

EMI-100-1S1RP

10/100M PoE Industrial 1 fiber port+1 RJ45 port Media Converter



Product Description

The series POE Unmanaged Industrial Ethernet Switches (POE Industrial Multi-Port Optical Transceivers) are designed for harsh industrial environments and can achieve the conversion between 1*10/100Base-Tx (with POE capability) twisted pair electrical signals and 1*100Base-Fx optical signal, through the use of switching technology and storage forwarding technology to achieve the transfer of data between the two network connection media.

Product Features

- Realize the conversion between 1 (optional PoE function) 10M, 100M Ethernet RJ45 port and 1 optical port;
- Industrial Ethernet series designed for harsh industrial environments;
- 1*10/100Base-Tx RJ45 port complying with IEEE 802.3af/at POE standard and 1*100Base-Fx optical port;
- Each POE port provides up to 15.4W/30W of 48V DC power output;
- Electrical interface (RJ45 port) Support 10/100M adaptive, full/half duplex mode, MDI/MDI-X auto-detect;
- Built-in efficient exchange core, providing 4 switched 10/100Base-Tx twisted pair Ethernet port, supports VLAN group , to achieve electrical port backup and multi-user access;
- Optical interface supports three optical fiber transmission modes: dual-fiber multi-mode,

- dual-fiber single-mode, single-fiber single-mode, SC/ST/FC interface optional;
- A complete range of transmission distances, up to 120 km of transmission;
 - Ultra-low latency and flexible caching technology: Adopt "store-and-forward" mode, seamlessly connect devices of different rates and work mode adaptive;
 - Support a wide range of AC and DC input;
 - Support internal isolation, redundant dual power input;
 - Power support overload protection, anti-reverse protection;
 - Meet the industrial four electromagnetic compatibility requirements;
 - Super lightning protection function: the use of imported lightning protection devices, anti lightning, anti-induced high voltage, anti-surge, etc.;
 - Lightning protection level: Power Interface Level 4 lightning protection;
 - Fanless cooling, reduce repair time;
 - IP40 enclosure rating to withstand the harsh environment of the test;
 - Rail or wall-mounted installation ;

Technical Specification

Technical Parameters	Parameter Description	
Exchange attributes	MAC address table: 2K Packet buffer: 1Mbit Packet forwarding rate: 0.8Mpps Exchange delay: <5μs	
Forwarding Mode	Store-and-Forward	
Maximum filtration speed	148800pps (100M)	
Ethernet interface electrical	Number of interfaces	1
	Protocol Standards	IEEE802.3 IEEE802.3u 10/100Base-Tx
	Rate	10/100Mbps adaptive
	Duplex mode	full/half duplex
	Connection	cable cross / straight adaptive
	Transmission distance	CAT5 twisted pair: 100m
	Interface type	RJ45 interface
	802.3af/at POE ports	Each POE port outputs 48-50V, 600mA, providing 15.4W/30W of power for the load;V +, V- corresponds to two pairs of data lines 1/2 and 3/6 (End-Span PSE)
Ethernet Optical interface	Number of interfaces	1
	Protocol Standards	IEEE802.3u 100Base-Fx

	Rate	100Mbps
	Wavelength	1310nm/1550nm
	Transmission distance	Dual fiber Multi-mode: 5KM Dual fiber Single-mode /single fiber Single-mode: 20/40/60/80KM
	Interface type	SC/ST/FC/LC interface optional, single mode or multimode fiber
Power supply	<p>Input Voltage: 24VDC (18 ~ 36VDC) ,Redundant dual power input</p> <p>Input current: <0.5A@24VDC</p> <p>Overload protection: support</p> <p>Reverse connection protection: support</p> <p>Redundant protection: support</p> <p>Access terminal: 6-pin 5.08mm pitch plug-in terminal</p>	
Mechanical Features	<p>Shell: IP40 protection grade, metal material</p> <p>Size: 140mm (length) x 118mm (width) x 60.5mm (height)</p> <p>Weight: 690g</p> <p>Installation: rail installation, wall-mounted installation</p>	
Working environment	<p>Operating temperature: -40 ° C ~ + 85 ° C</p> <p>Storage temperature: -40 ° C ~ + 85 ° C</p> <p>Relative humidity: 5 ~ 95% (non- condensing)</p>	
Industry Standard	<p>Safety: UL 60950-1</p> <p>EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A.</p> <p>EMS:</p> <p>EN61000-4-2 Anti-static: ± 6KV contact discharge, ± 8KV air discharge</p> <p>EN61000-4-3 Electromagnetic field: 10V / m (80 ~ 1000MHz)</p> <p>EN61000-4-4 Instantaneous high voltage: ± 4KV power cord, ± 2KV data line</p> <p>EN61000-4-5 surge voltage: ± 4KV / CM, ± 2KV / DM power cord, ± 2KV data line</p> <p>EN61000-4-6 anti-conduction: 3V (10KHz ~ 150KHz), 10V (150KHz ~ 80KHz)</p> <p>Machinery: IEC60068-2-6 (vibration) IEC60068-2-27 (impact)</p> <p>IEC60068-2-32 (free fall)</p> <p>Industry: IEC61000-6-2</p> <p>Railway: EN50155, EN50121-4</p> <p>Traffic Control: NEMA TS-2</p>	
Warranty	3-years	