



◆ Product Description

This section Gigabit switch is a BCM chip based on the standard three-layer non-blocking switch. With modular design, 24*1000M SFP port, 8 multiplexed TP 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 back plane bandwidth, wire-speed three-tier exchange packet forwarding rate of 96Mpps
- ❖ Support software dynamic routing, static routing function
- ❖ Auto MDI/MDI-X, Full duplex: Flow control, Half duplex: Back pressure
- ❖ 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
- ❖ Web-based GUI and CLI management
- ❖ 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 uni-cast, broadcast, unknown uni-cast 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 IP40 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.		PR-PE24F4-M-AF(AT)	
Basic characteristics			
Fixed port		24*1000M SFP ports,8 TP Combo ports + 4 ports 10G SFP port , 1 console port	
Standard and Protocols		IPv4/IPv6, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3ad, IEEE 802.3x, IEEE 802.3az, IEEE 802.1d, IEEE 802.1s, IEEE 802.1w, IEEE 802.1q, IEEE 802.1x, IEEE 802.1p	
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	
Dimension		Product size:444x360x44mm weight:2.7KG	
Power supply characteristics		AC110-240V- DC5V-48V	
Power		NO POE≤20W,POE≥360W(Af),POE≥500W(At)	
Indicator light		Power indicator,System indicator,Link/Act	
Enviromental tem./humidity		-40-75℃ Operating,-45-85℃ store,0-90% No condensation	
1.L2 Software Features			
1.1	Port management	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	
		access	
		trunk	
		hybrid	Replaced by trunk
1.7	VLAN	Supports VLAN assignment based on port, protocol, MAC	
			Only supports command line configuration
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)	Also Support ERPS (Private agreement)
		Support 802.1w (RSTP)	
		Support 802.1s (MSTP)	
1.10	IGMP-snooping	Support static add, delete	
2.L3 Software and Routing Function			
2.1	Interface configuration	Support SVI	
2.2	ARP	Support Static ARP	
		Support Set ARP Aging time	

2.5	Routing	Static Router	
		RIP（V1/V2）	
		OSPF(V2)	
		RIP/OSPF/ Support route authentication function	
		RIP/OSPF/ 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 log in, operation, status, event log	
2.6	Anti-attack	DOS Defense	
		Support CPU protection, limit the rate of sending cpu packets	
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	5 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 Sub-part J of part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.