

### L3 Managed PoE Gigabit Industrial Ethernet Switch, Model IPSMGR 4024-4S Hi



the Ethernet. It also provides the PoE function for powering of wireless LAN (WLAN) access points, IP security cameras, VoIP telephone and other low port density installations.

IPSMGR 4024-4S Hi is a Rack device with a chassis of 1U height. It provides 24 10 / 100 / 1000 Base-TX ports + 4 Gigabit SFP ports. It provides 8 / 16 / 24 PoE Injector.

#### Features

- ✓ IEEE802.3, IEEE 802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3af IEEE802.3at
- ✓ Provides 24 10 / 100 / 1000 Base-TX ports + 4 Gigabit SFP ports
- ✓ Provides 8 / 16 / 24 PoE injector
- ✓ Build-in Power supplies, optional 150W / 270W / 330W / 450W
- ✓ High back-plane bandwidth 56Gbps
- ✓ Support MLD Snooping
- ✓ Support standard IP / Extend IP / MAC IP / ARP ACL
- ✓ Support IGMP snooping for Multi-media application
- ✓ Support Port Mirror and bandwidth control
- ✓ Support IEEE802.3x Flow control
- ✓ Support Port Based VLAN / 802.1Q Tag VLAN
- ✓ Support IEEE802.3ad Port Trunk with LACP
- ✓ Support Spanning Tree Protocol IEEE802.1d / 802.1w / 802.1s
- ✓ Support IEEE 802.1p Class of service
- ✓ Support IEEE 802.1x User authentication
- ✓ Support Broadcast storm filter
- ✓ Support System event log
- ✓ Support Command line interface management
- ✓ Management by Web / SNMP / SSH / Telnet / Console
- ✓ Support IPV6

#### Specifications:

Attributes	
Networking Interfaces	24 x 10 / 100 / 1000 Mbps RJ45 Ethernet Ports
	4 x 1Gbps SFP Ethernet Ports
Management Interface	Console
LED Indicators	Power, Link / Act, PoE
Performance	
Switching Capacity	56 Gbps
Forwarding Capacity	41.7 Mpps
Forwarding Mode	Store and Forward

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Packet Buffer Memory	12 Mbit
RAM for CPU	2G Mbit
Flash Memory	512 Mbit
MAC Address Table	16K
Max. Jumbo Frame size	16K
VLAN Quantity	4K
ACL Table	512
L3 Interface	32
Port Queues	8
PoE Budget	130W / 250W / 310W / 430W
<b>Physical</b>	
Dimensions	440 x 200 x 44 mm
Weight	<6Kg
Operating Temperature	-10 to 70°C
Storage Temperature	-40 to 75°C
Operating Humidity	5 to 95% Non condensing
Power Method	100-240 VAC, 50 / 60Hz
Max. Power Consumption	PoE Budget : 150W / 270W / 330W / 450W Switch Power Consumption : 20W
<b>Power over Ethernet</b>	
PoE Interfaces	Ports 1-24
PoE Standard	IEEE802.3af, IEEE802.3at
Max. PoE Wattage per Port	30W
PoE Voltage	52VDC
PoE Pin Assignment	V- (RJ45 Pin1,2), V+ (RJ45 Pin 3, 6)
PoE Management	Port-base PoE Status View and Control
<b>Port Configuration</b>	
Enable and Disable	Support control enable and disable
Auto-Negotiation	Support force port mode and speed
Flow Control	Support IEEE802.3x Full-duplex Support Half-duplex Back pressure
Storm Control	Support Broadcast, Multicast and DLF package rate limit
Port Mirroring	Support many to one mirroring
Rate Limit	Support Port input and output rate limit
Link Aggregation	Support Manual Link Aggregation Support LACP
	Up to 8 maximum aggregation groups, each containing up to 8 ports
Aggregation Strategy	Source MAC / Destination MAC / Source Destination MAC Source IP / Destination IP / Source Destination IP
Port Protection	Each port can be configured into Isolated protected port from each other

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<b>MAC Configuration</b>	
MAC Address Table Management	Support
Transfer Mode	Support IVL transfer mode
Static MAC Address	Support
MAC Binding	Support
MAC Address Filter	Support
MAC Quantity Limitation	Supports limiting the number of MAC-addresses learning per port
<b>VLAN Configuration</b>	
VLAN Based on 802.1Q	Support
MAC-Based VLAN	Support
IP-Based VLAN	Support
Protocol-Based VLAN	Support
Guest VLAN	Support
Private VLAN	Support
<b>Reliability Protocol</b>	
Spanning Tree	Support STP / RSTP / MSTP
BPDU Guard	Support
BPDU Filter	Support
Port Loop Detection	Support
EAPS Protocol	Support RFC3619
LLDP Protocol	Support LLDP and LLDP-MED
UDLD Protocol	Totally compatible with UDLD protocol of CISCO
<b>Host Routing</b>	
Static ARP	Support
Static Routing	Support
<b>Multicast</b>	
Static Multicast MAC Address	Support
IGMP Snooping	Support
MVR	Support
GMRP	Support
<b>Access Control List (ACL)</b>	
Based on Standard IP	Support
Based on Extend IP	Support
Based on MAC IP	Support
Based on MAC ARP	Support
Based on time	Support
Port Filtering	Support

<b>Quality of Service (QoS)</b>	
Scheduling Mode	Support WRR, SP, WFQ
Sorting Based on Port	Support
Sorting Based on 802.1p	Support
Sorting Based on DSCP(Diff Serv)	Support
<b>Security</b>	
Administrative Security	Support Start and End TELNET, WEB and SNMP serve
	Support TELNET, WEB and SNMP serve binding with Standard IP ACL
	Support control the number of user for TELNET
CPU Protect	Switch self-security protect, forbid flow attack
IP-MAC Address Binding	Support binding between Static configuration IP, MAC and Port
AAA	Support 802.1x protocol
	Support RADIUS protocol
	Support RADIUS server authentication authorization and bill
	Support MAC-based 802.1X authentication.
	Support 802.1x guest VLAN
DHCP Snooping	Support Dynamic ARP binding to prevent ARP spoofing
	Support Dynamic IP,MAC port binding
	Support stationary port connect to DHCP server, to prevent privately connect to DHCP sever
Prevent ARP Spoofing	Support manual configure ACL rule based on MAC ARP prevent ARP spoofing
	Support DHCP Snooping function, switch dynamically binding ARP and port, when the DHCP get IP address , to prevent ARP spoofing
<b>Management Feature</b>	
CLI Management	Support Serial port management
	Support TELNET management
	Support SSH management
WEB Management	Support
SNMP Management	Support SNMP protocol
	Support SNMP Trap
	Support Standard and Private MIB
User management	Support multi-user management
Show CPU Utilization	Support
Show RAM Utilization	Support
Log Management	Support
Configuration Download / Upload	Support
Upgrade Firmware	Support
Timer Management	Support local timer management
	Support SNTP protocol get clock

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<b>Debugging Tools</b>	
PING	Support
TRACEROUTE	Support
TELNET Client	Support

#### **Ordering Information : IPSMGR 4024-4S A Hi**

IPSMGR : Base Model for 19" Rack-mount L3 Managed PoE Switch  
4024 : 24 \* Giga PoE ports  
4S : 4 \* Giga SFP Ports  
A : A : 100 to 240VAC Power Input  
Hi : Fixed

**Note : SFP to be ordered separately**