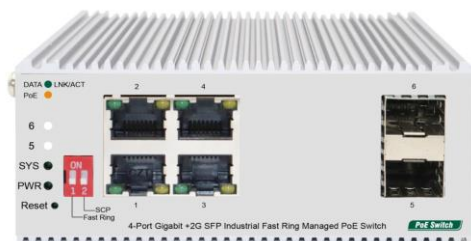


## Product Overview



PM3006GSMI V2 is a Managed Ring-network Industrial PoE Switch independently developed by UNIPOE. It provides 4\*10/100/1000Mbps adaptive RJ45 ports and 2\*1000Mbps SFP fiber module expansion slots. The four RJ45 ports support PoE power supply, each with a maximum of 30W. 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 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);
- PoE supports IEEE 802.3af/at standards and provides a maximum output of 30W for each port;
- 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/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

<b>Model</b>	PM3006GSMI V2
<b>Standard</b>	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, IEEE802.3af, IEEE802.3at
<b>Interface</b>	4*10/100/1000Mbps RJ45 Ports 2*1000Mbps SFP Slots 1 Console Port
<b>Indicator</b>	PWR, LNK/ACT, PoE, SYS
<b>Network Media</b>	10BASE-T: UTP category 3, 4, 5 cable( $\leq 100m$ ) 100BASE-TX: UTP category 5, 5e cable( $\leq 100m$ ) 1000BASE-T: UTP category 5e, 5 cable( $\leq 100m$ ) 1000BASE-X: MMF, SMF
<b>MAC Address Table</b>	8K, Auto-learning, Auto-aging
<b>Jumbo Frame</b>	9216Byte
<b>Packet Buffer</b>	4.1Mbit
<b>Transfer Mode</b>	Store-and-forward
<b>Packet Forward Speed</b>	8.93Mpps
<b>Switching Capacity</b>	12Gbps
<b>Dimensions(L*W*H)</b>	110*90*46mm
<b>Fan Quantity</b>	Fanless
<b>PoE Power Budget</b>	60W
<b>PoE Port</b>	Port1~4
<b>PoE Power On RJ45</b>	Mode A 1/2(-), 3/6(+)
<b>PoE Power Output</b>	30W(MAX)
<b>Green Energy Saving</b>	IEEE 802.3az
<b>Input Power Supply</b>	DC: 48-57V
<b>Operating Temperature</b>	-40°C ~ 75 °C
<b>Storage Temperature</b>	-40 °C ~ 80 °C
<b>Operating Humidity</b>	5% ~ 95% non-condensing
<b>Storage Humidity</b>	0% ~ 95% non-condensing
<b>Surge Protection</b>	Differential mode $\pm 2KV$ Common mode $\pm 6KV$
<b>MTBF</b>	>100000 hour
<b>Electrostatic Standard</b>	Contact $\pm 6KV$ , Air $\pm 8KV$



## 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

IPv4 Related Function	ICMP	ARP Quantity Control
		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	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
		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	Based 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
	Deny DoS Attack	Based on VLAN
		Based on Port
		Based on source mac and IP address
		TCP Flag
	TACACS+	TCP Flagment
		IP Segment
	Radius	ICMP
		Standard Support
Redundancy Related Function	MRPP	Standard Support
		Client, Support MD5
	SSL	Openssl 1.1.0
Mirror	Mirror	Compatible ERRP
		Uplink Protection Protocol
		Smart Link/Monitor Link
		Uplink State Monitor
		Support one to one, multi to one
PoE	PoE Management	Port based mirror, support ingress, egress, and both
		CPU based mirror
		Flow based mirror
		RSPAN
		ON/OFF Config
		Alive Checking for PD
		7/24 On/Off Scheduling

## Ordering Information

Model	Product Information
PM3006GSMI V2	4-Port Gigabit+2G SFP Industrial Fast Ring Managed PoE Switch