SILVERNET
WIRELESS - NETWORK - SOLUTIONS

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Industrial Managed PoE Rack Switch

SIL 734C24MP

SIL 734C24MP
24 Port Industrial PoE Rack Managed Network Switch
24 x RJ45 + 4 x Combo

24 Port RJ45, 4 Combo Port
Industrial Managed PoE Rack Switch

OVERVIEW

The SIL 734C24MP is a top-tier Industrial Managed Ethernet Switch for industrial Ethernet networks. Developed and built to industry-leading technical standards, it ensures stable and reliable Ethernet transmission with superior quality you can depend on.

Housed in rack-mountable, strong aluminium casing, this Switch boasts a total of 24 Ethernet ports. On top of that, it also has 4 additional Gigabit SFP ports for data uplink and backbone connectivity.

Perfectly equipped to meet infrastructure requirements of a high-density PoE/PoE+ supply it is able to supply power to PD terminal equipment, like wireless APs, webcams, VoIP devices, and visual intelligent building intercoms through network cable.

The advanced technology and open network standards employed by this Switch allow it to function efficiently in all sorts of demanding environments. It can withstand extreme temperature ranges, resist electromagnetic interference, salt fog, vibrations, 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 Combo (SFP/RJ45) 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 734C24MP
Ethernet Interface	
Ports	24 x 10/100/1000M Base-TX 4 x Gigabit Combo (SFP/RJ45)
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	400mmx300mmx45mm
Installation	Rack Mount
Weight	2600g
Environmental	
Operating Temperature	-40℃ ~ 75℃
Operating Humidity	5%~90% (non-condensing)
Storage Temperature	-40℃ ~ 85℃
MTBF	＞250,000@Telcordia(Bellcore)GB
Heat Dissipation	75 BTU/h (Non-PoE) | 1086 BTU/h (300W PoE) | 2518 BTU/h (720W PoE)
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	80W(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	Ver.1.0
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

Top View

Front View

Rack Mount Kit

Height of projections
(Side View)

	NAME	DATE	Product Model		
			SIL 734C24MP	**SILVERNET**	
DRAWN	SN016	Nov 21 21			
MATERIAL	Aluminum				
IP RATING	IP40		REV:1.0	UNIT:mm	SHEET 1 OF 1
FINISH		DO NOT SCALE DRAWING	Ref:		SN16D02111012

Ver.1.0