

IT-IPMC-101GT-GS-POE

1-port 10/100/1000M Base-T (x) PoE + 1-port Gigabit SFP slot
Industrial PoE Media Converter

Features

1. Support 1 10/100/1000Base-TX port and 1 1000Base-X SFP port
2. Support IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3z, IEEE802.3ab, IEEE802.3af/at, store and forward
3. Compatible with both IEEE802.3at(30W) and IEEE802.3af(15.4W)
4. Ethernet port support 10/100/1000M self-adaption and PoE function
5. Support LFP (Link Fault Pass-Through)
6. Support huge increase in packet mode
7. DC48V power input, reverse connection protection
8. IP40 protect grade, high strength iron shell, DIN Rail installation
9. Industrial grade 4 design



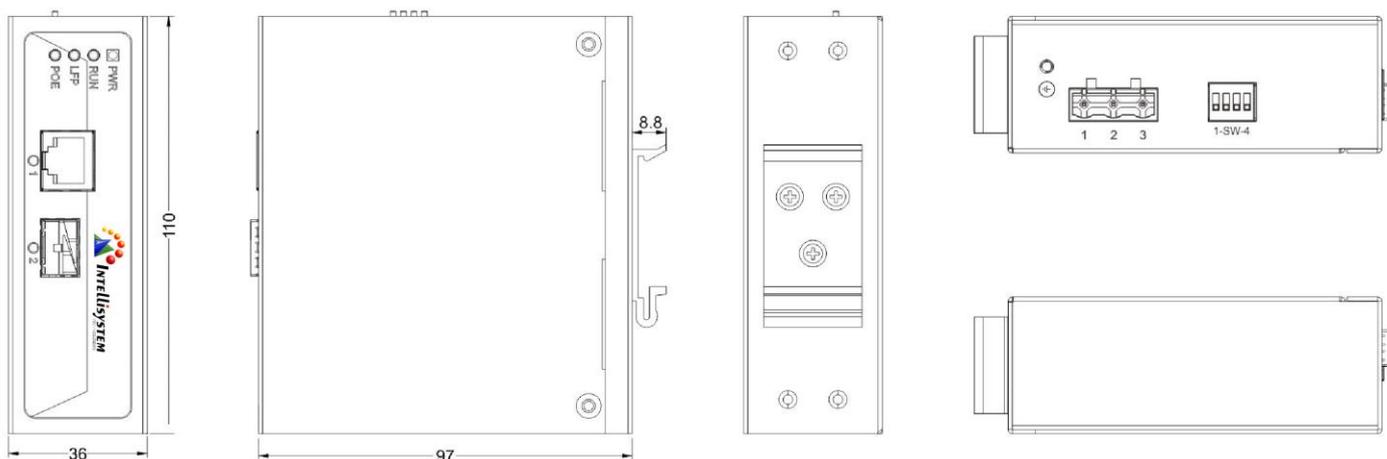
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Introduction

The IT-IPMC-101GT-GS-POE device is a kind of industrial Gigabit PoE media converter, it support 1 10Base-T/100Base-TX/1000 Base-TX port and 1 1000Base-X SFP port. These converters are classified as power source equipment (PSE), and when used in this way provide up to 30 watts to IEEE802.3af/at compliant powered devices (PDs), eliminating the need for additional wiring. It support LFP function, it is easy to check the network connection status, it also support CE, FCC standard, adopt industry standard design, IP40

protection, rugged high-strength metal case, power supply input(48VDC), -40 to 60°C working temperature. The converters support IEEE802.3/ IEEE802.3u/ IEEE802.3x/ IEEE802.3ab/ IEEE802.3z with 10/100/1000M, full/half-duplex, and MDI/MDI-X auto-sensing, providing a complete solution for your industrial Ethernet network.

Dimensions

Unit (mm)


Specifications

Technology

Standard: Support IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3z/ab, IEEE802.3af/at

Flow control: IEEE802.3x flow control, back press flow control

Exchange attributes

100M forward speed: 148810pps
1000M forward speed: 1488100pps
Transmit mode: store and forward
System exchange bandwidth: 12G
MAC address table: 8K
Memory: 1Kbits
Exchange delay time: < 10µs

Interfaces

RJ45 port: 10Base-T/100Base-TX/1000Base-TX Self-adaption, Half/full duplex and MDI/MDI-X auto detect

Gigabit SFP port: 1000Base-X SFP slot

POE Pin-out: 1/2(+), 3/6(-)

Transfer distance

Twisted cable: 100M (standard CAT5/CAT5e cable)
Multi-mode: 1310nm, 2Km
Single-mode: 1310nm, 20/40Km
1550nm, 60/80/100/120Km

LED indicators

Run indicator: Run
Interface indicator: Link (1~2)
Power supply indicator: PWR
LFP Alarm indicator: LFP

PoE indicator: POE

Power supply

Input Voltage: 48VDC (45~55VDC)
Type of input: 3 bits terminal block
No-load consumption: 2.3W@48VDC
Full-load consumption (full PD): 30W@48VDC

Working environment

Working temperature: -40~60°C
Storage temperature: -40~75°C
Relative Humidity: 5%~95 % (no condensation)

Mechanical Structure

Shell: IP40 protect grade, metal shell
Installation: DIN-Rail or Wall mounts
Weight: 390g
Size (W×H×D): 36mm×110mm×97mm

Industry Standards

EMI: FCC Part 15, CISPR (EN55022) class A
EMS: EN61000-4-2 (ESD)
EN61000-4-4 (EFT)
EN61000-4-5 (Surge)
Shock: IEC 60068-2-27
Free fall: IEC 60068-2-32
Vibration: IEC 60068-2-6

Certifications

CE, FCC, RoHS, UL508 (Pending)

Warranty: 5 years

Packing List

1. Industrial media Converter (plus terminal block) ×1
2. User manual × 1
3. Certificate of quality × 1
4. Warranty card × 1
5. DIN-Rail mounting kit × 1

1-port Gigabit Ethernet SFP modules

		Gigabit Ethernet													
Type		Multi Mode(MM)		Single Mode(SM)						Single Mode, single fiber(SS)					
Wavelength(nm)		1310	1310	1550						TX 1310nm, RX 1550nm ▲			TX 1490nm, RX 1550nm		
				20			40			TX 1550nm, RX 1310nm △			TX 1550nm, RX 1490nm		
Transmission Distance(km)		2	20	40	60	80	100	120	20	40 ▲	40 △	60	80	100	120
Coupled Fiber (µm)		50/125, 62.5/125		9/125						9/125					
Average Optical Output Power	Max.TX	-1	-3	3	0	3	3	5	-3	3	-1	0	3	3	5
	Min.TX	-9	-8	-2	-5	-2	-2	0	-8	-2	-6	-5	-2	-2	0
Receiver Sensitivity (dBm)		-19	-24	-24	-26	-27	-29	-31	-24	-24	-24	-25	-26	-29	-13
Saturation (dBm)		0	-3	-3	-3	-3	-3	-3	-1	-1	-1	-1	-1	-1	-1

Note: The actual communication distance depends on many factors, including connector loss, cable deployment, and the age of the cabling system. We recommend doing a link budget analysis and reserving a 3 dB margin for such factors.