

Industrial Managed PoE Switch

SIL 73424MP



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28 Port Industrial PoE Rack Managed Network Switch
24 x RJ45 + 4 x SFP

OVERVIEW

The SIL 73424MP is a state-of-the-art Industrial Managed Ethernet Switch developed by SilverNet to industry-leading technical standards for industrial Ethernet networks.

Providing stable and reliable Ethernet transmission, this Switch is encased in DIN rail or wall-mountable aluminium housing. Its 24 Ethernet ports and additional 4 Gigabit SFPs effectively facilitate data uplink and backbone connectivity.

This Switch is capable of providing power to PD terminal equipment such as wireless APs, webcams, VoIP, and visual intelligent building intercoms through network cables. It meets the infrastructure requirements of high-density PoE/PoE+/PoE++ supply, and is a valuable addition to any industrial Ethernet network.

Equipped with high-performance technology it operates using open network standards. It is suitable for use in both low and high-temperature environments, and offers excellent protection against electromagnetic interference, salt fog, vibration, and shaking.

This Switch is specifically designed for challenging environments, e.g. industrial networking and intelligent transportation systems (ITS), and feature standard IP40 protection. Even where environmental conditions exceed commercial product specifications, like in military and utility sectors, this Switch can be relied upon for long-lasting high-performance.

Features

- 24 x 10/100/1000M Base-TX RJ45 Ports
- 4 x Gigabit SFP Ports
- Auto Negotiation
- Full/Half Duplex
- Auto MDI/MDI-X Connection
- 4Mbits Packet Buffer Size
- 8K MAC Address Table
- 10K Jumbo Packets
- IEEE 802.3af/at PoE+
- Advanced PoE Functions: Output Setting, Smart PoE, PoE Scheduling and Budget Management
- Web GUI / CLI / NMS Management
- Redundant Network with STP/RSTP/ERPSv2
- RADIUS, IEEE 802.1X, SNMPv3, HTTPs, SSH

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Technical Specifications

Part No.	SIL 73424MP
Ethernet Interface	
Ports	24 x 10/100/1000M Base-TX 4 x Gigabit SFP
Port Mode (Tx)	Auto Negotiation Full/Half Duplex Mode Auto MDI/MDI-X Connection
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseSX/LX/LHX/ZX IEEE 802.3x for flow control IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1p for Class of Service IEEE 802.1Q for VLAN Tagging IEEE 802.1X for authentication IEEE 802.3ad for Port Trunk with LACP
Packet Buffer Size	4Mbits
Maximum Packet Length	Up to 10K
MAC Address Table	8K
Transmission Mode	Store and Forward (full/half duplex mode)
Exchange Property	Delay time: < 7μs Backplane bandwidth: 56Gbps
IGMP Group	4096
Max. No. of VLAN	256
VLAN ID Range	VID 1 to 4094
Physical Characteristics	
Housing	Aluminium case
IP Rating	IP40
Dimensions	155mm x 128mm x 88mm
Installation	DIN / Wall Mount
Weight	1350g
Environmental	
Operating Temperature	-40°C ~ 75°C
Operating Humidity	5%~90% (non-condensing)
Storage Temperature	-40°C ~ 85°C
MTBF	907,476 hours @ Telcordia SR-332 Standard
Heat Dissipation	65 BTU/h (non-PoE Mode)
Cooling	Passive Cooling, Fanless Design
Noise Level	0 dBA
Power Characteristics	
PoE Ports	Port 1-24
Power Supply Pin	Default: 1/2(+), 3/6(-)
Max Power Per Port	IEEE802.3 af/at 30W
Total PWR / Input Voltage	480W(DC48-56V)
Power Consumption	24 Watts Max (without PoE load)
Power Inputs	2
Input Voltage	9-56VDC,Redundant dual inputs
Operating Voltage	Non-PoE Mode: 9-56VDC 30W PoE Mode: 48-56VDC
Connector	1 removable 6-contact terminal blocks Pin 1/2 for Power 1, Pin 3/4 for Power 2, Pin 5/6 for fault alarm
Protection	Overload Current Protection, Reverse Polarity Protection

Additional Features

Part No.	SIL 734C24MP
Ethernet Software Features	
Redundancy Protocols	Support STP/RSTP/MSTP/ERPSv2, Link Aggregation
Multicast Support	Support IGMP Snooping V1/V2/V3, support GMRP, GVMP,802.1Q
VLAN	Support IEEE 802.1Q 4K VLAN, Support QINQ, Double VLAN
Time Management	SNTP
QOS	Flow-based redirection Flow-based rate limiting Flow-based packet filtering 8*Output queues of each port 802.1p/DSCP priority mapping Diff-Serv QoS, Priority Mark/Remark Queue Scheduling Algorithm (SP, WRR, SP+WRR)
ACL	Port-based Issuing ACL ACL based on port and VLAN L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN
PoE Management	Total power limit of PoE power supply PoE output power allocation PoE output priority configuration PoE working status Scheduling of PoE operation
Diagnostic Maintenance	Support port mirroring, Syslog, Ping
Management Function	Support CLI、WEB、SNMPv1/v2/v3, Telnet server for management, EEE, LLDP, DHCP Server/Client(IPv4/IPv6), Cloud/MQTT
Alarm Management	Support 1 way relay alarm output, RMON, TRAP
Security	Broadcast Storm Protection, HTTPS/SSLv3, AAA & RADIUS, SSH2.0 Support DHCP Snooping, Option 82, 802.1X security access, Support user hierarchical management, ACL access control list, Support DDOS, port-based MAC filtering / binding, MAC black holes, IP source protection, Port isolation, ARP message speed limit
Advanced Layer 2 Functions	IPv4/IPv6 Management Static Route
Regulatory & Warranty	
Safety	IEC/EN 62368-1
EMI	EN55032 Class A, CISPR 32 FCC Part 15B Class A
EMS	EN61000-4-2 (ESD) EN61000-4-3 (RS) EN61000-4-4 (EFT) EN61000-4-5 (Surge) EN61000-4-6 (CS) EN61000-4-8 (PFMF)
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Environmental	RoHS
Warranty	5 Years
Package Contents	
Device	1x Industrial Ethernet Switch
Cable	1xDB9 female to RJ45 10-pin
Installation Kit	2x Rack-Mount Kits
Documentation	1 x Quick Start guide 1 x Warranty card

Dimension Diagrams

