

Product Overview



PM136GTM V1 is a Layer 3 10G Uplink Managed Switch developed by UNIPOE, with 16*10/100/1000Mbps RJ45 ports, 8 *Combo ports and 4*1000M/2.5G/10Gbps SFP+ fiber module slots and 1*Console port. Support static routing function, provide complete security policy, perfect QoS

policy and rich VLAN function, easy to manage and maintain, meet the Networking and Access Requirements of Enterprise, Community, Hotel, Office Network and Campus Network.

Product Features

- Supports IEEE802.3x full-duplex flow control and Backpressure half-duplex flow control;
- Panel indicators monitor operating status and help with fault analysis;
- 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;
- IP dynamic routing protocols support RIP, OSPFv2, IPv4/IPv6 static routes;
- Dual power supply design, supporting AC or DC 1+1 backup, reducing the risk of equipment power failure and business interruption;
- 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 TFTP file upload and download management.



Product Specifications

Hardware Specifications

Model		PM136GTM V1(AC)	PM136GTM-DC V1	PM136GTM-AC+DC V1	
Interface		16*10M/100M/1000Mbps RJ45 Ports 8*1000Mbps Combo Ports 4*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			
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) 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), SYS(Green)			
MAC Address Table		16K, Auto-learning, Auto-updating			
Jumbo Frame		12KBytes			
Packet Buffer		12Mbit			
Transfer Mode		Store-and-forward			
Packet Forward Speed		95.23Mpps			
Switching Capacity		128Gbps			
Input Voltage	AC	Operating voltage: 100-24 Maximum voltage: 90V-24			
pur remage	DC	Maximum voltage range: 36~72V, 3A Max			
Total power supply	AC	12V/5A, 60W			
	DC	12V/6.25A, 75W			
Dimensions(L*W*H)		440*260*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			

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Software Specification

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	DHCP Server	DHCP Server
	21101 001101	DHCPv6 Server
	Route	Static Route(IPV4/IPV6)
L3 Features		Route Aggregation
	RIP	RIP v1/v2
	OSPF	OSPF v2
	BGP	BGP4
		MAC Aging Time
	MAC Address Table	MAC Filter
		MAC Notification
		Console/Telnet/SSH
	Basic Management	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)
	Port Config	DDM
		Storm Control
		Port Isolation
		Port Security
		Virtual Cable Test
L2 Features		
LZ reatures		ULDP/Cisco UDLD
	Discovery	LLDP(802.1ab)
	-	LLDP-MED Chatia
		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)
	VLAN	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
	Network Loop Detection	Loopback Detection
		ERPS
		STP/RSTP/MSTP
	Spanning Tree	MSTP Support 64 instance
		BPDU Guard/Root Guard/BPDU Tunnel
	ARP	Static ARP



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ARP Spoofing Prevention ARP Guard Gratuitous ARP Dynamic ARP Inspection ARP Quantity Control ARP Quantity Control Anti ICMP Attack ICMP Attack ICMP Bate Limit ICMP Unreachable Drop Control Multicast DCSCM Multicast VALN IGMP SNOOPING V1/V2/V3 Fast Leave IGMP Froxy DHCP Client/BOOTP DHCP Relay DHCP Relay DHCP Snooping DHCP Option 82/43/60/61/67 IPV6 Nooping DHCP Option 82/43/60/61/67 IPV6 Nooping DHCP Snooping IPV6 SAVI Security RA IPV6 Unicast Routing IPV6 Support IPV6 Support HTTP over IPV6 Support HTTP over IPV6 Support			Unipo
ARP Guard			ARP Scanning Prevention
Gratuitous ARP			ARP Spoofing Prevention
ICMP ICMP ARP Quantity Control			ARP Guard
ICMP Anti ICMP Attack ICMP Anti ICMP Attack ICMP Rate Limit ICMP Non-Open			Gratuitous ARP
ICMP ICMP ICMP Attack ICMP Rate Limit ICMP Unreachable Drop Control Multicast DCSCM Multicast VALN ICMP SNOOPING V1/V2/V3 IGMP Fast Leave ICMP Proxy DHCP Client/80OTP DHCP DHCP Relay DHCP Snooping DHCP Option 82/4360/61/67 IPV6 Basic IPV6 No Snooping DHCPV6 Ealay DHCPV6 SAVI Security RA IPV6 Unicast Routing IPV6 Multicast Routing IPV6 Multicast Routing IPV6 Multicast Routing IPV6 Multicast Routing IPV6 Features IPV6 Features IPV6 Relay DHCPV6 IPV6 Support IPV6 Support IPV6 Relay DSDOPING IPV6 Support IPV6 Relay DHCPV6 Support IPV6 Support IPV6 Support IPV6 Support IPV6 Support IPV6 Relay Deport IPV6 Relay Deport IPV6 Relay DHCPV6 Support IPV6 Support IPV6 Support IPV6 Support IPV6 Relay DHCPV6 Support IPV6 Relay Deport			Dynamic ARP Inspection
ICMP ICMP Rate Limit ICMP Unreachable Drop Control Multicast DCSCM Multicast VALN Multicast VALN IGMP Fast Leave IGMP SNOOPING V1/V2/V3 BMP Fast Leave IGMP Proxy DHCP Client/BOOTP DHCP BASIC IPV6 ND Snooping DHCP POption 82/436/61/67 IPV6 Basic IPV6 ND Snooping DHCPV6 Poption 82/436/61/67 IPV6 Mo Snooping DHCPV6 Snooping IPV6 SAVI Security RA IPV6 Unicast Routing Static Route IPV6 Multicast Routing Static Route IPV6 Multicast Routing MLD v1/V2 Snooping IPV6 Support SSH Over IPV6 Support SSH Over IPV6 Support IPV6 Support IPV6 Features IPV6 Support IPV6 Facass-Support IPV6 Facass-Support IPV6 Facass-Support IPV6 FTP/TFTP Support IPV6 FTP/TTP Sup			ARP Quantity Control
ICMP Unreachable Drop			Anti ICMP Attack
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IPv6 Unicast Routing Static Route		Direct vo	IPv6 SAVI
IPv6 Multicast Routing			Security RA
SNMP over IPv6 Support		IPv6 Unicast Routing	Static Route
IPv6 Related Function A		IPv6 Multicast Routing	MLD v1/V2 Snooping
IPv6 Related Function A			SNMP over IPv6 Support
IPv6 Related Function SSH over IPv6 Support			
IPv6 Features IPv6 ping/traceroute Support IPv6 Pelnet Support IPv6 Radius+ Support IPv6 SNTP/NTP Support IPv6 SNTP/NTP Support IPv6 FTP/TFTP Support IPv6 ACL Trust COS/DSCP Trust Port SP Scheduling WRR WDRR Based on VLAN Based on VLAN Based on VLAN Based on VLAN Based on COS/DSCP Aggregate PolicyMap Ingress PolicyMap CAR Stream Shaping(leak algorithm) Ingress Policing COS/802.1p Priority IPv6 Precedence IPv4 DSCP/IPv6 DSCP drop-precedence internal-priority Ingress Rewrite Ouesing Ouesing Ouesing COSCP to DSCP mapping	IPv6 Related Function		• • • • • • • • • • • • • • • • • • • •
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Total Description DSCP to DP mapping		Queuing	
		~~~~	DSCP to DP mapping



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		DSCP to Queue mapping	
		COS to DP mapping	
		COS to Queue mapping	
		SIP/DIP	
	IP-ACL	IP Protocol	
	IF-ACL	IP Priority(DSCP,TOS, Precedence)	
		TCP,UDP src,dst Port	
		SRC/DST MAC	
	MAC-ACL	VLAN	
ACL		COS	
		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	
		Support EAPoR	
	802.1x	MAC based Authentication	
		Guest VLAN	
		Based on Port Authentication	
	MAB	Based on MAC Authentication	
	MAC Address Count Limit	Based on Port	
		Based on VLAN	
	IP Address Count Limit	Based on Port	
Security		Based on VLAN	
Security	Access Management	Based on source mac and IP address	
	Deny DoS Attack	TCP Flag	
		TCP Flagment	
		IP Segment	
		ICMP	
	TACACS+	Standard Support	
	Dadi	Standard Support	
	Radius	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	Port based mirror, support ingress, egress, and both	
Flow Monitor Function		CPU based mirror	
		Flow based mirror	
		RSPAN	



## **Ordering Information**

Model	PM136GTM V1		
Product Information	16GE+8G Combo+4*10G SFP+ L3 Managed Switch		
Packaging Accessories	<ul> <li>AC power cord *1/2</li> <li>Feet *4</li> <li>Rack Mount Kit *2</li> <li>Screw *8</li> <li>User Manual *1</li> </ul>		

[★]AC+DC power supply version equipped with an AC power cable, dual AC power supply version equipped with two AC power cables, DC power supply does not come with a power cable by default

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