

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: 100-240V, 50/60Hz, 2A Max Maximum voltage: 90V-240V, 47~63Hz		
	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		

Software Specification

L3 Features	DHCP Server	DHCP Server DHCPv6 Server
	Route	Static Route(IPV4/IPV6) Route Aggregation
	RIP	RIP v1/v2
	OSPF	OSPF v2
	BGP	BGP4
L2 Features	MAC Address Table	MAC Aging Time
		MAC Filter
		MAC Notification
	Basic Management	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
	Port Config	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
	Discovery	LLDP(802.1ab)
		LLDP-MED
	Link Aggregation	Static
		LACP(802.3ad)
		Load Balance(src-mac/dst-mac/src-ip/dst-ip)
		Max groups and ports per group
	VLAN	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
	Network Loop Detection	Loopback Detection
		ERPS
	Spanning Tree	STP/RSTP/MSTP
		MSTP Support 64 instance
		BPDU Guard/Root Guard/BPDU Tunnel
	ARP	Static ARP

		ARP Scanning Prevention
		ARP Spoofing Prevention
IPv4 Related Function	ICMP	ARP Guard
		Gratuitous ARP
		Dynamic ARP Inspection
	Control Multicast	ARP Quantity Control
		Anti ICMP Attack
		ICMP Rate Limit
	Multicast VALN	ICMP Unreachable Drop
		DCSCM
		Multicast VALN
	IGMP	IGMP SNOOPING V1/V2/V3
		Fast Leave
		IGMP Proxy
	DHCP	DHCP Client/BOOTP
		DHCP Relay
		DHCP Snooping
		DHCP Option 82/43/60/61/67
IPv6 Related Function	IPv6 Basic	IPv6 ND Snooping
		DHCPv6 Relay
	DHCPv6	DHCPv6 Snooping
		IPv6 SAVI
		Security RA
		Static Route
	IPv6 Unicast Routing	MLD v1/V2 Snooping
	IPv6 Multicast Routing	SNMP over IPv6 Support
	IPv6 Features	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
QoS(Quality Of Service)	Basic	Trust COS/DSCP
		Trust Port
	Scheduling	SP
		WRR
		WDRR
	PolicyMap Stream	Based on VLAN
		Based on COS/DSCP
		Aggregate PolicyMap
		Ingress PolicyMap
	Policing	CAR Stream Shaping(leak algorithm)
		Ingress Policing
	Rewrite	COS/802.1p Priority
		IP Precedence
		IPv4 DSCP/IPv6 DSCP
		drop-precedence
		internal-priority
		Ingress/Egress Rewrite
	Queuing	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
		Based on VLAN
		Based on source mac and IP address
	Deny DoS Attack	TCP Flag
		TCP Fragment
		IP Segment
		ICMP
	TACACS+	Standard Support
	Radius	Standard Support
		Client, Support MD5
	SSL	Openssl 1.1.0
Redundancy Related Function	MRPP	Compatiable ERRP
	ULPP	Uplink Protection Protocol
		Smart Link/Monitor Link
Flow Monitor Function	Mirror	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

Model	PM136GTM V1
Product Information	16GE+8G Combo+4*10G SFP+ L3 Managed Switch
Packaging Accessories	<ul style="list-style-type: none"> ● AC power cord *1/2 ● Feet *4 ● Rack Mount Kit *2 ● Screw *8 ● User Manual *1

★ 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