Quick Installation Guide

Introduction

POE Media

CONVERTER

IPMC-111PB is a cost-effective solution for the conversion interface between 10/100Base-T(X) and 100Base-FX with SFP socket, it allows you to extend communication distance by optical fiber. IPMC-111PB supports MDI/MDIX auto detection, so you don't need to use crossover wires. IPMC-111PB also support Power over Ethernet, a system to transmit electrical power up to 30 watts, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. Each IPMC-111PB has 1x10/100Base-T(X) P.S.E. (Power Sourcing Equipment) port to provide power in a PoE setup. IPMC-111PB with wide operating temperature range from -40 ~ 70°C and accepts a wide voltage range from dual redundant 50~57 VDC power inputs, so it is suitable for harsh operating environments.

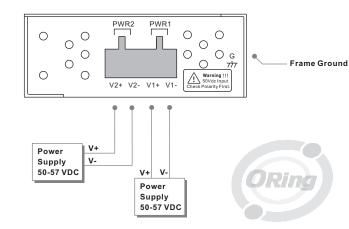
IPMC-111PB also supports the LFP (Link Fault Pass-through) feature. When one side of the link fails, the other side continues transmitting packets, and waiting for a response that never arrives from the disconnected side. Use the DIP-Switch to enable the LFP function, then IPMC-111PB will force the link to shutdown as soon as noticed that the other link has failed, to notice the administrator to react to the situation. Therefore, the IPMC-111PB is reliable media converter with PoE capability and can satisfy most demand of operating environment.



Features

- > Supports 1 port 10/100Base-T(X) auto-negotiation and auto-MDI/MDI-X
- > Supports Ethernet to fiber with SFP socket
- > Supports LFP (Link Fault Pass-through) function
- > Supports full/half duplex operation mode
- \triangleright P.S.E. fully compliant with IEEE802.3at standard, provide up to 30 Watts
- ightarrow Supports store and forward transmission
- \geq Provided DIP-Switch to set operation mode
- High reliability and rigid IP-30 housing
 DIN-Rail and wall-mount enabled
- > DIN-Rail and wall-mount enabled

Power Connection Guide



IPMC-111PB

Specifications

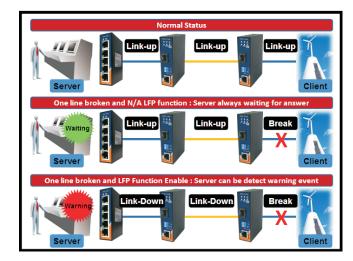
ORing PoE Media Converter Model	IPMC-111PB	
Physical Ports		
10/100 Base-T(X) with P.S.E. Port in RJ45 Auto MDI/MDIX	1	
Technology		
Ethernet standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3x for Flow control IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.)	
Processing	Store-and-Forward	
DIP-Switch setting	DIP-Switch 1 for LFP mode selection : (ON) enable / (OFF) disable DIP-Switch 2 for Ethernet speed selection : (ON)10Mbps / (OFF) 10/100Mbps Auto-negotiate DIP-Switch 3 for Ethernet full/half duplex selection : (ON) Half-duplex / (OFF) Full/Half-Duplex Auto-negotiate DIP-Switch 4 for fiber full/half duplex selection : (ON) Half-Duplex / (OFF) Full-Duple	
LED Indicators		
Power indicator	Green : Power LED x 2	
10/100Base-T(X) RJ 45 port indicator	Green on RJ45 for port Link/Act -(ON) Link up / (Blinking) Acting / (OFF) Link down Green for port duplex indicator- (ON) Full-Duplex / (OFF) Half-Duplex	
100Base-FX fiber port indicator	Green for fiber port Link/Act - (ON) Link up / (Blinking) Acting / (OFF) Link down Green for fiber port duplex indicator- (ON) Full-Duplex/ (OFF) Half-Duplex	
LFP statue indicator	Amber LED - (ON) LFP function fail / (OFF) LFP function disable	
PoE indicator	Green for P.S.E. indicator	
Power		
Input power	Dual 50 VDC voltage power input at 4 pin terminal block	
Power consumption(Typ.)	31.2 Watts (P.S.E. output included)	
Overload current protection	Present	
Reverse polarity protection	Present	
Physical Characteristic		
Enclosure	IP-30	
Dimension (W x D x H)	26.1 (W) x 70 (D) x 95 (H)mm (1.03 x 2.76 x 3.74 inch)	
Weight (g)	210 g	
Environmental		
Storage Temperature	-40 to 85°C (-40 to 185°F)	
Operating Temperature	-40 to 70°C (-40 to 158°F)	
Operating Humidity	5% to 95% Non-condensing	
Regulatory Approvals		
ЕМІ	FCC Part 15, CISPR (EN55022) class A	
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11	
Shock	IEC60068-2-27	
Free Fall	IEC60068-2-32	
Vibration	IEC60068-2-6	
Safety	EN60950-1	
Warranty	5 years	

Industrial PoE Media Converter

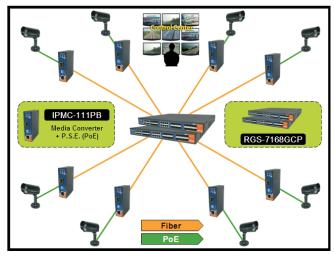
Connections of Media converter and LFP

function

Connections with LFP function



Connections of Media Converter





Quick Installation Guide

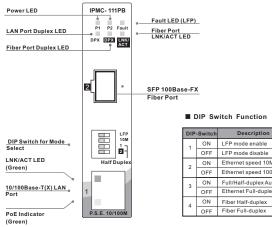


Installation • Din-Rail Install Step Wall-mounted Install Step X Front Panel

POE Media

CONVERTER

INDUSTRIAL





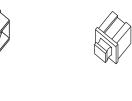
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Accessory



IPMC-111PB

2 Dust Cover (RJ-45)



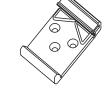
(4) Screw (M3 X3) (5) Wall-mounted kit



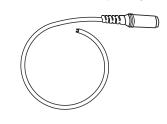
®QIG

6 25mm DIN-Rail kit

③ Dust Cover (SFP)



⑦ Power Cable with power jack

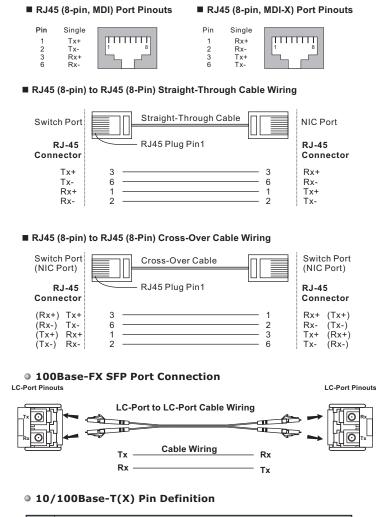


Packing list

Model name	Model Description	Accessory
IPMC-111PB	Industrial mini type Ethernet to fiber media converter with 1x10/100Base-T(X) P.S.E. and 1x100Base-FX, SFP socket	⊙x 1, ⊘x 1, ⊙x 1, ⊙x 8, ⊙x 2, ⊙x 1, ⊙x 1, ⊚x 1

Communication Connections

• 10/100Base-T(X) Ethernet Port Connection



	RJ-45 Output (Data and Power)		
Pin	Symbol	Description	
1	Rx+ (Vdc+)	Data Receive and Feeding power(+)	
2	Rx-(Vdc+)	Data Receive and Feeding power(+)	
3	Tx+ (Vdc-)	Data Receive and Feeding power(-)	
4	NC	Not Connected	
5	NC	Not Connected	
6	Tx- (Vdc-)	Data Receive and Feeding power(-)	
7	NC	Not Connected	
8	NC	Not Connected	

Note: pins 3 and 6 (-Vdc) should not be shorted to ground