- ➢ 8*10/100/1000M + 2*100/1000M SFP fiber Port Industrial PoE Switch,1-8 ports support IEEE 802.3af/at;
- ➢ PoE port support AF/AT intelligent recognition. Standard power is 15.4W/port, Maximum power: 30W/port;
- ➢ Only support 1,2(+)/3,6(-);
- ➢ Support L2+ full network management, PoE network management and configuration;
- ➢ Switching capacity:192Gbps, MAC table:8K;
- ➢ **Input voltage: DC12-40V, Redundant dual power 5-bit industrial terminals; Output Voltage: 48V;**
- ➢ IP protection level: IP40; Rail-type installation;
- ➢ 5 years warranty.

RoHS FC CE

Introduction

The MTL-POE3810M-8P is a full Gigabit managed industrial PoE switch. it has 8*10/100/1000M PoE ports and 2*100/1000 SFP fiber slot ports, port 1-8 can support IEEE 802.3af/at standard POE power supply, single port POE power up to 30W, and the maximum POE output power is 120W (at-240W). As a POE power supply device, it can automatically detect and identify the electrical equipment that meets the standard and supply power through the cable. It can supply the POE terminal equipment, such as wireless AP, network camera, network telephone, industrial sensor and so on, to meet the demand for high density PoE power supply network environment. It is suitable for intelligent transportation, rail transportation, electric power industry, mining, metallurgy and green energy construction and so on. A reliable communication networks.

Managed model supports a variety of network redundancy protocol STP/RSTP/MSTP (<50ms). When one-way network fails, communication can be recovered quickly to ensure uninterrupted communication of important applications. MTL-POE3810M-8P industrial series products fully follow industrial product design and material. The shell adopts aluminum alloy to enhance heat dissipation efficiency, IP40 protection grade, and ensures the stable operation of the equipment in bad environment. According to the actual application needs, through Web, CLI, SNMP network management, POE power supply management, port flow control, VLAN division, STP, RSTP and other functions of the application service configuration.

Model	MTL-POE3810M-8P
Interface	8*10/100/1000Base-T PoE ports (Data/Power) 2*100/1000Base-X SFP slot (Data) 1 * RS232 console port (115200, N,8,1) 2 set of V+, V- redundant DC power interface (4 Pin Phoenix terminal)
PoE Port	Port 1-8 supports POE @ IEEE802.3af/at
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE802.3x
PoE Standard	IEEE802.3af/at
Ethernet Port Feature	10/100/1000BaseT (X) automatic detection, full / half duplex MDI/MDI-X adaptive
SFP Port Characteristic	Gigabit SFP optical fiber interface, default matching optical modules, need to buy separately, (optional order mode / multi-mode, single fiber / double fiber optical module.
Forwarding Mode	Store and Forward
Switching Capacity	192bps (Non-blocking)
Forwarding Rate@ 64byte	14.88Mpps
MAC	8K
Buffer Memory	4M
Jumbo Frame	10K
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meter) 100BASE-TX: Cat5 or later UTP (≤100 meter) 1000BASE-T: Cat5e or later UTP (≤100 meter)
Optical Cable	Multimode: 850nm 0 ~ 500M; Single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.
Power Supply Pin	Only support 1/2 (+), 3/6 (-) 4-core power supply
Working Voltage	12-40VDC; 5 Pin industrial Phoenix terminal, support anti-reverse protection.
Max Power Per Port	30W; IEEE802.3af/at
Input Voltage	**Input Voltage:12V-40V; Output Voltage:48V；12V Booster.**
Power Consumption	Standby:<8W; Full load:<240W
LED Indicator	Power indicator: PWR (Green); Network indicator: 1-8(Link/Act)/ (Orange),9-10(Link/Act)/ (Green); POE indicator: PoE (Green)
Power Supply	No, optional 24V/120W industrial power supply
Operation TEMP / Humidity	-40~+85°C;5%~90% RH Non condensing

Storage TEMP / Humidity	-40~+125°C;5%~95% RH Non condensing
Dimension	165*120*52mm
Net /Gross Weight	<0.8kg / <1.2kg
Lightning protection / protection level	Lightning protection: 6KV 8/20us; Protection level: IP40 IEC61000-4-2(ESD): ±8kV contact discharge, ±15kV air discharge IEC61000-4-3(RS):10V/m(80~1000MHz) IEC61000-4-4(EFT): power cable: ±4kV; data cable: ±2kV IEC61000-4-5(Surge): power cable:CM±4kV/DM±2kV; data cable: ±4kV IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s IEC61000-4-9(pulsed magnet field):1000A/m IEC61000-4-10(damped oscillation):30A/m 1MHz IEC61000-4-12/18(shockwave):CM 2.5kV, DM 1kV IEC61000-4-16(common-mode transmission):30V; 300V,1s FCC Part 15/CISPR22(EN55022): Class B IEC61000-6-2(Common Industrial Standard)
Certification	CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;
Warranty	5 years, lifelong maintenance.

Business features (only restricted management function models)	
Port	Support IEEE802.3x flow control (full duplex) Support for broadcast storm suppression based on port rate support speed limit for incoming and offline message traffic, with a minimum particle size of 64Kbps. Support port temperature protection settings Support port EEE green Ethernet energy saving configuration
PoE Management	Support total power limit configuration for POE power supply Support PoE output power allocation per port, close / start af/at Support PoE output priority configuration per port Support PoE work status per port display Support power delay start Support PoE work and time scheduling
Layer 3 Function	L2+ network management function Support IPV4/IPV6 management Support layer3 soft routing (weak three tier) forwarding, Support different network segments, communication between different VLAN Support static routing / default routing 128, 1024 ARP software forwarding
VLAN	Support port based VLAN (4K), IEEE802.1q Support protocol based VLAN Support Voice VLAN Support for MAC address-based VLANs Support Access, Trunk, Hybrid three types of port configuration Support QinQ configuration

Port Aggregation	Support LACP
	Support static polymerization
	Support the largest 8 aggregation groups, each aggregation group supports 8 ports.
Spanning Tree	Support STP (IEEE802.1d)
	Support STPRSTP (IEEE802.1w)
	Support STP MSTP (IEEE802.1s)
Industrial Ring Network Protocol	Support G.8032 (ERPS), support 255 loops at most, and supports 1024 devices per ring. The self-healing time of the ring network is less than 20ms
Multicast	Support IGMP Snooping V1/V2 and support 1024 multicast groups at most.
	Support the user's quick departure mechanism
	Support MLD Snooping V1/V2
	Support multicast VLAN
Mirror	Bi-directional traffic mirroring supporting the basic port
QoS	Support Diff-Serv QoS
	Each port supports 8 output queues
	Support 802.1p/DSCP priority mapping
	Support queue scheduling mechanism (SP, WRR, SP+WRR)
	Support priority tag Mark/Remark
	Support stream-based packet filtering
	Support for stream-based redirection
	Support flow-based speed limit
ACL	Support L2 to L4 packet filtering function, can match the first 80 bytes of the message, provide based on the source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN and other definition ACL.
	Support ACL based on port and VLAN
Safety Characteristics	Support user grading management and password protection
	Support IEEE802.1X authentication / centralized MAC address authentication
	Support AAA&RADIUS authentication
	Support the number of MAC address learning restrictions
	Support MAC address black hole
	Support SSH 2.0 to provide secure passwords for user login.
	Support SSL to ensure data transmission security
	Support port isolation
	Support the speed limit function of ARP message
	Support IP source address protection
	Support ARP intrusion detection function
	Support against DoS attacks
	Support port broadcast message suppression
	Support host data backup mechanism
	Binding capabilities of IP+MAC+VLAN+ ports

DHCP	Support DHCP Client
	Support DHCP Snooping
	Support DHCP Serve
	Support DHCP Relay
Management and Maintenance	Support Console/AUX Modem/Telnet/SSH2.0 CLI command line configuration
	Support WEB network management (HTTPS)
	Support FTP, TFTP, Xmodem, SFTP file download management
	Support SNMP V1/V2C/V3
	Support one bond reduction
	Support NTP clock
	Support system work log
	Support Ping detection
	Support cable state detection
	Support CPU instant utilization status view
	Support link layer discovery protocol LLDP
	Support NMS intelligent management center
System Requirements	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later;
	Cat5e or later Ethernet cable;
	TCP/ IP, network adapter and network operating system (Microsoft Windows, Linux or Mac OS X) installed on every computer in the network.

APPLICATION

PACKING LIST

CONTENT	QTY	UNIT
8 Port 1000M 802.3at Industrial PoE Ethernet Switch (MTL-POE3810M-8P)	1	SET
User Guide	1	PC
Warranty Card	1	PC

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