwarding Mode	Store-and-forward
MAC Address Table Size	8K
Jumbo frame	16383
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
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
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

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QoS	Strict Priority Weighted Round Robin First Come First Serve DSCP 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
Software Upgrade	TFTP/FTP
Configuration Upload/ download	TFTP/FTP
Working Environment	
Temperature	Operating: 0 ~ 50℃, non-operating: -40 ~ 70℃
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.