

TH-6F0102

Industrial Media Converter 1xGigabit SFP, 2x10/100Base-T



Overview

TH-6F0102 Industrial Ethernet 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 $-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$, 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
- 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 $-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$
- DC12V-58V input
- CSMA/CD protocol
- Automatic source address learning and aging

Specifications

Provider Mode Ports

Fixed Port 2*10/100Mbps Ethernet 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

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 Port Isolation

2 VLAN VLAN

3 Q/I QoS

4 F/P Flow Control

Environment

Operating Temperature -40°C~+75°C

Storage Temperature	-40°C~+85°C
Relative Humidity	10%~95% (non-condensing)
Thermal Methods	Fanless design, natural heat dissipation
MTBF	100,000 hours
Power Consumption	<6w

Mechanical Dimensions

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

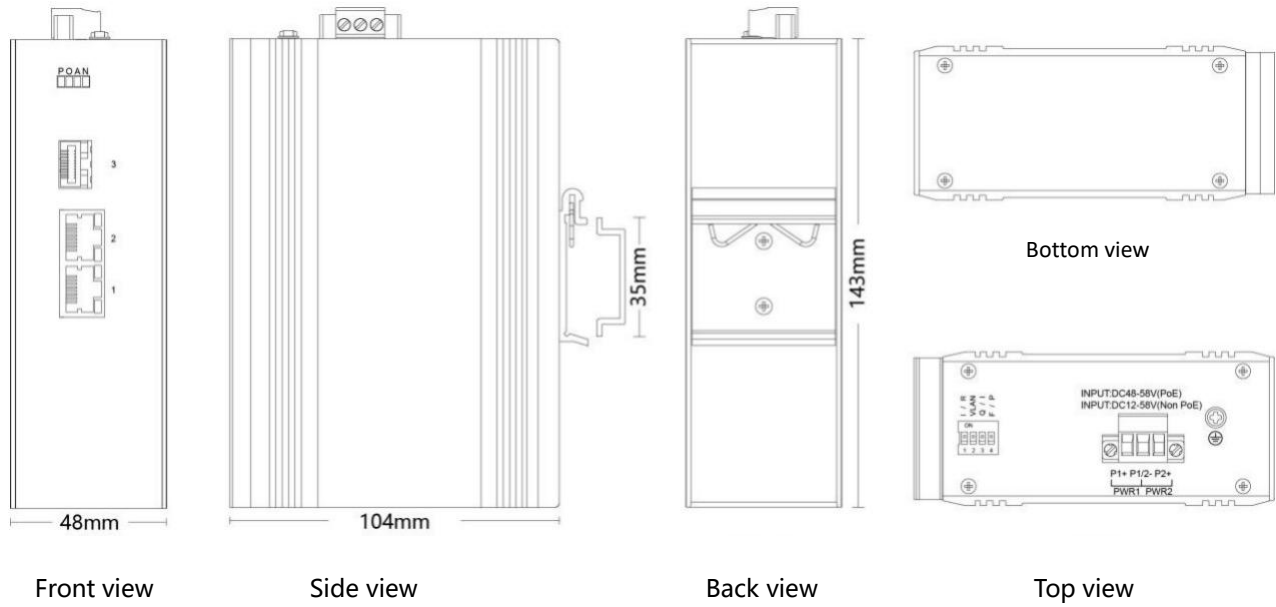
EMC & Ingress Protection

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
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Dimensions



Ordering Information

P/N	Description
TH-6F0102	Unmanaged Industrial Media Converter 1x1000Mbps SFP Port, 2x10/100/1000M RJ45 Port
TH-6F0102P	Unmanaged Industrial PoE Media Converter 1x1000Mbps SFP Port, 2x10/100/1000M RJ45 Port PoE