



Product Overview

PM152GM V1 is a full Gigabit Layer 2 Managed Switch developed by UNIPOE, with 48*10/100/1000Mbps RJ45 ports, 4*1000Mbps SFP fiber module expansion slots and 1*Console port. It supports static routing function, provides complete security policy, perfect QoS policy and rich VLAN function, easy to manage and maintain,

and meets the networking and access requirements of enterprise, community, hotel, office network and campus network..

Product Features

- Complies with IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x standards.
- RJ45 Supports automatic port flip (Auto MDI/MDIX);
- Supports IEEE802.3x full-duplex flow control and Backpressure half-duplex flow control;
- Panel indicators monitor working status and assist in fault analysis;
- Perfect Security Mechanism;
- Highly reliable design, supporting traditional STP/MSTP/RSTP Layer 2 link protection technology;
- 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;
- Supports WEB management, which is simple and efficient, and facilitates installation and debugging by engineering and maintenance personnel;
- Supports file upload and download management through TFTP.

Product Specifications

Hardware Specification

Model	PM152GM V1
Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.1X, IEEE 802.1q, IEEE 802.1p, IEEE 802.1d, IEEE 802.1w, IEEE 802.3ad
Interface	48*10/100/1000Mbps RJ45 Ports 4* 1000Mbps SFP Slots 1*Console Port
Indicator	PWR, LNK/ACT, SYS
Network media	10BASE-T: UTP category 3,4,5 cable (≤100m) 100BASE-TX: UTP category 5, 5e cable (≤100m) 1000BASE-T: UTP category 5e, 5 cable (≤100m) 100BASE-FX: MMF,SMF 1000BASE-X: MMF, SMF
MAC Address Table	16K, Auto-learning, Auto-aging
Jumbo frame	12KBytes
Packet Buffer	12Mbit
Transfer Mode	Store-and-forward
Packet Forward Speed	77.38Mpps
Switching Capacity	104Gbps
Dimensions(L*W*H)	440*260*44mm
Power supply	60W
Input Power Supply	100~240V AC, 50/60Hz
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	Common mode ±2KV, Differential mode ±1KV;
Certification	CE,FCC Class A
MTBF	>50000 hour
Electrostatic standard	Contact ±6KV, Air ±8KV

Software Specification

L2 Features	MAC Address Table	MAC Address Size
		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
		ARP Guard
		Gratuitous ARP
		Dynamic ARP Inspection

		ARP Quantity Control
IPv4 Related Function	ICMP	Anti ICMP Attack
		ICMP Rate Limit
		ICMP Unreachable Drop
	IP Forward	Static Route
		Route Aggregation
	Control Multicast	DCSCM
	Multicast VALN	Multicast VALN
	IGMP	IGMP SNOOPING V1/V2/V3
		Fast Leave
		IGMP Proxy
	DHCP	DHCP Server
DHCP Client/BOOTP		
DHCP Relay		
DHCP Snooping		
DHCP Option 82/43/60/61/67		
IPv6 Related Function	IPv6 Basic	IPv6 ND Snooping
	DHCPv6	DHCPv6 Server
		DHCPv6 Relay
		DHCPv6 Snooping
		IPv6 SAVI
		Security RA
	IPv6 Unicast Routing	Static Route
	IPv6 Multicast Routing	MLD v1/V2 Snooping
	IPv6 Features	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		
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		

ACL		COS to DP mapping
		COS to Queue mapping
		SIP/DIP
		IP Protocol
		IP Priority(DSCP,TOS, Precedence)
		TCP,UDP src,dst Port
		SRC/DST MAC
		VLAN
		COS
		Tag/Untag
		IP-MAC ACL
		MAC-ACL and IP-ACL
		User-defined ACL
		Base on user defined profile
		ACL Features
Security		Based on time period ACL
		ACL on VLAN
		Based on ACL Stream
		802.1x
		Port Based Authentication
		Support EAPoR
		MAC based Authentication
		Guest VLAN
		MAB
		Based on Port Authentication
		Based on MAC Authentication
		MAC Address Count Limit
		Based on Port
		Based on VLAN
		IP Address Count Limit
Redundancy Related Function		Based on Port
		Based on VLAN
		Access Management
		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
Flow Monitor Function		Openssl 1.1.0
		MRPP
		Compatible ERRP
		ULPP
		Uplink Protection Protocol
		Smart Link/Monitor Link
		ULSM
		Uplink State Monitor
		Mirror
		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	Product information
PM152GM V1	48GE+4G SFP Managed Switch