



Product Overview

PM112GSMI V1 is a Management ring-network industrial Switch independently developed by UNIPOE, with 8*10/100/1000Mbps adaptive RJ45 ports and 4 independent Gigabit SFP fiber module expansion slots. Support static routing functions, provide perfect security, QoS, and plenty of VLAN function has ring network function, can form a ring network, switch between by hand in hand form a ring network topology, the redundancy, high reliability characteristics can make in a ring online link disconnected all the way, will not affect the forwarding of data on the network.

The device adopts storage and forwarding, no fan, low power consumption

design, has the advantages of easy to use, compact and beautiful, simple installation. The product is designed to meet Ethernet standards, with lightning protection, static protection mechanism, operating temperature range of -40°C to 75°C, stable performance, safety and reliability, can be widely used in intelligent transportation, telecommunications, security, financial securities, customs and other broadband data transmission fields.

Product Features

- Supports IEEE802.3u, IEEE802.3ab, IEEE802.3z, and 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;
- High energy aluminum alloy roof heat conduction groove design;
- Supports one-click ring network and one-click storm suppression, featuring redundancy and high reliability;
- High reliability design, supporting traditional STP/RSTP layer 2 link protection technology;
- Supports manual aggregation and dynamic aggregation, which increases link bandwidth, improves link reliability,
 and implements load balancing and 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	PM112GSMI 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	8*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) 1000BASE-X: MMF, SMF	
MAC Address Table	8K, Auto-learning, Auto-aging	
Jumbo Frame	9216Byte	
Packet Buffer	4.1M bit	
Transfer Mode	Store-and-forward	
Packet Forward Speed	17.85Mpps	
Switching Capacity	24Gbps	
Dimensions(L*W*H)	145*109*62mm	
Fan Quantity	Fanless	
Green Energy Saving	IEEE 802.3az	
Input Power Supply	DC:12-55V	
Operating Temperature	-40°C ~ 75°C	
Storage Temperature	-40°C ~ 80°C	
Operating Humidity	10% ~ 90% non-condensing	
Storage Humidity	5% ~ 90% non-condensing	
Surge Protection	Differential mode ±4KV Common mode ±6KV	
MTBF	>100000 hour	
Electrostatic Standard	Contact ±6KV, Air ±8KV	

Software Specification

	1	1446 A L L C'
		MAC Address Size
	MAC Address Table	MAC Aging Time
		MAC Next Street
		MAC Notification
		Console/Telnet/SSH
		Http/Https, SSL/TLS
		FTP/TFTP
		Syslog
	Basic Management	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)
	Port Config	EFM OAM(802.3ah)
		DDM
		Storm Control
		Port Isolation
		Port Security
		Virtual Cable Test
		ULDP/Cisco UDLD
	Discovery	LLDP(802.1ab)
L2 Features	,	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
	VLAN	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
Network Loo		Guest VLAN
	Network Loop Detection	Loopback Detection
		ERPS STD/DSTD/MSTD
	Spanning Tree ARP	STP/RSTP/MSTP MSTP Support 64 instance
		MSTP Support 64 instance BPDU Guard/Root Guard/BPDU Tunnel
		Static ARP
		ARP Specified Provention
		ARP Spoofing Prevention ARP Guard
		Gratuitous ARP
		Dynamic ARP Inspection

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		ARP Quantity Control
IPv4 Related Function		Anti ICMP Attack
	ICMP	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 Server
	DHCP	DHCP Client/BOOTP
		DHCP Relay
		DHCP Snooping
		DHCP Option 82/43/60/61/67
		DHCPv6 Server
		DHCPv6 Relay
	DHCPv6	DHCPv6 Snooping
		IPv6 SAVI
		Security RA
	IPv6 Unicast Routing	Static Route
	IPv6 Multicast Routing	MLD v1/V2 Snooping
	_	SNMP over IPv6 Support
IPv6 Related Function		HTTP over IPv6 Support
	IPv6 Features	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
	Basic	Trust COS/DSCP
	Dasic	Trust Port
	Scheduling	SP
		WRR
		WDRR
	Policy Map Stream	Based on VLAN
		Based on COS/DSCP
		Aggregate Policy Map
0-5(0110(51)		Ingress Policy Map
QoS(Quality Of Service)	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
		DSCP to DSCP mapping
	Queuing	DSCP to DSCP mapping DSCP to DP mapping
		DSCP to Queue mapping
1		COS to DP mapping
		cos to bi mapping



		COS to Queue mapping	
		SIP/DIP	
ACL		IP Protocol	
	IP-ACL	IP Priority(DSCP, TOS, Precedence)	
		TCP, UDP src, dst Port	
		SRC/DST MAC	
	MAC-ACL	VLAN	
		COS	
		Tag/Untag	
	IP-MAC ACL	MAC-ACL and IP-ACL	
	User-defined ACL		
	ACL Features	Based on user defined profile Based on time period ACL	
		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	Based on Port	
	Limit	Based on VLAN	
	Lillit	Based on Port	
Security	IP Address Count Limit	Based on VLAN	
Security	Access Management	Based on source mac and IP address	
	Access Wanagement		
		TCP Flag TCP Flagment	
	Deny DoS Attack	IP Segment	
		ICMP	
	TACACC		
	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	
	ULSM	Uplink State Monitor	
Mirror	Mirror	Support one to one, multi to one	
		Port based mirror, support ingress, egress, and both	
		CPU based mirror	
		Flow based mirror	
		RSPAN	

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Ordering information

Model	product information
PM112GSMI V1	8-Port Gigabit +4G SFP Industrial Fast Ring Managed Switch