3onedata
Reliable Connections



IPMC100 Series

DIN-Rail or Wall Mounting

2/3-port Full Gigabit Unmanaged Industrial PoE Media Converter

- Support 1 Gigabit fiber port or SFP slot optional, 1/2 Gigabit PoE copper ports optional
- Maximum power consumption of single port PoE is 30W
- PoE provides power supply to powered device via Ethernet, which can reduce the cable connection of powered device
- Support input voltage 48VDC
- Support -40~80℃ wide temperature operation

Industrial Grade

CONNECTING FOR A BETTER FUTURE

3onedata Co.,Ltd.

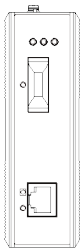
Introduction

IPMC100 series are 2/3-port full Gigabit unmanaged industrial PoE media converter. PoE power supply conforms to IEEE 802.3af/at protocol standard. This series include four types of products and provide Gigabit copper port, Gigabit fiber port, Gigabit SFP slot and Gigabit PoE copper port. It adopts DIN-Rail or wall mounting to meet the requirements of different application scenes.

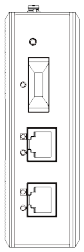
Design of DIP switch can realize the switching of PoE power supply modes of standard PD and non-standard PD, Flow Control, Jumbo Frame, RJ45 with the specified speed of 100M. Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in smart grid, rail transit, smart city, safety city, new energy, intelligent manufacturing and other industrial fields.

Dimension

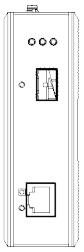
Unit:mm



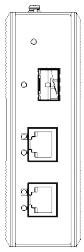
IPMC100-1GF-1GPOE



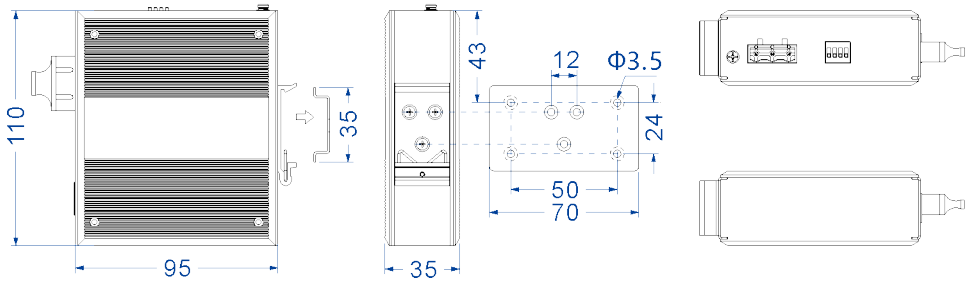
IPMC100-1GF-2GPOE



IPMC100-1GS-1GPOE



IPMC100-1GS-2GPOE



Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX

	IEEE 802.3z for 1000Base-X IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow Control IEEE 802.1af for PoE IEEE 802.3at for PoE+
PoE	Maximum power consumption of PoE port: 30W Power supply pin: V+, V+, V-, V- corresponding pin 1, 2, 3, 6
Interface	Copper port: 10/100/1000Base-T(X), RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotunning Fiber port: 1000Base-FX, SC/ST/FC optional SFP slot: 100/1000Base-SFP
LED Indicator	Running Indicator, Port Indicator, Power Supply Indicator, PoE Indicator, LFP indicator
Switch Property	Transmission mode: store and forward MAC address: 8K Packet buffer size: 1Mbit Backplane bandwidth: 14G Switch time delay: < 10μs
Power Requirement	12~48VDC (PoE 48VDC), 3-pin 7.62mm pitch terminal blocks
Power Consumption	
Environmental Limit	Operating temperature: -40~80℃ Storage temperature: -40~85℃ Relative humidity: 5%～95%（no condensation）
Physical Characteristic	Housing: IP40 protection, metal Installation: DIN-Rail or wall mounting Dimension (W x H x D): 36mm×110mm×97mm Weight: ≤400g
Industrial Standard	IEC 61000-4-2 (ESD), Level 3 ● Air discharge: ±8kV ● Contact discharge: ±6kV EN61000-4-4 (EFT), Level 3 IEC61000-4-5 (Surge), Level 3

Model	No-load (@48VDC)	Full-load (@48VDC)
IPMC100-1GF-1GPOE	1.44W	28.51W
IPMC100-1GF-2GPOE	5.14W	55.30W
IPMC100-1GS-1GPOE	1.49W	27.55W
IPMC100-1GS-2GPOE	2.11W	53.76W

	Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Ordering Information

Available Models	Gigabit Fiber Port	Gigabit SFP Slot	Gigabit PoE Copper Port	Power Supply Range
IPMC100-1GF-1GPOE	1	-	1	12~48VDC (PoE 48VDC)
IPMC100-1GF-2GPOE	1	-	2	
IPMC100-1GS-1GPOE	-	1	1	
IPMC100-1GS-2GPOE	-	1	2	

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Song Bai Road, Nanshan District, Shenzhen, 518108, China
TEL.: +86-755-26702668 ext 835 FAX: +86-755-26703485
E-mail: ics@3onedata.com
Website: www.3onedata.com

Please scan our QR code for more details

*Product pictures and technical data in this datasheet are only for reference. Updates are subject to change without prior notice. The final interpretation right is reserved by 3onedata.