

TH-6G0101

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



Overview

TH-6G0101 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 10/100/1000Base-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 $-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$
- DC12V-58V input
- CSMA/CD protocol
- Automatic source address learning and aging

Specifications

Provider Mode Ports

Fixed Port	1*10/100/1000Mbps Ethernet Port, 1*1000Mbps SFP Port
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Power Interface	Phoenix terminal, Dual power input
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LED Indicators	PWR, OPT, NMC, ALM
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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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Layer 2 Switching

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

1 I/R	Port Isolation
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2 VLAN	VLAN
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3 Q/I	QoS
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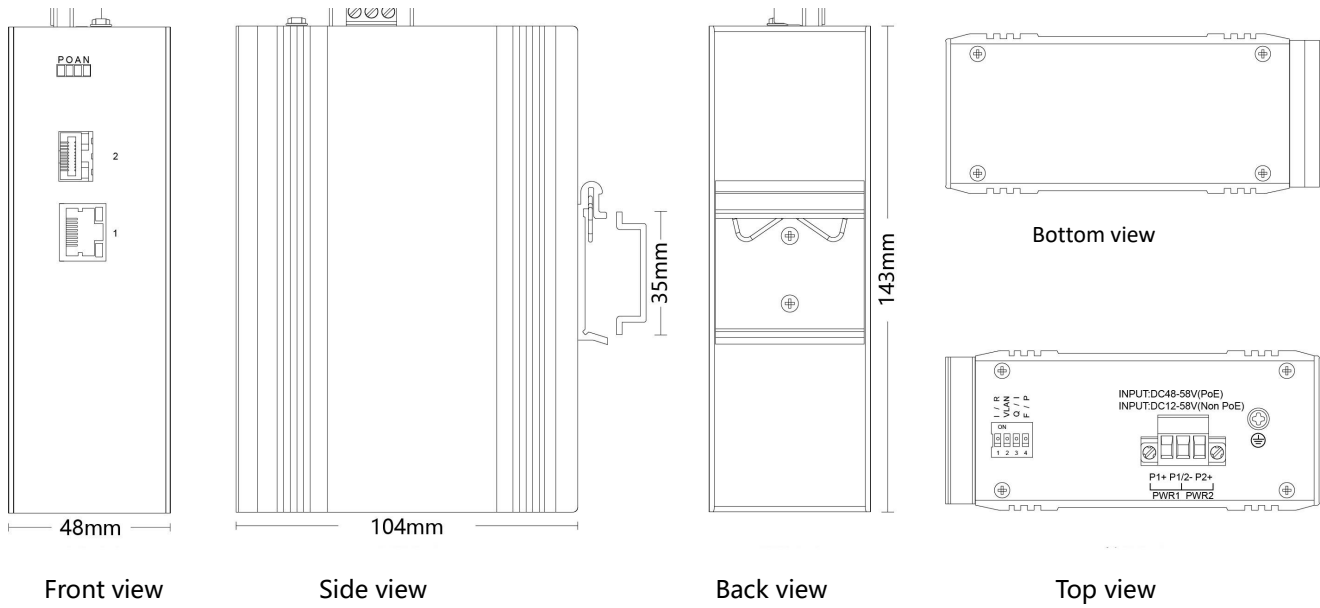
4 F/P	Flow Control
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Environment

Operating Temperature	-40°C~+75°C
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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

Dimensions



Ordering Information

P/N	Description
TH-6G0101	Unmanaged Industrial Media Converter 1x1000Mbps SFP Port, 1x10/100/1000M RJ45 Port
TH-6G0101P	Unmanaged Industrial PoE Media Converter 1x1000Mbps SFP Port, 1x10/100/1000M RJ45 Port PoE