



4002TG-PoE Datasheet

Aiming to create better and safer working environments and life experiences through the products we deliver.



***90W 10-Gigabit
Industrial PoE
Media Converter***

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90W 10-Gigabit Industrial PoE Media Converter: An Excellent Solution for High-Power, High Throughput Industrial Applications.

4002TG-PoE

Industrial PoE Media Converter supports one 100M/ 1G /2.5G /5G/10G Base-T adaptive PoE port and one 100M/ 1G/ 2.5G/ 10GSFP+ Fiber slot. One of the ports supports IEEE802.3 af/ at/ bt standard for PoE supply, with a single port PoE power up to 90W.

It is a metal casing for enhanced heat dissipation and superior adaptability to harsh industrial conditions, climatic resilience, and electromagnetic compatibility. With an IP40 rating and dual redundant power supply, it offers a 35-year MTBF and a 5-year warranty, representing a valuable investment for projects in transportation, power utilities, mining, and renewable energy sectors



POE++
Up to **90W**



Features & Benefits

Ethernet Switching

- One (1) 100M/1G/2.5G/5G/10G Base-T(X) RJ-45 ports
- One (1) 100M/1G/2.5G/10G SFP+ Fiber
- 8K MAC address table
- Store and forwarding with non-blocking technology
- 12KB Jumbo Frames

Power protection

- Provide overload protection
- Provide reverse connection protection

Rugged Mechanical Design

- Robust design protects from mechanical deformation
- IP40 industrial rating to withstand harsh environments
- Wide operating temperature range -40°C ~ +80°C
- 35-year MTBF and a 5-year warranty

IEEE 802.3u EEE Power Management

- Up to 90W at PoE port
- Support up to 10G PoE, IEEE802.3af/at/bt
- Energy Efficient Ethernet for low power requirement
- Idle power saving mode for energy efficiency

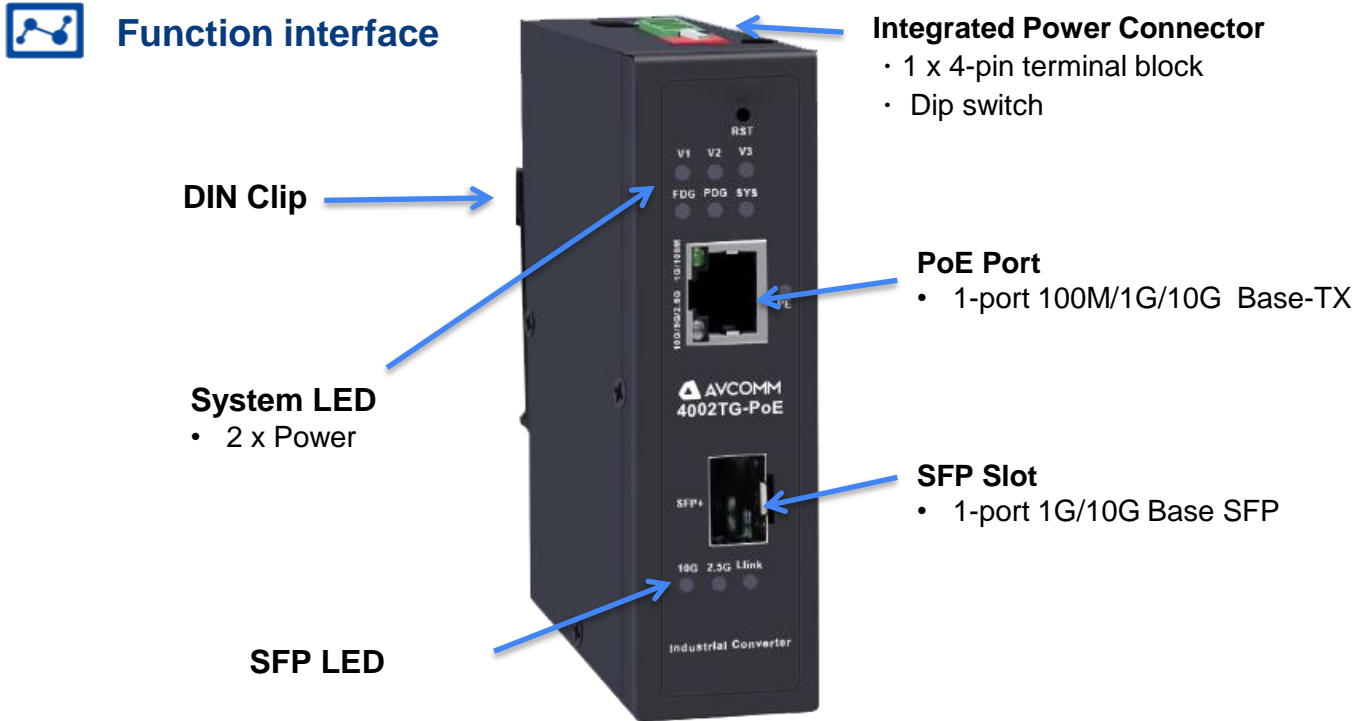


Order Information

Model Name	Description
4002TG-PoE	90W 10-Gigabit Industrial PoE Media Converter, 1 RJ45 100M/1G/2.5G/5G/10G BaseT(X) Auto-negotiation, with PoE/PoE+/PoE++ supported, 1 100M/1G/2.5G/10G BaseSFP Slot , Dual power Input 48VDC(37~57), -40°C to +80°C

Specifications

Technology													
Standard	IEEE802.3 10BASE-T;IEEE802.3i10Base-T;IEEE802.3u;100Base-TX/FX; IEEE802.3ab1000Base-T;IEEE802.3z1000Base-X;IEEE802.3ae10GBase SR/LR, IEEE802.3af/at/bt												
Performance													
Switch Technology	Store and Forwarding Technology with non-blocking												
Number of MAC Address	8K												
Jumbo Frames	12KB												
Packet Buffer Memory	8 MB												
Backplane bandwidth	40 Gbps												
Forwarding rate	29.76 Mpps												
Interface													
Ethernet Port	1 x 100/1000/10000 BaseT(x)RJ-45 , 1 x 1G/10G FX, auto-MDI/MDI-X												
System LED	Power: Green On ; 1 x Fiber Optic Indicator: Green On; PoE Indicator: Green On												
Ethernet Port LED	Link (Green On), Active (Green Blinking)												
Power Input	4-Pin Removable Terminal Connector												
Power Requirement													
Input Voltage	48VDC(37~57)												
Reverse Polarity Protect	Yes												
Power Consumption	single POE network interface up to 90W, the total power consumption no more than 100W												
Mechanical													
Enclosure Material	Metal												
Dimension	100 mm x 86 mm x 30 mm (W x H x D)												
Ingress Protection	IP40												
Weight	420 g												
Installation method	DIN Rail-mounted/wall-mounted												
Environmental													
Operating Temperature & Humidity	-40°C ~ +80°C , 0%~95% Non- Condensing												
Storage Temperature	-40°C ~ +85°C												
MTBF	>300,000 hours												
Warranty	5 years												
Standard													
EMI	FCC Part 15 Subpart B class A, EN55022 class A												
EMS	<table border="0"> <tr> <td>IEC(EN)61000-4-2(ESD)</td> <td>IEC(EN)61000-4-3(RS)</td> </tr> <tr> <td>IEC(EN)61000-4-4(EFT)</td> <td>IEC(EN)61000-4-5(Surge)</td> </tr> <tr> <td>IEC(EN)61000-4-6(CS)</td> <td>IEC(EN)61000-4-8</td> </tr> <tr> <td>IEC 60068-2-27(Shock)</td> <td></td> </tr> <tr> <td>IEC 60068-2-32(Freefall)</td> <td></td> </tr> <tr> <td>IEC 60068-2-6(Vibration)</td> <td></td> </tr> </table>	IEC(EN)61000-4-2(ESD)	IEC(EN)61000-4-3(RS)	IEC(EN)61000-4-4(EFT)	IEC(EN)61000-4-5(Surge)	IEC(EN)61000-4-6(CS)	IEC(EN)61000-4-8	IEC 60068-2-27(Shock)		IEC 60068-2-32(Freefall)		IEC 60068-2-6(Vibration)	
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Approvals	CE、FCC、Rohs												



100Base FX		
Multi Mode	AVC-SFP-FX-SX (550m)	Wavelength: 850 nm
	AVC-SFP-FX-S (2km)	Wavelength: 1310 nm
Single Mode	AVC-SFP-FX-10 (10km)	Wavelength: 1310 nm
1000Base FX		
Multi Mode	AVC-SFP-SX (550m)	Wavelength: 850 nm
	AVC-SFP-LX-S (2km)	Wavelength: 1310 nm
Single Mode	AVC-SFP-LX-10 (10km)	Wavelength: 1310 nm

Installation dimensions

