



Product Overview

PM106GSMI V1 is an industrial Management Switch independently developed by UNIPOE. It has 4*10/100/1000Mbps RJ45 ports and 2 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, and 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	PM106GSMI 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	4*10/100/1000Mbps RJ45 Ports 2*1000Mbps SFP Slots		
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	8.92Mpps		
Switching Capacity	12Gbps		
Dimensions(L*W*H)	110*90*46mm		
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 \pm 2KV Common mode \pm 6KV		
MTBF	>100000 hour		
Electrostatic Standard	Contact ±6KV, Air ±8KV		

Software Specification

		MAC Address Cite
		MAC Aging Time
	MAC Address Table Basic Management	MAC Filter
		MAC Notification
		MAC Notification
		Console/Telnet/SSH
		Http/Https、SSL/TLS
		FTP/TFTP
		Syslog SNIAD (14/12-4/2) SNIAD Trans
		SNMP(v1/v2c/v3)、SNMP Trap
		SNTP/NTP
		CPU protect
		Software/Hardware watchdog
		Firmware Upgrade/Backup
		Ping/Traceroute Bandwidth Control
		Flow Control
		EEE
		MTU (503.10c)
		CFM (802.1ag)
	Port Config	EFM OAM (802.3ah)
		DDM Storm Control
		Storm Control
		Port Isolation
		Port Security
		Virtual Cable Test
		ULDP/Cisco UDLD
12 Factures	Discovery	LLDP (802.1ab)
L2 Features	(Link Aggregation)	LLDP-MED Static
		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
		Guest VLAN
		Loopback Detection
	Network Loop 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
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Web: www.unipoe.com
Mail: unipoe@unipoe.com
Tel: 0769-8600 1588
Fax: 0769-8600 1800

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		Uni
		ARP Quantity Control
		Anti ICMP Attack
	ICMP	ICMP Rate Limit
		ICMP Unreachable Drop
	IP Forward	Static Route
		Route Aggregation
	Control Multicast	DCSCM
IPv4 Related Function	Multicast VLAN	Multicast VLAN
	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
		DHCPv6 Server
		DHCPv6 Relay
	DHCPv6	DHCPv6 Snooping
	2116.10	IPv6 SAVI
		Security RA
	IPv6 Unicast Routing	Static Route
	IPv6 Multicast Routing	
	IPVO IVIUILICASE ROULING	MLD v1/V2 Snooping
ID. C.D. Late of Front of the		SNMP over IPv6 Support
IPv6 Related Function		HTTP over IPv6 Support
		SSH over IPv6 Support
		DNS over IPv6 Support
	IPv6 Features	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
		Trust Port
	Scheduling	SP
		WRR
		WDRR
	PolicyMap Stream	Based on VLAN
		Based on COS/DSCP
		Aggregate PolicyMap
0.6/0.111.066.1.1		Ingress PolicyMap
QoS(Quality Of Service)	Policing	CAR Stream Shaping (leak algorithm)
	<u> </u>	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



1		COS to Queue mapping
		SIP/DIP
		IP Protocol
	IP-ACL	IP Priority (DSCP,TOS, Precedence)
		TCP, UDP src, dst Port
		SRC/DST MAC
ACL		VLAN
ACL	MAC-ACL	COS
		Tag/Untag
	IP-MAC ACL	MAC-ACL and IP-ACL
	User-defined ACL	Based 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
		MAC based Authentication
		Guest VLAN
	MAB	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 Count Linit	Based on VLAN
	Access Management	Based on source mac and IP address
	Deny DoS Attack	TCP Flag
		TCP Flagment
		IP Segment
		ICMP
	TACACS+	Standard Support
	Radius	Standard Support
		Client, Support MD5
	SSL	Openssl 1.1.0
	MRPP	Compatiable ERRP
Redundancy Related Function	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	
PM106GSMI V1	4-Port Gigabit +2G SFP Industrial Fast Ring Managed Switch	