Product Description

This section Gigabit switch is a BCM chip based on the standard three-layer non-blocking switch. With modular design, 24 10/100/1000 adaptive electrical ports (support POE expansion), 8 multiplexed SFP optical ports, 4 integrated 10G optical ports, providing sufficient data for aggregation and core data exchange Of the bandwidth; to provide high-capacity switching capabilities to support based on the three or four layers of ACL function. Perfect security control strategy and CPU protection policy to improve fault tolerance and ensure stable operation of the network and link load balancing. The device supports automatic DoS attack defense and SNMP, IEEE 802.1, spanning tree and spanning tree protocol, Link aggregation and other functions, suitable for small and medium enterprises, campus network, Internet cafes and the use of the edge of the metropolitan area network.

Product Features

- With 128G backplane bandwidth, wire-speed three-tier exchange packet forwarding rate of 96Mpps
- Support software dynamic routing, static routing function
- Support IEEE 802.1Q VLAN、MAC VLAN、VLAN、Private VLAN and VLAN VPN
- Support traditional STP / RSTP / MSTP Layer 2 link protection technology to ensure stable operation of the network
- Supports 24 port Power Over Ethernet
- Can be managed through the Web, SNMP Console telnet and other ways.
- Support 10 Gigabit port aggregation function: link aggregation, improve network bandwidth; link backup, to ensure network security
- Supports port-based user IP + MAC address authentication
- Support CPU protection strategy, the CPU packets sent to the traffic classification and flow limit, to avoid illegal attacks on the CPU attacks and resource consumption
- Support storm control function, can unicast, broadcast, unknown unicast message storm suppression
- Support restore factory settings via reset button
- Support ring network detection, innovative network diagnostic function
- Low-carbon environmental protection and energy conservation, follow the IEEE 802.3az port to provide low-power idle mode, according to the cable length of the corresponding output power adjustment, and support port sleep
- Industrial IP30 protection class, EMC circuit design, support wide temperature and wide voltage, dual redundant backup power supply, fanless noiseless machine thermal design

Product technical parameters

Model No.	HR600M-AF-SWG2428　HR600M-AT-SWG2428
Basic characteristics	
Fixed port	24*10/100/1000 Self-adaptive POE ports,8 SFP Combo ports + 4 ports 10G Ethernet port , 1 console port
Bandwidth	128Gbps
Forwarding rate	96Mpps
Processor	ARM® Cortex™-A9
Flash memory capacity	8MB
Memory Capacity	256M
MAC address table	12K
Queue buffer	64MB
Remote upgrade	Support upgrade through the web version or　the local version upgrade
Size	440x350x44mm
Power supply characteristics	AC110-240V- DC5V-48V
Power	NO POE ≤20W, POE≥360W(Af) , POE≥500W(At)
Indicator light	Power indicator、System indicator、POE、 Link/Act
Enviromental tem./humidity	-40-75℃ Operating,-45-85℃ store,0-90% No condensation

1.L2 Software Features			
1.1	Port managment	Enable/Disable port	
		speed、duplex、MTU Setting	
		flow-control	
		Port information view	
1.2	Port mirroring	Support port access direction, vlan mirror	Vlan mirroring only supports command line configuration
1.3	Port speed limit	Support , speed limit by the chip	
1.4	Port isolation	Support	
1.5	Storm suppression	Supports unknown unicast, unknown multicast, broadcast storm suppression	
1.6	Link aggregation	Supports static manual aggregation	
		Support LACP dynamic aggregation	
1.7	VLAN	access	
		trunk	
		hybrid	Replaced by trunk
		Supports VLAN assignment based on port, protocol, MAC	
		Support GVRP dynamic VLAN registration	Only supports command line configuration
		Voice VLAN	
1.8	MAC	Support static add, delete	
		MAC address learning limit	
		Support for dynamic aging time settings	
1.9	Spanning Tree	Support 802.1d (STP)	Alson Support ERPS (Private agreement)
		Support 802.1w (RSTP)	
		Support 802.1s (MSTP)	
1.10	IGMP-snooping	Support static add, delete	
		Supports v1 / 2/3 dynamic multicast listening	
2.L3 Software and Routing Function			
2.1	Interface configuration	Support SVI	
2.2	ARP	Support Static ARP	
		Support Set ARP Aging time	
2.3	VRRP	Supports VRRP route backup	
2.4	ND	Support IPv6_ND Configuration	
2.5	Routing	Static Router	
		RIP（V1/V2）	
		OSPF(V2)	
		BGP	
		RIP/OSPF/BGP Support route authentication function	
		RIP/OSPF/BGP Support route import, filter function	
3.Extension			
2.1	ACL	Based on source MAC, destination MAC, protocol type,	

		source IP, destination IP, L4 port number	
		Support time-range time period management	
2.2	QOS	Based on 802.1p (COS) classification	
		Based on DSCP classification	
		Based on source IP, destination IP, port number classification	
		Support SP, WRR, DRR scheduling strategy	
		Support rate speed limit CAR	
2.3	LLDP	Supports LLDP link discovery protocol	
2.4	User setting	Add/Delete users	
2.5	Log	User login, operation, status, event log	
2.6	Anti-attack	DOS Defense	
		Support CPU protection, limit the rate of sending cpu packets	
		ARP Bind(IP、MAC、PORT Bind)	
2.7	Network diagnosis	Support ping、telnet、trace	
2.8	System management	Device reset, configuration save / restore, upgrade management, time setting, and so on	
4.Management Function			
3.1	CLI	Supports serial command line management	
3.2	TELNET	Support telnet remote management	
3.3	WEB	Support L2	
5.Others			
5.1	Support DHCP Snooping、DHCP Server、DHCP relay		
5.2	Support ring protection - this feature is “ERPS” above the list		
5.3	Support SNMPV1/V2C/V3		

Warranty & Certifications

Warranty	3 years
Certifications	ROHS,3C
	European Community (CE) Electromagnetic Compatibility Directive:This equipment has been tested and found to comply with the protection requirements of European Emission Standard EN55022/EN60555-2 and the Generic European Immunity Standard EN50082-1. EMC: EN55022(1988)/CISPR-22(1985)，class A EN60555-2(1995)，class A EN60555-3 IEC1000-4-2(1995)，4K V CD, 8KV, AD IEC1000-4-3(1995)，3V/m IEC1000-4-4(1995)，1KV – (power line), 0.5KV – (signal line)
	Federal Communications Commission (FCC) statement:This equipment has been tested and found to comply with the limits for a class A computing device pursuant to Subpart J of part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.