

## Product Overview



PM208TSM is our self-developed Layer 3 10G Fiber Managed Switch with 8\*10Gbps SFP+ fiber modules and 1\*Console port, providing complete security policy, perfect QoS policy and rich VLAN function, easy to manage and maintain, meeting the networking and

access requirements of Enterprises, Communities, Hotels, Office Networks and Campus Networks.

## Product Features

- IEEE802.3x full-duplex flow control and Backpressure half-duplex flow control;
- Backward compatible with 1000M/2.5Gbps transmission rate;
- 10Gbps SFP+ optical modules are required, supporting SR/LR/LRM/ER/ZR and other models;
- Layer 3 routing protocol control, adaptable to multiple services, efficient and secure information transmission;
- Support static convergence and dynamic convergence (LACP) 2 convergence modes, effectively increase the link bandwidth, improve the reliability of the link, and at the same time can achieve load balancing, link backup;
- Flexible and convenient management and maintenance Supports various management modes, such as Console, Telnet, and SSH;
- Support WEB management, simple and efficient, convenient for installation and debugging of engineering and maintenance personnel;
- Supports file upload and download management through TFTP.

## Product Specifications

### Hardware Specifications

<b>Model</b>	PM208TSM V1
<b>Interface</b>	8*1000M/2.5Gbps/10Gbps SFP+ Slots 1*Console Port
<b>Standard</b>	IEEE802.3, IEEE802.3z, IEEE802.3ae, IEEE802.3x, IEEE802.1X, IEEE802.1Q, IEEE802.1p, IEEE802.1d, IEEE802.1w, IEEE802.3ad
<b>Network Media</b>	1000BASE-X: MMF, SMF 10GBASE-X: MMF, SMF 10GBASE-SR: OM1/OM2/OM3 or above MMF (2m~300m) 10GBASE-LR: IEC's B1.1 and B1.3 SMF (2m~10000m)
<b>Indicator</b>	PWR(Green), LNK/ACT(Green/Orange), SYS(Green)
<b>MAC Address Table</b>	16K, Auto-learning, Auto-updating
<b>Jumbo Frame</b>	12KBytes
<b>Packet Buffer</b>	12Mbits
<b>Transfer Mode</b>	Store-and-forward
<b>Packet Forward Speed</b>	119.04Mpps
<b>Switching Capacity</b>	160Gbps
<b>Dimensions(L*W*H)</b>	168*94*32mm, Black
<b>Power Inputs</b>	External adapter,DC,12V/2A
<b>Operating Temperature</b>	0°C ~ 40°C
<b>Storage Temperature</b>	-40°C ~ 70°C
<b>Operating Humidity</b>	10% ~ 90% non-condensing
<b>Storage Humidity</b>	5% ~ 90% non-condensing
<b>Surge Protection</b>	Differential mode ±1KV, Common mode ±2KV
<b>Electrostatic Standard</b>	Contact ±6KV , Air ±8KV
<b>MTBF</b>	>100000 hours

## Software Specification

<b>L3 Features</b>	<b>DHCP Server</b>	DHCP Server DHCPv6 Server
	<b>Route</b>	Static Route(IPV4/IPV6) Route Aggregation
	<b>RIP</b>	RIP v1/v2
	<b>OSPF</b>	OSPF v2
	<b>BGP</b>	BGP4
<b>L2 Features</b>	<b>MAC Address Table</b>	MAC Aging Time MAC Filter MAC Notification
	<b>Basic Management</b>	Console/Telnet/SSH Http/Https,SSL/TLS FTP/TFTP Syslog SNMP(v1/v2c/v3),SNMP Trap SNTP/NTP CPU protect Software/Hardware watchdog Firmware Upgrade/Backup Ping/Traceroute
		Bandwidth Control Flow Control EEE MTU CFM(802.1ag) EFM OAM(802.3ah) DDM Storm Control Port Isolation Port Security Virtual Cable Test ULDP/Cisco UDLD
	<b>Port Config</b>	
	<b>Discovery</b>	LLDP(802.1ab) LLDP-MED
	<b>Link Aggregation</b>	Static LACP(802.3ad) Load Balance(src-mac/dst-mac/src-ip/dst-ip) Max groups and ports per group
	<b>VLAN</b>	VLAN(802.1Q 4K) Access/Trunk/Hybrid Private VLAN VLAN Filter MAC-based VLAN Protocol-based VLAN IP Subnet-based VLAN Voice VLAN GVRP/GMRP QinQ/Selective-QinQ/Flexible QinQ VLAN Translation/N:1 VLAN Translation Guest VLAN
	<b>Network Loop Detection</b>	Loopback Detection ERPS
	<b>Spanning Tree</b>	STP/RSTP/MSTP MSTP Support 64 instance BPDU Guard/Root Guard/BPDU Tunnel

	<b>ARP</b>	Static ARP
		ARP Scanning Prevention
		ARP Spoofing Prevention
		ARP Guard
		Gratuitous ARP
		Dynamic ARP Inspection
		ARP Quantity Control
<b>IPv4 Related Function</b>	<b>ICMP</b>	Anti ICMP Attack
		ICMP Rate Limit
		ICMP Unreachable Drop
	<b>Control Multicast</b>	DCSCM
	<b>Multicast VALN</b>	Multicast VALN
	<b>IGMP</b>	IGMP SNOOPING V1/V2/V3
		Fast Leave
		IGMP Proxy
	<b>DHCP</b>	DHCP Client/BOOTP
		DHCP Relay
		DHCP Snooping
		DHCP Option 82/43/60/61/67
<b>IPv6 Related Function</b>	<b>IPv6 Basic</b>	IPv6 ND Snooping
	<b>DHCPv6</b>	DHCPv6 Relay
		DHCPv6 Snooping
		IPv6 SAVI
		Security RA
	<b>IPv6 Unicast Routing</b>	Static Route
	<b>IPv6 Multicast Routing</b>	MLD v1/V2 Snooping
	<b>IPv6 Features</b>	SNMP over IPv6 Support
		HTTP over IPv6 Support
		SSH over IPv6 Support
		DNS over IPv6 Support
		IPv6 ping/traceroute Support
		IPv6 Telnet Support
		IPv6 Radius+ Support
		IPv6 Tacacs+ Support
		IPv6 SNTP/NTP Support
		IPv6 FTP/TFTP Support
		IPv6 IPsec Support
		IPv6 ACL
<b>QoS(Quality Of Service)</b>	<b>Basic</b>	Trust COS/DSCP
		Trust Port
	<b>Scheduling</b>	SP
		WRR
		WDRR
	<b>PolicyMap Stream</b>	Based on VLAN
		Based on COS/DSCP
		Aggregate PolicyMap
		Ingress PolicyMap
	<b>Policing</b>	CAR Stream Shaping(leak algorithm)
		Ingress Policing
	<b>Rewrite</b>	COS/802.1p Priority
		IP Precedence
		IPv4 DSCP/IPv6 DSCP
		drop-precedence
		internal-priority
	<b>Queuing</b>	Ingress/Egress Rewrite
		DSCP to DSCP mapping

		DSCP to DP mapping
		DSCP to Queue mapping
		COS to DP mapping
		COS to Queue mapping
ACL	IP-ACL	SIP/DIP
		IP Protocol
		IP Priority(DSCP,TOS, Precedence)
		TCP,UDP src,dst Port
	MAC-ACL	SRC/DST MAC
		VLAN
		COS
		Tag/Untag
	IP-MAC ACL	MAC-ACL and IP-ACL
	User-defined ACL	Base on user defined profile
Security	802.1x	Based on time period ACL
		ACL on VLAN
		Based on ACL Stream
		Port Based Authentication
	MAB	Support EAPoR
		MAC based Authentication
	MAC Address Count Limit	Guest VLAN
		Based on Port Authentication
	IP Address Count Limit	Based on MAC Authentication
		Based on Port
	Access Management	Based on VLAN
		Based on Port
	Deny DoS Attack	Based on VLAN
		Based on source mac and IP address
		TCP Flag
		TCP Fragment
	TACACS+	IP Segment
		ICMP
Redundancy Related Function	MRPP	Standard Support
	ULPP	Standard Support
		Client, Support MD5
	ULSM	Openssl 1.1.0
		Compatible ERPP
Flow Monitor Function	Mirror	Uplink Protection Protocol
		Smart Link/Monitor Link
		Uplink State Monitor
		Support one to one, multi to one
		Port based mirror, support ingress, egress, and both
		CPU based mirror
		Flow based mirror
		RSPAN

## Ordering Information

<b>Model</b>	PM208TSM V1
<b>Product Information</b>	8*10G SFP+ L3 Fiber Managed Switch
<b>Packaging Accessories</b>	<ul style="list-style-type: none"> <li>● Power Adapter *1</li> <li>● Console*1</li> <li>● Feet *4</li> <li>● User Manual *1</li> </ul>