

# TH-4F0101P

Industrial Media Converter 1 x 100Base-X SFP, 1 x 10/100Base-T PoE



## Overview

TH-4F0101P 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  $-30^{\circ}\text{C} \sim +75^{\circ}\text{C}$ , 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-duplex/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 2K bytes
  - Robust IP40 protection, fan-less design, high/low temperature resistance  $-30^{\circ}\text{C} \sim +75^{\circ}\text{C}$
  - DC48V-58V input
  - CSMA/CD protocol
  - Automatic source address learning and aging
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## Specifications

### Provider Mode Ports

Fixed Port	1*10/100Mbps Ethernet PoE Port, 1*100Mbps SFP Port
Power Interface	Phoenix terminal, Dual power input

LED Indicators	P1, P2, OPT
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### Cable Type & Transmission Distance

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

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

PoE Port	1
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PoE Standard	IEEE 802.3af, IEEE 802.3at
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Pin Assignment	1, 2, 3, 6
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Input Voltage	DC48-58V input
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Total Power Consumption	<35W
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### Layer 2 Switching

Switching Capacity	1Gbps
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Packet Forwarding Rate	0.297Mpps
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MAC Address Table	2K
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Buffer	768K
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Forwarding Delay	<5us
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MDX/MIDX	Support
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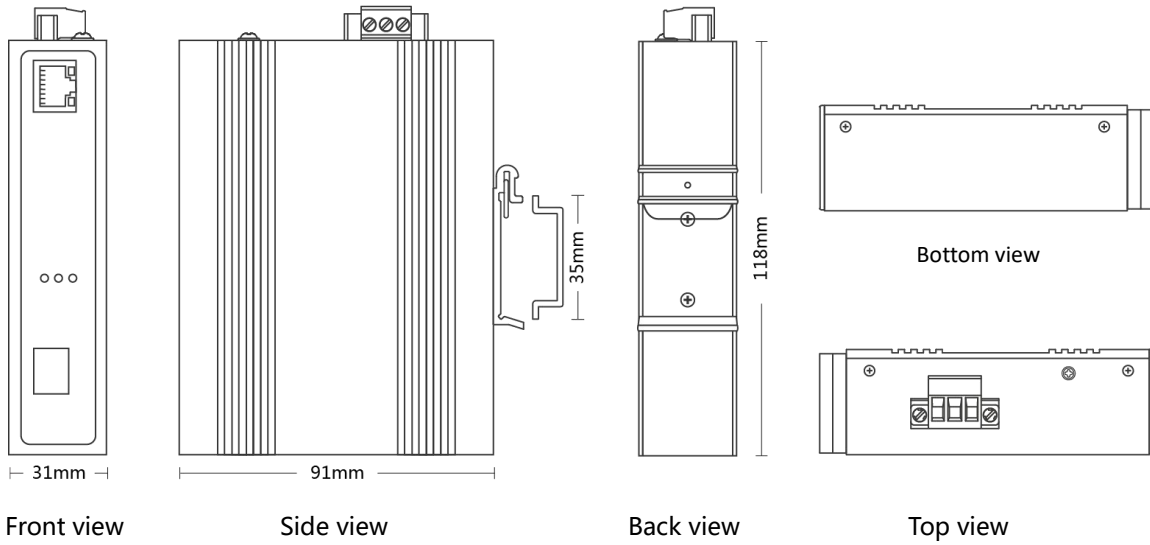
Jumbo Frame	Support 2K bytes
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LFP	Support
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Storm Control	Support
Port Isolation	Support
<b>DIP Switch</b>	
1 LFP	LFP/ Remote PD Reset
2 LGY	LEGACY (Standard & Non-standard PoE)
3 VLAN	Port Isolation
4 BSR	Storm Control Configuration
<b>Environment</b>	
Operating Temperature	-30°C~+75°C
Storage Temperature	-30°C~+85°C
Relative Humidity	10%~95% (non-condensing)
Thermal Methods	Fanless design, natural heat dissipation
MTBF	100,000 hours
<b>Mechanical Dimensions</b>	
Product Size	118*91*31mm
Installation Method	Din-Rail
Net Weight	0.36KGs
<b>EMC &amp; Ingress Protection</b>	
IP Level	IP40
Surge Protection of Power	IEC 61000-4-5 Level 3 (4KV/2KV) (8/20us)
Surge Protection of Ethernet Port	IEC 61000-4-5 Level 3 (4KV/2KV) (10/700us)
ESD	IEC 61000-4-2 Level 4 (8K/15K)
Free Fall	0.5m
<b>Certificate</b>	
Security Certificate	CE, FCC, RoHS

## Dimensions



## Ordering Information

P/N	Description
TH-4F0101P	Unmanaged Industrial PoE Media Converter 1x100Mbps SFP Port, 1x10/100M RJ45 Port PoE
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