

TH-4G0101

Industrial Media Converter 1xGigabit SFP, 1x10/100/1000Base-T



Overview

TH-4G0101 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 $-30^{\circ}\text{C} \sim +75^{\circ}\text{C}$ 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/full-duplex modes for 10/100/1000Base-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 $-30^{\circ}\text{C} \sim +75^{\circ}\text{C}$
- Wide power supply input DC12V-58V redundant
- CSMA/CD protocol
- Automatic source address learning and aging

Specifications

Provider Mode Ports

Fixed Port	1*10/100/1000Mbps Ethernet Port, 1*1000Mbps SFP Port
Power Interface	Phoenix terminal, Dual power input

LED Indicators	PWR, Link/ACT LED
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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
Hybrid Topology	Support

Electrical Specifications

Input Voltage	Redundant DC12-58V input
Total Power Consumption	<5W

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
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 RST	Reset

Environment

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

Mechanical Dimensions

Product Size	118*91*31mm
Installation Method	Din-Rail
Net Weight	0.4KGs

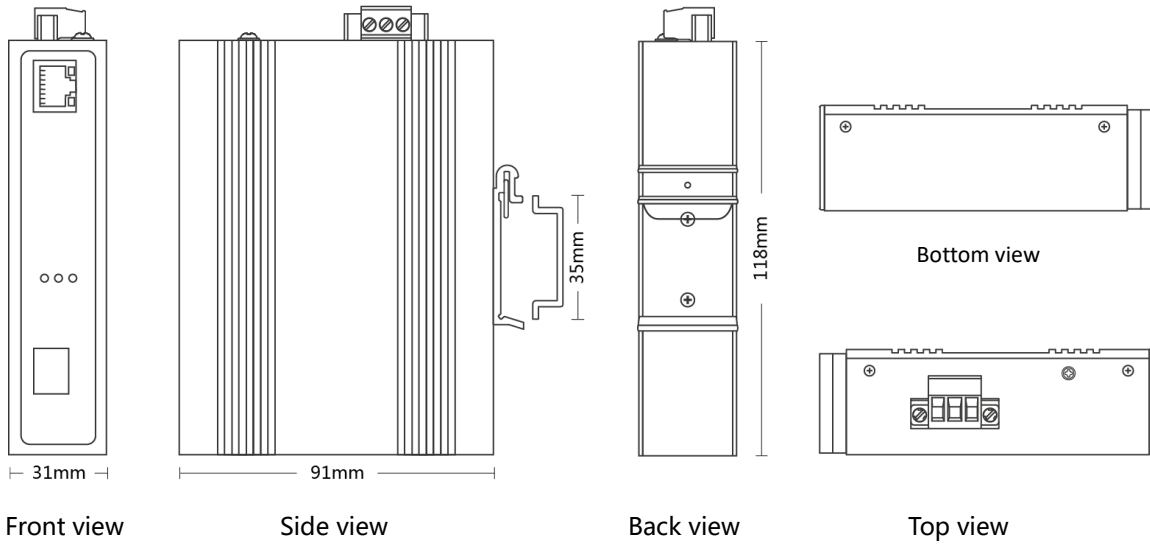
EMC & Ingress Protection

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
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Dimensions



Ordering Information

P/N	Description
TH-4G0101	Unmanaged Industrial Media Converter 1x1000Mbps SFP Port, 1x10/100/1000M RJ45 Port
TH-4G0101P	Unmanaged Industrial PoE Media Converter 1x1000Mbps SFP Port, 1x10/100/1000M RJ45 Port PoE