

# POE SWITCH SYSTEM PRODUCTS

30 Port 2.5G L3-Mnaged Switch



## OVERVIEW

This series of switches is a new generation of high performance and large capacity Ethernet switches launched, equipped with its own modular operating system, providing larger table specifications, faster hardware processing performance and more convenient operation experience.

The device provide 24 port 2.5G copper port and 6 Port GE/10G SFP+ port, In addition to supply PoE+ and PoE++ (IEEE802.3af/at/bt). It supports virtualization stacking, rich L3 routing protocol, industrial-grade Ethernet network and other functions. Enable this series of products to meet the application requirements of various complex scenarios.



## FEATURE

### Carrier-level reliability

- Based on Hitless Protection System (HPS), the key components such as power supply modules, are redundant backup and hot-swappable, which supports seam less switchover in case of failure without manual intervention.
- Supports STP/RSTP/MSTP, VRRP, ringnetwork protection, dualuplink active/standby link protection, LACP and other simple and efficient redundancy protection mechanisms;

### Intelligent stacking

- Multiple switches that support stacking features are combined together and logically combined into one virtual switch. The stacking system improves the reliability of the equipment level through redundant backup between multiple member devices;

### Perfect security mechanism

- With a variety of internal mechanism scan effectively prevent and control the spread of viruses and hacker attacks, such as the prevention of DoS attack, anti-hacker IP scanning mechanism, port ARP message legitimacy check, a variety of hardware ACL strategy, etc., but also the network green;

### IPV 4 / IPV 6 double stack

- Hardware supports IPV4 / IPV6 dual protocol stack multi-layer line speed exchange, hardware distinguishes and processes IPV4 and IPV6 protocol messages, can plan the network or maintain the network status quo according to the requirements of IPV6 network, and provide flexible IPV6 network communication scheme. Support for a rich IPV4 / IPV6 protocol;

### Strong business support

- Support IPv4, IPv6 multicast function, including rich multicast protocol. Such as IGMP Snooping , IGMP, MLD, PIM, PIM for IPv6, and other protocol families
- Support IGMP source port and source IP check function, effectively eliminate illegal multicast source, improve the network security.
- Support the rich three-layer features and service features such as equivalent routing , to meet the communication needs under different network link planning

### PoE+ + support(Only PoE Model)

- Support IEEE802.3af/at/bt standard, Single port supports up to 90W
- In the PoE model, in addition to 16 ports support PoE + , another 8 ports support PoE+ +

### SPECIFICATIONS

I/F	Down link	24*100M/1G/2.5G BAS E-T
	Up link	6*SFP+
	CONSOLE	x1
	PoE	8*POE++/90W Max 16*POE+/30W Max
Ethernet performance	Forwarding rate	90 Mpps
	Switching capacity	9600,8,N,1
	Baud rate	120Gbps
	Jumbo Frame	9KB
	MAC Table	32KB
	Buffer	1.5MB
	L3 tables	8K
	ARP table	12K
Power	PSU	AC100-240V,50HZ,850W
	Power Consumption	<85W(no PD device)
MTBF	MTBF	400K Hr Telcordia SR-332
Dimensions	LxWxH(mm)	440*280*44
working temperature		0°C ~ 45°C Altitude of 1800~5000m: for 220m, the maximum temperature decreases by 1°C .
Working humidity		10% ~ 90% RH
Storage temperature		-40 ~ 70°C
Store humidity		5% ~ 95% RH
Work altitude		-500~5000m (For each 220m elevation, the maximum temperature is decreases by 1°C )
Dust prevention		Under static conditions, the number of dust particles of 0.5 μm in the air of the main machine room is less than 18,000 grains / l

## SOFTWARE FEATURES

Routing	Support ipv4/ipv6 stack
	Static routing , RIP v1/v2, OSPF, BGP
	RIP ,OSPF,BGP
	VRRP Policy Based Routing (PBR)
Mac	Support for static configuration and dynamically learning of MAC
	Support to view and clear the MAC addresses
	The MAC address aging time is configurable
	Support the MAC address learning quantity limit
	Support the MAC address filtering function Supports the IEEE 802.1AE MacSec security control
VLAN	GVRP
	QinQ
	Private VLAN
	voice vlan
Ring protection	802.1D (STP) 、 802.1W (RSTP) 、 802.1S (MSTP)
	EAPS
	ERPS
Multicast	IGMP v1/v2/v3
	IGMP Snooping
	IGMP Fast Leave
	Multicast group policy and multicast number limit
	Multicast filtering
	MVR
	PIM-DM/SM/SSM
IPv6	ICMPv6、 DHCPv6、 ACLv6、 IPv6 Telnet
	IPv6 neighbor discovery
	Path MTU discovery
	MLD v1/v2
	MLD Snooping
DHCP	DHCP Server
	DHCP Relay
	DHCP Client
	DHCP Snooping
ACL	L2/L3/L4 ACL
	IPv4、 IPv6 ACL
	VLAN ACL
QoS	Traffic classification of port/L2~ 4 protocol headers/VLAN/CoS/DSCP
	CAR traffic control
	802.1P/DSCP priority mapping and remark
	SP、 WRR、 SP+ WRR
	Tail-Drop、 WRED
	Traffic supervision and traffic shaping

Security	DDoS attack prevention, TCP-SYN/UDP/ARP Flood attack prevention
	802.1x
	Broadcast/m ulticast/unknown-unicast storm -control
	Port isolation, Security, MAC address lim itation, IP+ MAC+ port binding
	DHCP sooping , DHCP option82
	DAI(Dynam ic ARP Inspection)
	Radius,BDTacacs+ ,AAA
	Multiple user privileg es
Reliability	802.3ad Static/LACP link ag g reg ation,
	UDLD
	OAM
	VRRP
	ERPS,EAPS
	VRRP
	BFD
ISSU	
Management	CLI: Console, Telnet, SSHv1/2
	Virtual stacking system
	Web-GUI: HTTP, HTTPS/SSL
	SNMP v1/v2/v3
	Upload and download of FTP/TFTP/SFTP files
	Syslog ,RMON
	sFLOW
ZTP	

## ORDER INFOMATION

PRODUCT	PART NUMBER
30 Port 2.5G L3-Mnaged Switch	SW-L3M-24G-6SFP