

Industrial PoE Media Converter

SIL 73101P

RJ45 / SFP Industrial PoE Media Converter



SIL 73101P
2 Port Industrial PoE Media Converter
1 x RJ45 + 1 x SFP

OVERVIEW

To ensure the SIL 73101P can withstand harsh environments, the enclosure plays a crucial role in meeting industrial-grade standards. Unlike steel or iron, aluminium has several advantages that make it a widely used metal material.

The SIL 73101P is a rugged Industrial Fibre Media Converter designed to operate reliably in harsh environments. It features a fanless design and low power consumption, which eliminates the need for maintenance. Additionally, mature technology and open network standards enable the SIL 73101P to operate efficiently at both low and high temperatures. Moreover, it is resistant to electric interference, salt fog, vibration, and shocks, making it suitable for various applications.

The SIL 73101P also includes redundant dual power supplies, which enhances its reliability for always-on connections.

The SIL 73101P supports fibre-optic link capacity, which allows network deployment to extend from 550 meters to 2 kilometres for multi-mode fibre and up to 10/20/40/60/80/120 kilometres for single-mode or WDM fibre. Video surveillance administrators can select a suitable SFP transceiver based on the transmission distance and speed requirements, making it ideal for applications within enterprise data centres and distributed systems.

Features

- All-aluminium Case, Compact and Fanless Design
- 10/100Mbps or 10/100/1000Mbps Full/Half
- Duplex, Auto-Negotiation and Auto-MDI/MDIX
- Support IEEE 802.3af/at PoE Standard, without damaging non-PoE devices
- Operating Temperature from -40 to 75°C
- Dual Redundant DC9~56V power input
- Support power input polarity protection; no worries about the reverse connection
- Aluminium shell, fanless design
- Free fall, shock-proof and vibration-proof for industries
- Plug and play; no software configuration is needed
- Either DIN rail or Wall Mount installation
- 5 Year Warranty as Standard

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Technical Specifications

Part No.	SIL 73101P
Ethernet Interface	
RJ45	1x 10/100/1000Base-Tx
Optical	1x 1000Base-X SFP Slot
Port Mode(Tx)	Auto Negotiation Speed Full/Half Duplex Mode Auto MDI/MDI-X Connection
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3z for 100BaseSX/LX/LHX/ZX IEEE 802.3x for flow control
Max Packet Length	Up to 10K
Forward Filter Rate	14,880pps (10Mbps) 148,800pps (100Mbps) 1,488,000pps (1000Mbps)
Transmission Distance	SFP Port: Depends on optical module(0-160km) RJ45 Port Transmission Distance: 100m (using standard CAT5/CAT5e cable)
PoE & Power Supply	
PoE Port	IEEE802.3af/at @PoE+
Power Supply Pin	Default: 1/2(+), 3/6(-)
Max Power Per Port	30W
Total PWR / Input Volt	30W (DC48-56V)
PSE Modes	Mode A
Power Consumption	Single Channel: 2 Watts Max (without PoE load) Dual Channel: 4 watts Max (without PoE load)
Power Inputs	2
Input Voltage	9-56VDC Redundant Dual Input
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 Specifications

Part No.	SIL 73101P
Physical Characteristics	
Housing	Aluminum case
IP Rating	IP40
Dimensions	138mm*108mm*49mm
Installation	DIN Rail or Wall Mount
Weight	350g
Environmental	
Operating Temperature	-40°C~75°C (-40 to 167 °F)
Operating Humidity	5%~90% (non-condensing)
Storage Temperature	-40°C~85°C (-40 to 185 °F)
MTBF	2,332,497 Hours Standard: Telcordia SR-332 GF 30°C
Heat Dissipation	109 BTU/h (1Ch 30W PoE)
Standards	
EMC/EMI/EMS	FCC Part15 Class A CE-EMC/LVD RoHS EN61000-4-2 (ESD):LEVEL 4 IEC 6100-4-2 (EFT):LEVEL 4 IEC 6100-4-2 (Surge): LEVEL 4 IEC 6100-4-2 (CS) : LEVEL 3 IEC 61000-4-2(PFMP) : LEVEL 5 EN61000-4-3 (RS):LEVEL 4
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Freefall	IEC60068-2-31
Safety	EN 60950-1, UL 60950-1, CSA C22.2 No.60950-1, UL 508
Package Contents	
Device	1x Industrial Ethernet Switch
Installation Kit	1x DIN-Rail Clip 2x Wall-Mount Kit
Documentation	1x Quick Installation Guide 1x Warranty Card 1x Product Notice
Warranty	5 Year Warranty including lifetime technical support

Dimension Diagrams

