



EMI-100-1S1RDRP

10/100M Industrial PoE Media Converter

Features:

- 1*10/100Base-TX RJ45 PoE port, 1*100Base-FX SFP(SC/ST/FC optional) fiber port
- DC 48-52V input, redundant power supply with polarity reverse/over-voltage protection
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- Support 10K Bytes Jumbo frame and 1M large buffer
- Support 4KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- IP30 fan-less and Din-rail hardware
- Operation temperature: -40 °C ~+75°C

Overview

The unmanaged industrial grade media converter with 1-port 10/100Base-TX PoE and 1-port 100Base-FX fiber optical interface. They comply with IEEE802.3af, IEEE802.3at standard PoE protocol, the Max power consumption can reach 30W (PoE+) Moreover, they are featuring with LFP, flow control, 250m long distance transmission mode and PoE watchdog function, which all can be configured by the Dip switch on the top panel.

EMI-100-1S1RDRP are also high cost-effective easy-to-use devices, which provide essential industrial Ethernet networking function, such as wide range power input 48-52VDC, redundant power design with polarity reverse/over-voltage protection, robust IP30 fan-less compact size housing with Din-rail installation, wide operation temperature from -40°C ~+75°C as well as high-level EMI/EMC capability and so on. It is the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions exceed commercial product specifications.

Technical specification

Model No.	EMI-100-1S1RDRP	
Interface	Fiber port	Copper RJ45 port
	1	1
Ethernet	1*10/100Base-TX PoE 1*100Base-FX SFP (SC/ST/FC optional)	
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet	



	IEEE 802.3x Full-Duplex Flow Control IEEE 802.3af Power-Over-Ethernet IEEE 802.3at Power Over Ethernet plus PSE		
Dip Switch	1. LFP 2. Flow control 3. 250m long distance mode 4. PoE watchdog		
LED Indicators	PW(Power indicator) Green	Off: the device is power off or failed	
		On: the device power on is normal	
	1X (Copper port)	Green indicators	
		Off: ports link down	
		On: ports link up	On: PoE working
	Blinking: data on TX/RX		
	FX (Fiber port) Green	Off: ports link down	
On: ports link up			
Blinking: data on TX/RX			
Power parameters			
Input voltage	48-52VDC, redundant power input		
Input current	0.75A Max		
Total power consumption	Full loading without PoE ≤ 2W PoE power budget ≤ 30W		
Connector	Removable 4-pin terminal block		
Reverse polarity protection	Support		
Over-voltage protection	Support		
Switching features			
Switching capacity	0.4G		
Packet forwarding rate	0.59Mpps		
MAC address table	8K		
VLAN	4K		
Buffer	1M		
Forwarding delay	<10us		
Jumbo Frame	Support 10Kbytes		



MDX/MIDX	Support
Watchdog	Support
Network Topology	
Star topology	Support
Bus topology	Support
Tree Topology	Support
Mechanical structure	
Case protection	IP30
Installation method	Din-rail
Dimension(W*D*H)mm	117*91*27mm
Weight	0.4 kg
Operating environment	
Operating temperature	-40°C~+75°C
Storage/transportation temperature	-40°C~+85°C
Relative humidity	5%~95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4KV/2KV) (8/20us)
	Surge protection of Ethernet ports: IEC 61000-4-5 Level 3 (4KV/2KV) (10/700us)
	DIP: IEC 61000-4-11 Level 3 (10V)
	ESD: IEC 61000-4-2 Level 4 (8K/15K)
	Shock: IEC 60068-2-27
	Free fall: IEC 60068-2-32
	Vibration: IEC 60068-2-6
Warranty	1 year