TH-6F0101P

Industrial Media Converter 1xGigabit SFP, 1x10/100Base-T PoE

Overview

TH-6F0101P Industrial Ethernet PoE Media Converter, is fan-less and energy-saving design, provide reliable power solution for SMBs deploying Power over Ethernet networks. It is small, convenient and easy to maintain and offers high reliability and security to guarantee the continuous industrial operation in harsh environments from -40℃~ +75℃, such as control cabinet of transportation, factory floors, outdoors, or other low or high temperature environments.

Features

- Complies with the IEEE 802.3, IEEE 802.3u, IEEE 802.3af, IEEE 802.3at
- Auto-MDI/MDI-X detection and negotiation in half/full-duplex modes for 10/100Base-TX RJ-45 port
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- Supports packet size of up to 10K bytes
- Robust IP40 protection, fan-less design, high/low temperature resistance -40℃~ +75℃
- DC48V-58V input
- CSMA/CD protocol
- Automatic source address learning and aging

Specifications

Provider Mode Ports

Fixed Port	1*10/100Mbps Ethernet PoE Port, 1*1000Mbps SFP Port
Power Interface	Phoenix terminal, Dual power input
LED Indicators	PWR, OPT, NMC, ALM

Cable Type & Transmission Distance

Twisted-pair	0-100m (CAT5e, CAT6)
Mono-mode Optical Fiber	20/40/60/80/100KM
Multi-mode Optical Fiber	550m

Network Topology

Ring Topology	Not support
Star Topology	Support
Bus Topology	Support
Tree Topology	Support

PoE Support

PoE Port	1
PoE Standard	IEEE 802.3af, IEEE 802.3at
Pin Assignment	1, 2, 3, 6
Input Voltage	DC48-58V input
Total Power Consumption	<36W

Layer 2 Switching

Switching Capacity	14Gbps
Packet Forwarding Rate	10.416Mpps
MAC Address Table	8K
Buffer	1M
Forwarding Delay	<5us
MDX/MIDX	Support
Jumbo Frame	Support 10K bytes
Port Isolation	Support

DIP Switch

1 I/R	Remote PD Reset
2 VLAN	VLAN
3 Q/I	Port Isolation
4 F/P	VIP Power Supplying & QoS

Environment

Operating Temperature	-40℃~+75℃
Storage Temperature	-40℃~+85℃
Relative Humidity	10%~95% (non-condensing)
Thermal Methods	Fanless design, natural heat dissipation
MTBF	100,000 hours

Mechanical Dimensions

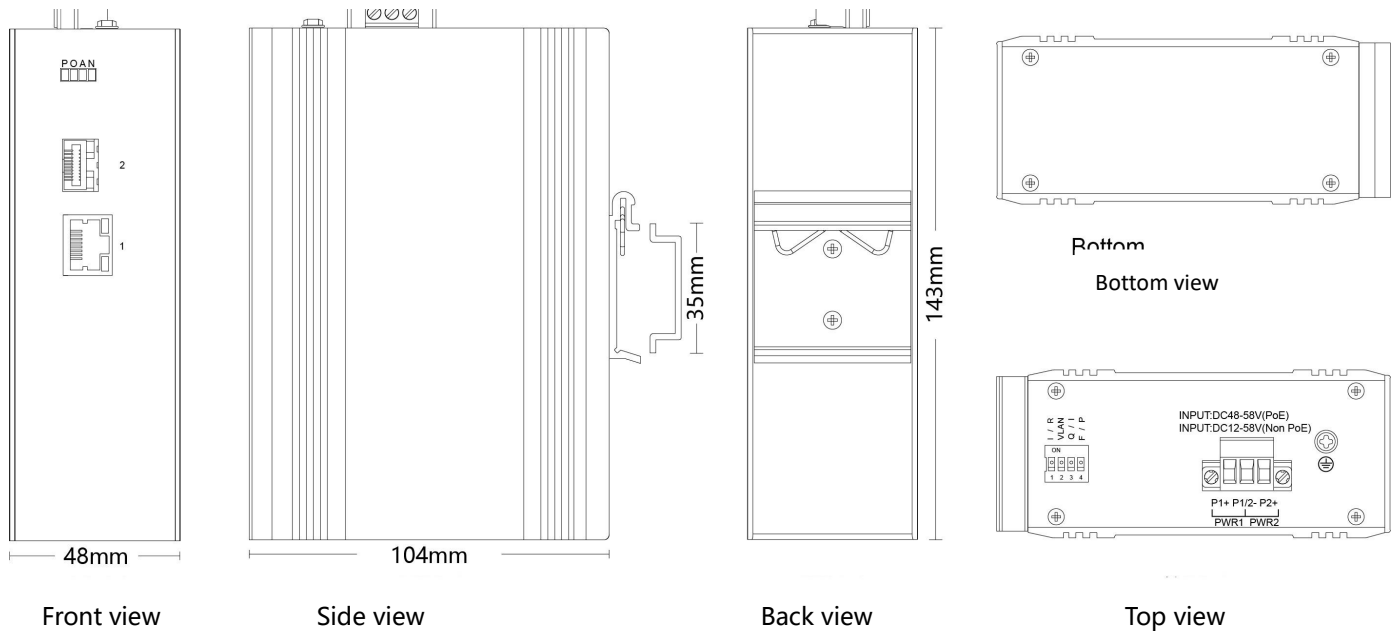|	
Product Size	143*104*48mm
Installation Method	Din-Rail
Net Weight	0.6KGs

EMC & Ingress Protection

IP Level	IP40
Surge Protection of Power	IEC 61000-4-5 Level X (6KV/4KV) (8/20us)
Surge Protection of Ethernet Port	IEC 61000-4-5 Level 4 (4KV/4KV) (10/700us)
RS	IEC 61000-4-3 Level 3 (10V/m)
EFI	IEC 61000-4-4 Level 3 (1V/2V)
CS	IEC 61000-4-6 Level 3 (10V/m)
PFMF	IEC 61000-4-8 Level 4 (30A/m)
DIP	IEC 61000-4-11 Level 3 (10V)
ESD	IEC 61000-4-2 Level 4 (8K/15K)
Free Fall	0.5m

Certificate

Security Certificate	CE, FCC, RoHS

Dimensions

Front view   Side view   Back view   Top view

Ordering Information

P/N	Description
TH-6F0101P	Unmanaged Industrial PoE Media Converter 1x1000Mbps SFP Port, 1x10/100/1000M RJ45 Port PoE
TH-6F0101	Unmanaged Industrial Media Converter 1x1000Mbps SFP Port, 1x10/100/1000M RJ45 Port