TH-4F0102

Industrial Media Converter 1 x 100Base-X SFP, 2 x 10/100Base-T

Overview

TH-4F0102 Industrial Ethernet Media Converter uses store-forward architecture, fan-less and energy-saving design. The advantage of product is small, convenient and easy to maintain. It applies to the wide range of operating temperature from -30℃~ +75℃ with stable and reliable performance, widely applied to various broadband data transmission fields such as intelligent transportation, telecommunications, security, financial securities, customs, shipping, power, water conservancy and oil fields.

Features

- Complies with the IEEE 802.3, IEEE 802.3u Fast Ethernet standard
- 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℃~ +75℃
- Wide power supply input DC12V-58V redundant
- CSMA/CD protocol
- Automatic source address learning and aging

Specifications

Provider Mode Ports	
Fixed Port	2*10/100Mbps Ethernet Port, 1*100Mbps SFP Port
Power Interface	Phoenix terminal, Dual power input
LED Indicators	P1, P2, OPT
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
Electrical Specifications	
Input Voltage	Redundant DC12-58V input
Total Power Consumption	<5W
Layer 2 Switching	
Switching Capacity	1Gbps
Packet Forwarding Rate	0.446Mpps
MAC Address Table	2K
Buffer	768K
Forwarding Delay	<5us
MDX/MIDX	Support
Jumbo Frame	Support 2K bytes
LFP	Support
Storm Control	Support
Port Isolation	Support

DIP Switch

1 LFP	LFP/ Remote PD Reset
2 LGY	LEGACY (Standard & Non-standard PoE)
3 VLAN	Port Isolation
4 BSR	Storm Control Configuration

Environment

Operating Temperature	-30℃~+75℃
Storage Temperature	-30℃~+85℃
Relative Humidity	10%~95% (non-condensing)
Thermal Methods	Fanless design, natural heat dissipation
MTBF	100,000 hours

Mechanical Dimensions

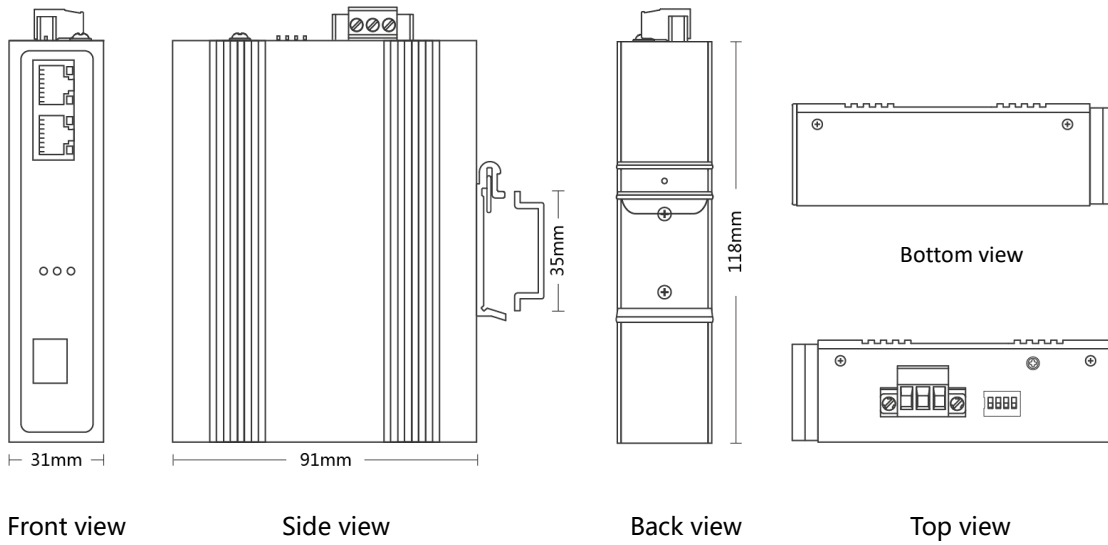|	
Product Size	118*91*31mm
Installation Method	Din-Rail
Net Weight	0.36KGs

EMC & Ingress Protection

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

Certificate

Security Certificate	CE, FCC, RoHS

Dimensions

Front view   Side view   Back view   Top view

31mm   91mm   35mm   118mm

Bottom view

Ordering Information

P/N	Description
TH-4F0102	Unmanaged Industrial Media Converter 1x100Mbps SFP Port, 2x10/100M RJ45 Port
TH-4F0102P	Unmanaged Industrial PoE Media Converter 1x100Mbps SFP Port, 2x10/100M RJ45 Port PoE