



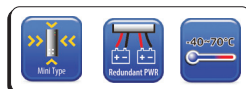
Quick Installation Guide

IGMC-111GPB

Industrial Gigabit Ethernet to Fiber Media Converter

Introduction

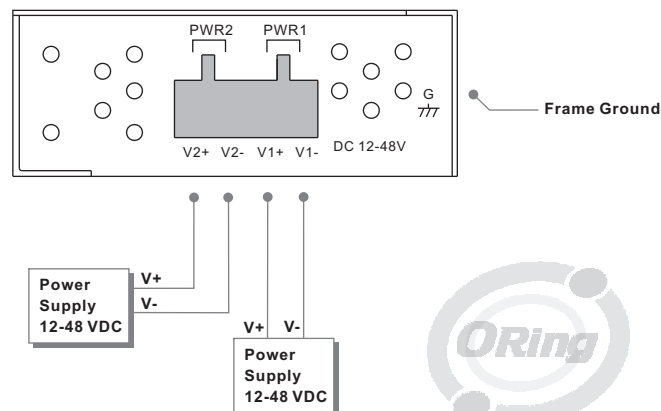
IGMC-111GPB is a cost-effective solution for the conversion between 100/1000Base-T(X) and 100/1000Base-X interface, it allows you to extend communication distance by optical fiber. IGMC-111GPB supports MDI/MDIX auto detection, so you don't need to use crossover wires. IGMC-111GPB with wide operating temperature range from -40 ~ 70°C and accepts a wide voltage range from dual 12 ~ 48 VDC power inputs, so it is suitable for harsh operating environments. Therefore, the IGMC-111GPB is reliable media converter and can satisfy most demand of operating environment.



Features

- > Supports 1 port 100/1000Base-T(X) auto-negotiation and auto-MDI/MDI-X
- > Support Ethernet to SFP port signal conversion
- > Provided DIP-Switch to set operation speed of SFP port
- > High reliability and rigid IP-30 housing
- > DIN-Rail and wall-mount enabled

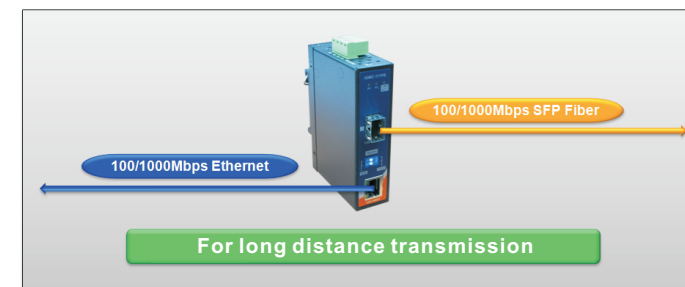
Power Connection Guide



Specifications

ORing Media Converter Model	IGMC-111GPB
Physical Ports	
100/1000 Base-T(X) Port in RJ45 Auto MDI/MDIX	1
100/1000Base-X SFP port	1
Technology	
Ethernet standards	IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3x for Flow control IEEE 802.3 ab for 1000Base-T IEEE 802.3 z for 1000Base-X
DIP-Switch 1/2	DIP-Switch 1 (ON) and DIP-Switch 2 (ON) : SFP speed setting to 100Mbps DIP-Switch 1 (OFF) and DIP-Switch 2 (OFF) : SFP speed setting to 1000Mbps
LED Indicators	
Power indicator	Green: Power LED x 2. (ON) power input on-line / (OFF) power input off-line
100/1000Base-T(X) RJ45 port indicator	LED for Link/Act and Speed indicator : Green on only : 1000Mbps Link/Act-(ON) Link up / (Flash) Acting / (OFF) Link down Green and Amber on : 100Mbps Link/Act-(ON) Link up / (Flash) Acting / (OFF) Link down *Note: If amber on only : Link up at 10Mbps which is not valid mode
100/1000Base-F(X) fiber port indicator	Green for fiber port Link/Act - (ON) Link up / (Flash) Acting / (OFF) Link down
Power	
Input power	Dual 12~48 VDC power input at 4 pin terminal block
Power consumption(Typ.)	3.6 Watts
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)	190 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	
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
Warranty	5 years

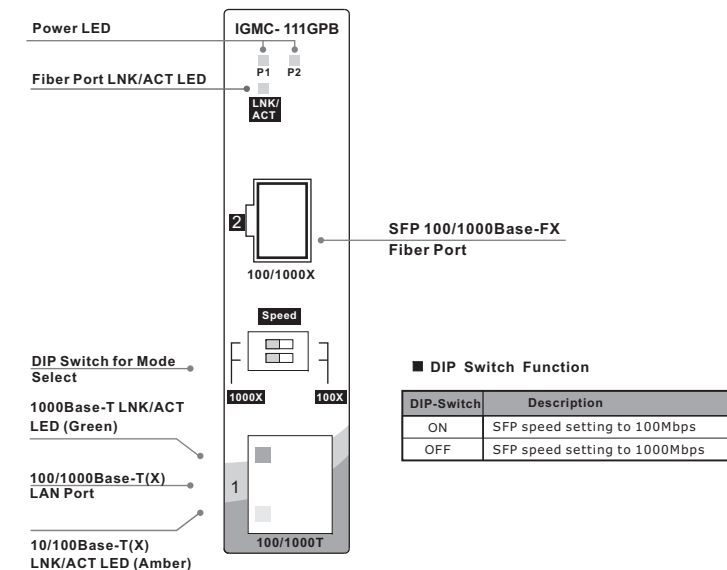
Connections of Media converter



Working Status

Ethernet Port Status	SFP Fiber Port Status	Working status
100Mbps	100Mbps	Valid
100Mbps	1000Mbps	Invalid
1000Mbps	1000Mbps	Valid
1000Mbps	100Mbps	Invalid

Front Panel





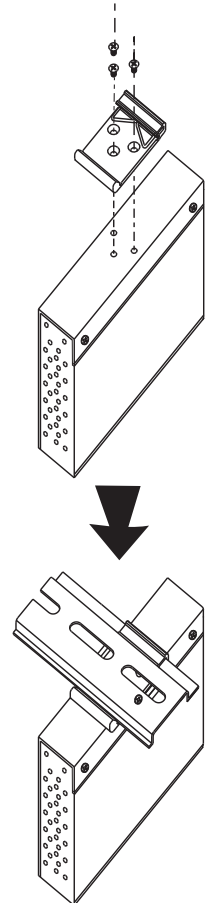
Quick Installation Guide

IGMC-111GPB

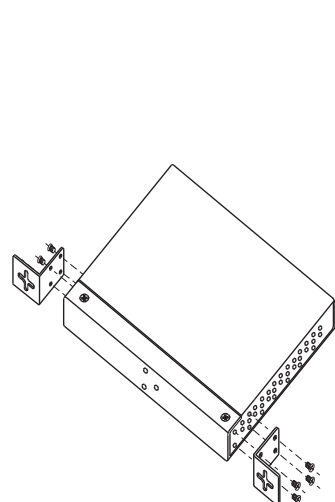
Industrial Gigabit Ethernet to fiber Media Converter

Installation

Din-Rail Install Step

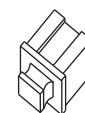
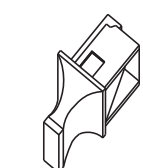
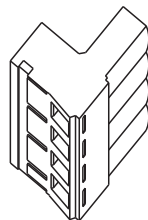


Wall-mounted Install Step



Accessory

- ① 4-Pin Terminal block
- ② Dust Cover (RJ-45)
- ③ Dust Cover (SFP)



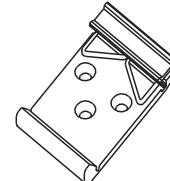
- ④ Screw (M3 X3)



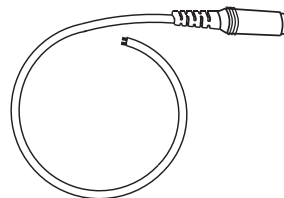
- ⑤ Wall-mounted kit



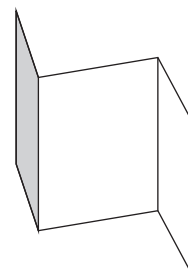
- ⑥ 25mm DIN-Rail kit



- ⑦ Power Cable with power jack



- ⑧ QIG

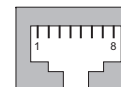


Communication Connections

100Base-TX Ethernet Port Connection

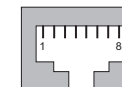
RJ45 (8-pin, MDI) Port Pinouts

Pin	Single
1	Tx+
2	Tx-
3	Rx+
6	Rx-

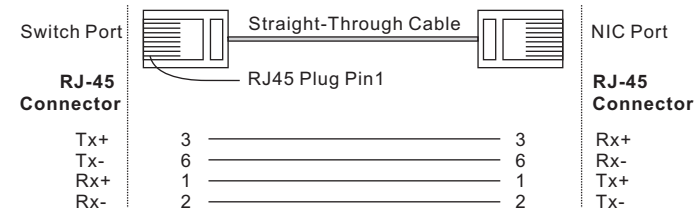


RJ45 (8-pin, MDI-X) Port Pinouts

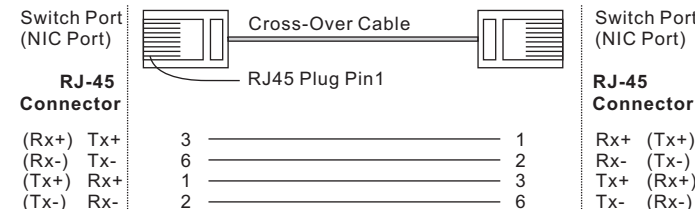
Pin	Single
1	Rx+
2	Rx-
3	Tx+
6	Tx-



RJ45 (8-pin) to RJ45 (8-Pin) Straight-Through Cable Wiring



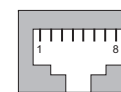
RJ45 (8-pin) to RJ45 (8-Pin) Cross-Over Cable Wiring



1000Base-T Ethernet Connection

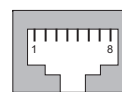
RJ45 (8-pin, MDI) Port Pinouts

Pin	MDI
1	BI_DA+
2	BI_DA-
3	BI_DB+
4	BI_DC+
5	BI_DC-
6	BI_DB-
7	BI_DD+
8	BI_DD-

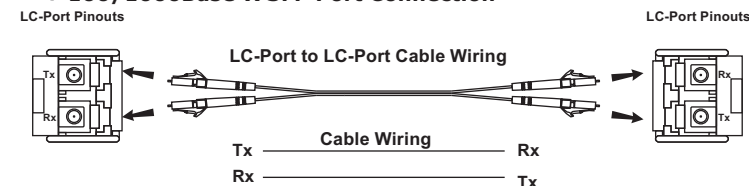


RJ45 (8-pin, MDI-X) Port Pinouts

Pin	MDI-X
1	BI_DB+
2	BI_DB-
3	BI_DA+
4	BI_DD+
5	BI_DD-
6	BI_DA-
7	BI_DC+
8	BI_DC-



100/1000Base-X SFP Port Connection



Packing list

Model name	Model Description	Accessory
IGMC-111GPB	Industrial mini type Gigabit Ethernet to fiber media converter with 1x100/1000Base-T(X) and 1x100/1000Base-X, SFP socket	①X1, ②X1, ③X1, ④X8, ⑤X2, ⑥X1, ⑦X1, ⑧X1



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TEL: +886-2-2218-1066 Website: www.oring-networking.com
FAX: +886-2-2218-1014 E-mail: support@oring-networking.com