IPMC-111PB

PoE Ethernet to Fiber Media Converter

❯ *Industrial mini type Ethernet to fiber PoE media converter with 1x10/100Base-T(X) P.S.E. and 1x100Base-FX, SFP socket*
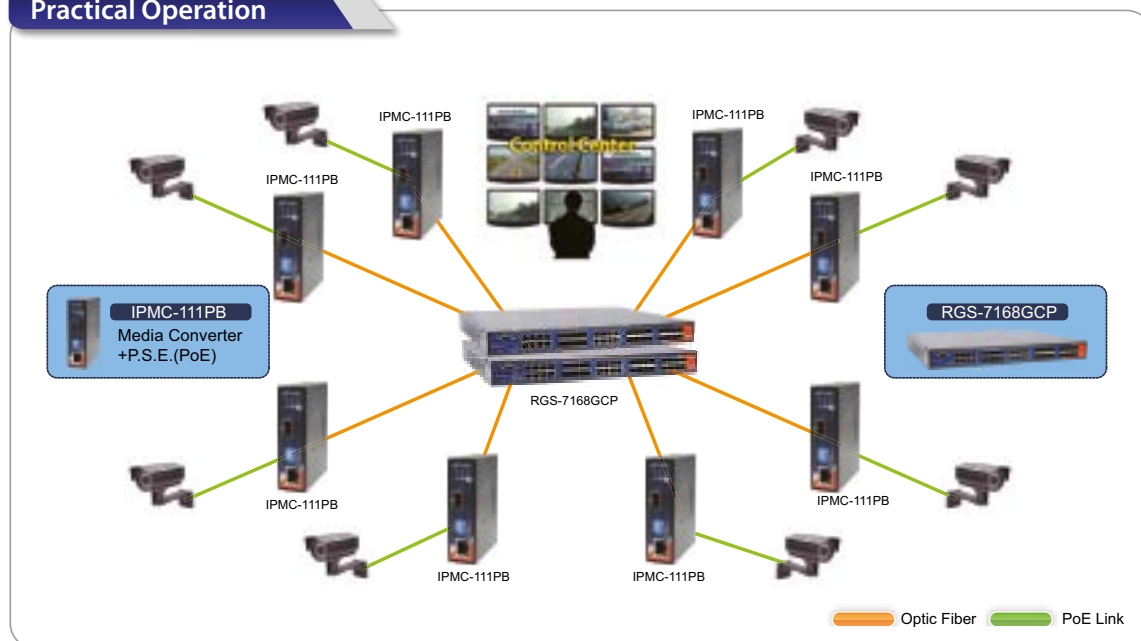
Features

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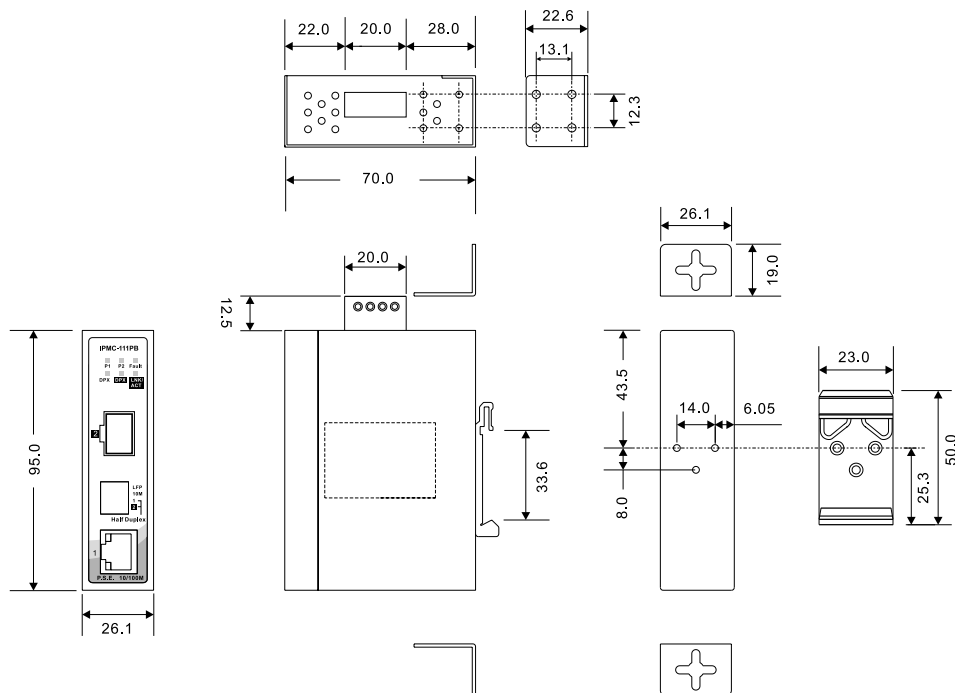- DIN-Rail and wall mounting enabled

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Irrtum und Änderung vorbehalten.
www.ics-d.de

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Practical Operation

IPMC-111PB
Media Converter
+P.S.E.(PoE)

RGS-7168GCP

RGS-7168GCP

Optic Fiber   PoE Link

Connections of the media converters

Dimensions

(Unit=mm)

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Connector and Pin Definition

10/100Base-T(X) P.S.E. RJ-45 port

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

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

Specifications

ORing Media Converter Model	IPMC-111PB
Physical Ports	
10/100 Base-T(X) with P.S.E. Port in RJ45 Auto MDI/MDIX	**1**
100/1000Base-X SFP port	**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
LED indicators	
Power indicator	Green : Power LED x 2 (ON : power input on-line / (OFF) power input off-line
10/100Base-T(X) RJ45 port indicator	Green for port Link/Act — (ON) Link up / (Blinking) Acting / (OFF) 10Mbps or 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 / (Flash) Acting / (OFF) Link down Green for fiber port duplex indicator — (ON) Full-Duplex / (OFF) Half-Duplex
LFP state indicator	Amber LED — (ON) LFP function happen / (OFF) LFP function disable
PoE indicator	Green for P.S.E. indicator
DIP Switch for function	
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-Duplex
Power	
Input power	Dual 50~57 VDC voltage power inputs at 4-pin terminal block
Power consumption (Typ.)	3 Watts (Not include P.D's device)
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)	228g
Environmental	

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Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 75°C (-40 to 158°F)
Operating Humidity	5% to 95% Non-condensing
Regulatory approvals	
EMI	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
MTBF	2130802hr
Warranty	5 years

H/W version: 2

Ordering Information

IPMC-1 A B C B

Code Definition	10/100Base-T(X) Port Number	Fiber Port Number	Fiber Port Type
Option	- **1** : 1 port	- **1**: 1 port	- **P**: 100Base-FX SFP

Available Model	Model Name	Description
	IPMC-111PB	Industrial mini type Ethernet to fiber PoE+ media converter with 1x10/100Base-T(X) P.S.E. and 1x100Base-FX, SFP socket

Packing List
- IPMC-111PB x 1
- Wall-Mount Kit x 1
- Quick Installation Guide x 1
- Din-Rail Kit x 1

Optional Accessories (Can be purchased separately)
- SFP100 series : 100Mbps SFP optical transceiver
- DR/SDR/DRP series DIN-Rail power supply