

IGMC-1011GF/1011GP

>> Industrial Slim Type Gigabit Ethernet media converter

- Supports auto-negotiation and auto-MDI/MDI-X in 10/100/1000 Base-T(X) ports
- Support 1000Base-X Fiber or SFP port
- Jumbo Frame supports to 10240 Bytes
- Redundant power inputs with reverse polarity protection

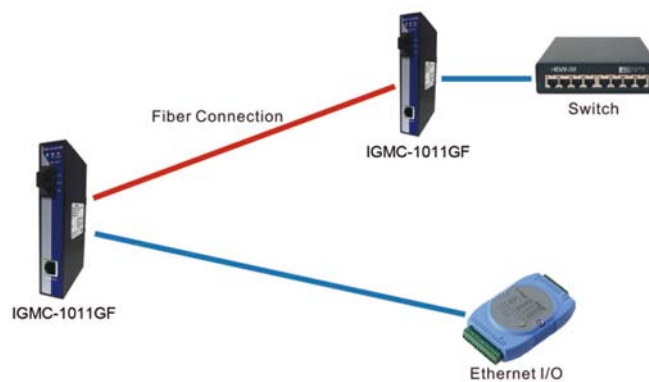


> Features

- Supports 1 ports 10/100/1000Base-T(X) auto-negotiation and auto-MDI/MDI-X
- Supports 1 port 1000Base-X multi-mode/single-mode or SFP port
- Supports Jumbo Frame up to 10240 Bytes
- Wide operating temperature range from -40 °C to 70°C
- Relay output to carry capacity of 1A at 24 VDC
- Rigid IP-30 housing design
- DIN-Rail and panel mounting enabled

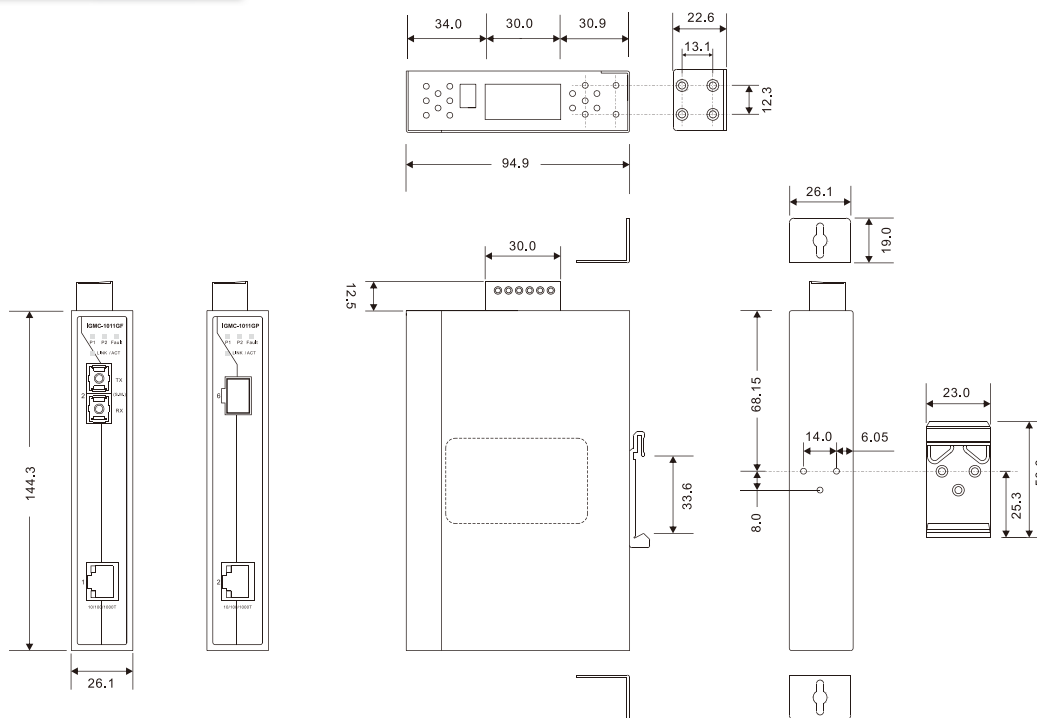
> Introduction

IGMC-1011GF/IGMC-1011GP are industrial gigabit media converters provide media conversion between 10/100/1000Base-T(X) and 1000Base-X. IGMC-1011GF/IGMC-1011GP series are rigid IP-30 housing design and supporting an operating temperature of -40 to 70°C. Therefore, the IGMC-1011GF/IGMC-1011GP is reliable media converter and can satisfy most demand of operating environment.



Connections of Media Converter

> Dimension



(Unit=mm)

> Specifications

ORing Media Converter Model	IGMC-1011GF-MM	IGMC-1011GF-SS	IGMC-1011GP
Physical Ports			
10/100/1000Base-T(X) Ports in RJ45 Auto MDI/MDIX	1	1	1
1000Base-FX Multi-mode ports (550M, 850nm, SC connector)	1	-	-
1000Base-FX Single-mode ports (10KM, 1310nm, SC connector)	-	1	-
1000Base-X SFP port	-	-	1
Technology			
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-T(X) IEEE 802.3ab for 1000Base-T IEEE802.3z for 1000Base-X		
Jumbo Frame	10240 Bytes		
LED Indicators			
Power / Indicator	Green : Power LED x 2		
Fault Indicator	Amber : Indicate power failure		
10/100/1000Base-T(X) RJ45 Port Indicator	Green for port Link/Act. Amber for 100Mbps indicator		
1000Base-X Port Indicator	Green for port Link/Act		
Fault contact			
Relay	Relay output to carry capacity of 1A at 24 VDC		

Dip Switch	Relay output function enable / disable by dip switch		
Power			
Input Power	Dual 12~ 48 VDC power inputs in 6-pin terminal block		
Power Consumption (Typ.)	3.5 Watts		
Overload Current Protection	Present		
Reverse Polarity Protection	Present on terminal block		
Physical Characteristic			
Enclosure	IP-30		
Dimension (W x D x H)	26.1(W) x 94.9(D) x 144.3(H) mm (1.03x3.74x5.68 inch.)		
Weight (g)	400 g	400 g	380g
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		
Warranty	5 years		

> Ordering Information

IGMC-1 **AA** **B** **CC** - **DD** - **EE**

Code Definition	10/100/1000Base-T(X) Port Numbe	1000Base-X Fiber Port Number	Fiber Port Type	Fiber Optical Mode	Fiber Optical Connector
Option	- 01 : 1 port	- 1 : 1 port	- GF : 1000Base-X Fiber - GP : 1000Base-X SFP	- MM : Multi-mode - SS : Single-mode	- SC : SC connector

	Model Name	Description	Operating Temperature
Available Model	IGMC-1011GF-MM-SC	Industrial Gigabit media converter with 1x10/100/1000Base-T(X) and 1x1000Base-SX , multi-mode	Regular model (-40 to 70°C)
	IGMC-1011GF-SS-SC	Industrial Gigabit media converter with 1x10/100/1000Base-T(X) and 1x1000Base-LX , single-mode	
	IGMC-1011GP	Industrial Gigabit media converter with 1x 10/100/1000Base-T(X) and 1x1000Base-X SFP	

SFP1G LC Series

1-port Gigabit Ethernet SFP modules

Accessories Web Link ~ http://www.oring-networking.com/Industrial_Accessories.html

> Specifications

Spec	Model Name							
	SFP1G-SX/-I	SFP1G-MLX/-I	SFP1G-LX10/-I	SFP1G-LX20/-I	SFP1G-LHX30/-I	SFP1G-LHX40/-I	SFP1G-XD50/-I	SFP1G-ZX70/-I
Fiber mode	Multi-mode	Multi-mode	Single-mode	Single-mode	Single-mode	Single-mode	Single-mode	Single-mode
Typical Distance	550 m	62.5/125 : 2km 50/125 : 1km	10 km	20 km	30 km	40 km	50 km	70 km
Operating Temperature	0~70℃ -20~85℃ (-I model)	0~70℃ -40~85℃ (-I model)	0~70℃ -40~85℃ (-I model)	0~70℃ -40~85℃ (-I model)	0~70℃ -40~85℃ (-I model)	0~70℃ -40~85℃ (-I model)	0~70℃ -40~85℃ (-I model)	0~70℃ -40~85℃ (-I model)
Output Optical Power 9/125 μm fiber (Max. TX)	-	-	-3 dBm	-2 dBm	1 dBm	1 dBm	1 dBm	5 dBm
Output Optical Power 9/125 μm fiber (Min. TX)	-	-	-9.5 dBm	-8 dBm	-4 dBm	-4 dBm	-4 dBm	0 dBm
Output Optical Power 62.5/125 μm fiber (Max. TX)	-4 dBm	-1 dBm	-	-	-	-	-	-
Output Optical Power 62.5/125 μm fiber (Min. TX)	-9.5 dBm	-9 dBm	-	-	-	-	-	-
Output Optical Power 50/125 μm fiber (Max. TX)	-4 dBm	-1 dBm	-	-	-	-	-	-
Output Optical Power 50/125 μm fiber (Min. TX)	-9.5 dBm	-9 dBm	-	-	-	-	-	-
Wavelength	850 nm	1310 nm	1310 nm	1310 nm	1310 nm	1310 nm	1550 nm	1550 nm
Optical Input Power-minimum (Sensitivity)	-18 dBm	-19 dBm	-20 dBm	-23 dBm	-24 dBm	-24 dBm	-24 dBm	-24 dBm
Loss of Signal-Asserted	-18 dBm	-19 dBm	-20 dBm	-23 dBm	-24 dBm	-24 dBm	-24 dBm	-24 dBm
Loss of Signal-Deasserted	-35 dBm	-35 dBm	-35 dBm	-35 dBm	-35 dBm	-35 dBm	-35 dBm	-35 dBm

> Ordering Information

Available Model	Model Name	Description	Operating Temperature
		SFP1G-SX	1Gbps SFP optical Transceiver, Multi-mode / 550m, 850nm
	SFP1G-SX-I	1Gbps SFP optical Transceiver, Multi-mode / 550m, 850nm, Industrial Grade	-20 ~ 85℃
	SFP1G-MLX	1Gbps SFP optical Transceiver, Multi-mode / 2km, 1310nm	0 ~ 70℃
	SFP1G-MLX-I	1Gbps SFP optical Transceiver, Multi-mode / 2km, 1310nm, Industrial Grade	-40 ~ 85℃
	SFP1G-LX10	1Gbps SFP optical Transceiver, Single-mode / 10km, 1310nm	0 ~ 70℃
	SFP1G-LX10-I	1Gbps SFP optical Transceiver, Single-mode / 10km, 1310nm, Industrial Grade	-40 ~ 85℃
	SFP1G-LX20	1Gbps SFP optical Transceiver, Single-mode / 20km, 1310nm	0 ~ 70℃
	SFP1G-LX20-I	1Gbps SFP optical Transceiver, Single-mode / 20km, 1310nm, Industrial Grade	-40 ~ 85℃
	SFP1G-LHX30	1Gbps SFP optical Transceiver, Single-mode / 30km, 1310nm	0 ~ 70℃
	SFP1G-LHX30-I	1Gbps SFP optical Transceiver, Single-mode / 30km, 1310nm, Industrial Grade	-40 ~ 85℃
	SFP1G-LHX40	1Gbps SFP optical Transceiver, Single-mode / 40km, 1310nm	0 ~ 70℃
	SFP1G-LHX40-I	1Gbps SFP optical Transceiver, Single-mode / 40km, 1310nm, Industrial Grade	-40 ~ 85℃
	SFP1G-XD50	1Gbps SFP optical Transceiver, Single-mode / 50km, 1550nm	0 ~ 70℃
	SFP1G-XD50-I	1Gbps SFP optical Transceiver, Single-mode / 50km, 1550nm, Industrial Grade	-40 ~ 85℃
	SFP1G-ZX70	1Gbps SFP optical Transceiver, Single-mode / 70km, 1550nm	0 ~ 70℃
	SFP1G-ZX70-I	1Gbps SFP optical Transceiver, Single-mode / 70km, 1550nm, Industrial Grade	-40 ~ 85℃

SFP1G-BIDI LC Series

1-port Gigabit Ethernet BIDI-SFP modules

Accessories Web Link ~ http://www.oring-networking.com/Industrial_Accessories.html

> Specifications

Spec	Model Name							
	SFP1GB3 -LX10/-I	SFP1GB5 -LX10/-I	SFP1GB3 -LX20/-I	SFP1GB5 -LX20/-I	SFP1GB3 -LX40/-I	SFP1GB5 -LX40/-I	SFP1GB3 -LX60/-I	SFP1GB5 -LX60/-I
Fiber mode	Single-mode	Single-mode	Single-mode	Single-mode	Single-mode	Single-mode	Single-mode	Single-mode
Typical Distance	10 m	10 m	20 km	20 km	40 km	40 km	60 km	60 km
Operating Temperature	0~70°C -40~85°C (-I model)	0~70°C -40~85°C (-I model)	0~70°C -40~85°C (-I model)	0~70°C -40~85°C (-I model)	0~70°C -40~85°C (-I model)	0~70°C -40~85°C (-I model)	0~70°C -40~85°C (-I model)	0~70°C -40~85°C (-I model)
Output Optical Power 9/125 µm fiber (Max. TX)	-3 dBm	-3 dBm	-2 dBm	-2 dBm	2 dBm	2 dBm	5 dBm	4 dBm
Output Optical Power 9/125 µm fiber (Min. TX)	-9 dBm	-9 dBm	-8 dBm	-8 dBm	-3 dBm	-3 dBm	0 dBm	-2 dBm
Wavelength	TX : 1310 nm RX : 1550 nm	TX : 1550 nm RX : 1310 nm	TX : 1310 nm RX : 1550 nm	TX : 1550 nm RX : 1310 nm	TX : 1310 nm RX : 1550 nm	TX : 1550 nm RX : 1310 nm	TX : 1310 nm RX : 1550 nm	TX : 1550 nm RX : 1310 nm
Optical Input Power-minimum (Sensitivity)	-21 dBm	-21 dBm	-23 dBm	-23 dBm	-23 dBm	-23 dBm	-24 dBm	-25 dBm
Loss of Signal-Asserted	-21 dBm	-21 dBm	-23 dBm	-23 dBm	-23 dBm	-23 dBm	-24 dBm	-25 dBm
Loss of Signal-Deasserted	-35 dBm	-35 dBm	-35 dBm	-35 dBm	-35 dBm	-35 dBm	-35 dBm	-35 dBm

> Ordering Information

Available Model	Model Name	Description	Operating Temperature
		SFP1GB3-LX10-I	1Gbps SFP optical Transceiver, Single-mode BIDI / 10KM, TX-1310nm, RX-1550nm
	SFP1GB5-LX10	1Gbps SFP optical Transceiver, Single-mode BIDI / 10KM, TX-1310nm, RX-1550nm, Industrial Grade	-40 ~ 85°C
	SFP1GB5-LX10-I	1Gbps SFP optical Transceiver, Single-mode BIDI / 10KM, TX-1550nm, RX-1310nm	0 ~ 70°C
	SFP1GB3-LX20	1Gbps SFP optical Transceiver, Single-mode BIDI / 10KM, TX-1550nm, RX-1310nm, Industrial Grade	-40 ~ 85°C
	SFP1GB3-LX20-I	1Gbps SFP optical Transceiver, Single-mode BIDI / 20KM, TX-1310nm, RX-1550nm	0 ~ 70°C
	SFP1GB5-LX20	1Gbps SFP optical Transceiver, Single-mode BIDI / 20KM, TX-1310nm, RX-1550nm, Industrial Grade	-40 ~ 85°C
	SFP1GB5-LX20-I	1Gbps SFP optical Transceiver, Single-mode BIDI / 20KM, TX-1550nm, RX-1310nm	0 ~ 70°C
	SFP1GB3-LX40	1Gbps SFP optical Transceiver, Single-mode BIDI / 20KM, TX-1550nm, RX-1310nm, Industrial Grade	-40 ~ 85°C
	SFP1GB3-LX40-I	1Gbps SFP optical Transceiver, Single-mode BIDI / 40KM, TX-1310nm, RX-1550nm	0 ~ 70°C
	SFP1GB5-LX40	1Gbps SFP optical Transceiver, Single-mode BIDI / 40KM, TX-1310nm, RX-1550nm, Industrial Grade	-40 ~ 85°C
	SFP1GB5-LX40-I	1Gbps SFP optical Transceiver, Single-mode BIDI / 40KM, TX-1550nm, RX-1310nm	0 ~ 70°C
	SFP1GB3-LX60	1Gbps SFP optical Transceiver, Single-mode BIDI / 40KM, TX-1550nm, RX-1310nm, Industrial Grade	-40 ~ 85°C
	SFP1GB3-LX60-I	1Gbps SFP optical Transceiver, Single-mode BIDI / 60KM, TX-1310nm, RX-1550nm	0 ~ 70°C
	SFP1GB5-LX60	1Gbps SFP optical Transceiver, Single-mode BIDI / 60KM, TX-1310nm, RX-1550nm, Industrial Grade	-40 ~ 85°C
	SFP1GB5-LX60-I	1Gbps SFP optical Transceiver, Single-mode BIDI / 60KM, TX-1550nm, RX-1310nm	0 ~ 70°C
	SFP1G-ZX70-I	1Gbps SFP optical Transceiver, Single-mode BIDI / 60KM, TX-1550nm, RX-1310nm, Industrial Grade	-40 ~ 85°C