



#### **Product Overview**

Layer 3 10GE Uplink Managed PoE Switch with 8\*10M/100M/1000M/2.5Gbps adaptive RJ45 ports, 2\*10Gbps SFP+ fiber module expansion slots and 1\*Console port. 1-8 RJ45 ports support IEEE802.3af/at standard, single port maximum output 30W. Support static routing function, provide complete security policy, perfect QoS policy and rich VLAN function, easy to manage and maintain, meet the requirements of Enterprise, Community, Internet Cafe, Hotel, Office Network and Campus Network Networking and WIFI coverage.

### **Product Features**

- Support IEEE 802.3af/at standard;
- Automatic detection and identification of standard PoE powered devices, intelligent power supply to prevent burning of non-standard PoE powered devices or common devices;
- Support port power priority to ensure continuous power supply to critical nodes of the network;
- Panel lights monitor operating status and assist in failure analysis;
- Supports IEEE802.3x full-duplex flow control and Backpressure half-duplex flow control;
- 10Gb optical port adaptive 1000M/5G/10Gbps standard optical module, support SR/LR/LRM/ER/ZR and other models;
- Layer 3 routing protocol control, adapted to multiple services, efficient and secure information transmission;
- Supports dual IPV4 and IPV6 protocol stacks
- Static routes and dynamic routing protocols such as RIP, OSPF, and BGP are supported
- 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 support Console, Telnet, SSH and other management methods:
- Support WEB way management, more simple and efficient, easy to install and debug engineering and maintenance personnel;
- Support HTTP/TFTP/FTP file upload and download management.

# **Product Specifications**

## **Hardware Specifications**

Model	PM3010TSM V1		
Interface	8*10M/100M/1000M/2.5Gbps RJ45 Ports 2*1000M/2.5G/10Gbps SFP+ Slots 1 Console Port		
Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x,IEEE802.3ad,IEEE802.3bz, IEEE802.3ae,IEEE802.1x, IEEE802.1q, IEEE802.1p, IEEE802.1d,IEEE802.1w,IEEE802.3af, IEEE802.3at		
Network Media	10BASE-T: UTP category 3,4,5 cable(≤100m) 100BASE-TX: UTP category 5, 5e cable(≤100m) 1000BASE-TX: UTP category 5e, 6 cable(≤100m) 2.5GBASE-TX: UTP category 6, 6A cable(≤100m) 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)		
Indicator	PWR (Green), LNK/ACT (Green/Orange), SYS (Green), PoE (Orange)		
MAC Address Table	16K, Auto-learning, Auto-updating		
Jumbo Frame	12KByte		
Packet Buffer	12Mbit		
Transfer Mode	Store-and-forward		
Packet Forward Speed	59.52Mpps		
Switching Capacity	80Gbps		
PoE Port	Port1~8		
PoE Power On RJ45	1/2(-),3/6(+)		
PoE Power Output	30W(Max)		
PoE Power Budget	150W		
Power Supply	180W Built-in power supply		
Input Power Supply	AC: 100~240V, 50/60Hz, 2.5A Max		
Dimensions(L*W*H)	330*230*44mm, Black		
Operating Temperature	0°C ~ 40°C		
Storage Temperature	-40°C ~ 70°C		
Operating Humidity	10% ~ 90% non-condensing		
Storage Humidity	5% ~ 90% non-condensing		
Surge Protection	Differential mode ±2KV,Common mode ±4KV		
Electrostatic Standard	Contact ±6KV, Air ±8KV		
MTBF	>100000 hours		

### **Software Specification**

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	DHCP Server	DHCP Server
	Dilei Server	DHCPv6 Server
L3 Features	Route	Static Route(IPV4/IPV6)
		Route Aggregation
	RIP	RIP v1/v2
	OSPF	OSPF v2
	BGP	BGP4
		MAC Aging Time
	MAC Address Table	MAC Filter
		MAC Notification
		Console/Telnet/SSH
		Http/Https、 SSL/TLS
		FTP/TFTP
		Syslog
	Basic Management	SNMP(v1/v2c/v3),SNMP Trap
	basic ivialiagement	SNTP/NTP
		CPU protect
		Software/Hardware watchdog
		Firmware Upgrade/Backup
		Ping/Traceroute
		Bandwidth Control
		Flow Control
		EEE
		MTU
		CFM(802.1ag)
	Port Config	EFM OAM(802.3ah)
	roit comig	DDM
		Storm Control
		Port Isolation
		Port Security
		Virtual Cable Test
12 5 - 4		ULDP/Cisco UDLD
L2 Features	Discovery	LLDP(802.1ab)
		LLDP-MED
		Static
	(Link Aggregation)	LACP(802.3ad)
		Load Balance(src-mac/dst-mac/src-ip/dst-ip)
		Max groups and ports per group VLAN(802.1Q 4K)
		Access/Trunk/Hybrid
		Private VLAN
		VLAN Filter
		MAC-based VLAN
		Protocol-based VLAN
	VLAN	IP Subnet-based VLAN
		Voice VLAN
		GVRP/GMRP
		QinQ/Selective-QinQ/Flexible QinQ
		VLAN Translation/N:1 VLAN Translation
		Guest VLAN
		Loopback Detection
	Network Loop Detection	ERPS
		STP/RSTP/MSTP
	Spanning Tree	MSTP Support 64 instance
		BPDU Guard/Root Guard/BPDU Tunnel
	ARP	Static ARP
	AINE	Static AINF

		ARP Scanning Prevention
		ARP Spoofing Prevention
		ARP Guard
		Gratuitous ARP
		Dynamic ARP Inspection
		ARP Quantity Control
		Anti ICMP Attack
	ICMP	ICMP Rate Limit
	10.11.1	ICMP Unreachable Drop
		Static Route
	IP Forward	Route Aggregation
	Control Multicast	DCSCM
	Multicast VALN	Multicast VALN
IPv4 Related Function	IGMP	IGMP SNOOPING V1/V2/V3
		Fast Leave
		IGMP Proxy
		DHCP Server
		DHCP Client/BOOTP
	DHCP	DHCP Relay
		DHCP Snooping
		DHCP Option 82/43/60/61/67
		DHCPv6 Server
		DHCPv6 Relay
	DHCPv6	DHCPv6 Snooping
		IPv6 SAVI
		Security RA
	<b>IPv6 Unicast Routing</b>	Static Route
	IPv6 Multicast Routing	MLD v1/V2 Snooping
		SNMP over IPv6 Support
		HTTP over IPv6 Support
IPv6 Related Function		SSH over IPv6 Support
in to helated random		DNS over IPv6 Support
		IPv6 ping/traceroute Support
		IPv6 Telnet Support
	IPv6 Features	IPv6 Radius+ Support
		IPv6 Tacacs+ Support
		IPv6 SNTP/NTP Support
		IPv6 FTP/TFTP Support
		IPv6 IPSec Support
		IPv6 ACL
	Pasis	Trust COS/DSCP
	Basic	Trust Port
	Scheduling	SP
		WRR
		WDRR
	PolicyMap Stream	Based on VLAN
		Based on COS/DSCP
		Aggregate PolicyMap
QoS(Quality Of Service)		Ingress PolicyMap
	Policing	CAR Stream Shaping(leak algorithm)
		Ingress Policing
	Rewrite	COS/802.1p Priority
		IP Precedence
		IPv4 DSCP/IPv6 DSCP
	Rewrite	IF V4 D3CF/IF V0 D3CF
	Kewrite	drop-precedence

		Ingress/Egress Rewrite
		DSCP to DSCP mapping
		DSCP to DP mapping
	Queuing	DSCP to Queue mapping
	Zaoag	COS to DP mapping
		COS to Queue mapping
	IP-ACL	SIP/DIP
		IP Protocol
		IP Priority(DSCP,TOS, Precedence)
		TCP,UDP src,dst Port
		SRC/DST MAC
	MAC-ACL	VLAN
		COS
ACL		Tag/Untag
	IP-MAC ACL	MAC-ACL and IP-ACL
	User-defined ACL	Base on user defined profile
		Based on time period ACL
	ACL Features	ACL on VLAN
		Based on ACL Stream
		Port Based Authentication
	802.1x	Support EAPoR
	302.1X	MAC based Authentication
		Guest VLAN
	МАВ	Based on Port Authentication
		Based on MAC Authentication
	MAC Address Count	Based on Port
	Limit	Based on VLAN
	IP Address Count Limit	Based on Port
Security	ii Address Court Elline	Based on VLAN
Security	Access Management	Based on source mac and IP address
		TCP Flag
	Deny DoS Attack	TCP Flagment
		IP Segment
		ICMP
	TACACS+	Standard Support
	Radius	Standard Support
		Client, Support MD5
	SSL	Openssl 1.1.0
	MRPP	Compatiable ERRP
Redundancy Related	ULPP	Uplink Protection Protocol
Function		Smart Link/Monitor Link
	ULSM	Uplink State Monitor
		Support one to one, multi to one
Mirror	Mirror	Port based mirror, support ingress, egress, and both
		CPU based mirror
		Flow based mirror
		RSPAN
РоЕ	PoE Management	ON/OFF Config
		Alive Checking for PD
		7/24 On/Off Scheduling
		1/27 OII/OII JUICUUIIIIK

# **Ordering Information**

Model	20117620		
Product Information	8-Port*2.5G(PoE) +2*10G SFP+ Managed PoE Switch		
	AC power cord *1		
Packaging Accessories	<ul><li>Feet *4</li><li>Rack Mount Kit *2</li></ul>		
Tuckuging Accessories	• Screw *8		
	User Manual *1		