

# IGMC-1011GF/1011GP



IGMC-1011GF



IGMC-1011GP

## ➤ Industrial slim type Gigabit Ethernet to fiber media converter

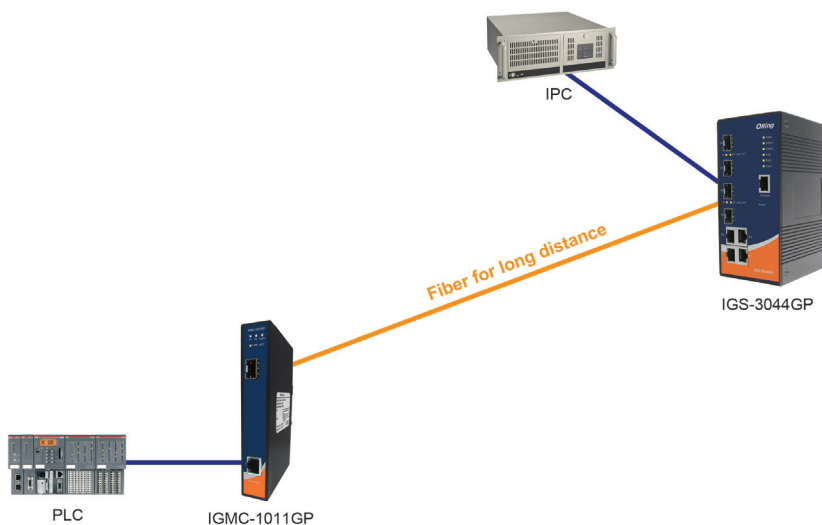
### Features

- Support 1 port 10/100/1000Base-T(X) auto-negotiation and auto-MDI/MDI-X
- Support 1 port 1000Base-X multi-mode/single-mode or SFP port
- Support Jumbo Frame up to 10240 Bytes
- Support store-and-forward transmission
- Relay output to carry capacity of 1A at 24 VDC
- Rigid IP-30 housing design
- DIN-Rail and wall mounting enabled



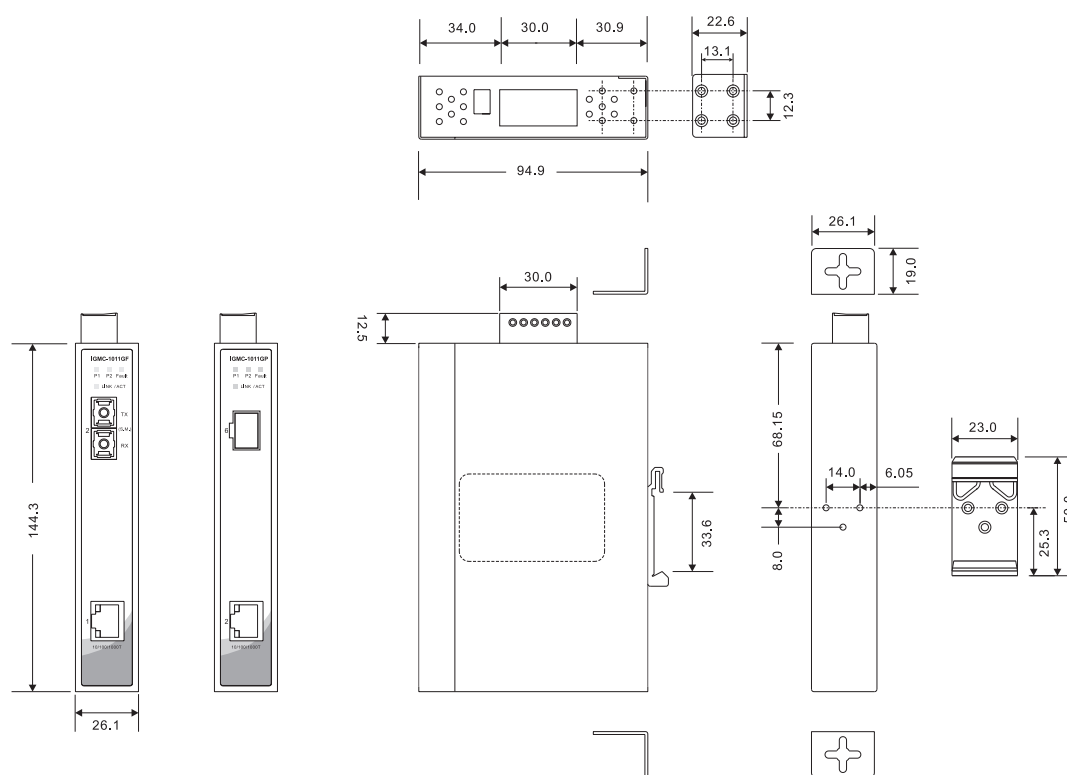
### Introduction

IGMC-1011GF/IGMC-1011GP series 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 series are reliable media converters and can satisfy most demand of operating environment.



Connections of Media Converter

## Dimensions



(Unit=mm)

## Specifications

| ORing Media Converter Model                      |                                        | IGMC-1011GF-MM-SC                                                                                                  | IGMC-1011GF-SS-SC | IGMC-1011GP |
|--------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------|-------------|
| <b>Physical Ports</b>                            |                                        |                                                                                                                    |                   |             |
| 10/100/1000Base-T(X) Ports in RJ45 Auto MDI/MDIX |                                        | 1                                                                                                                  | 1                 | 1           |
| Fiber Ports Specifications                       | Fiber Ports Number                     | 1                                                                                                                  | 1                 | -           |
|                                                  | Fiber Ports standard                   | 1000Base-SX                                                                                                        | 1000Base-LX       | -           |
|                                                  | Fiber Mode                             | Multi-mode                                                                                                         | Single-mode       | -           |
|                                                  | Fiber Diameter (μm)                    | 62.5/125 μm<br>50/125 μm                                                                                           | 9/125 μm          | -           |
|                                                  | Fiber Optical Connector                | SC                                                                                                                 | SC                | -           |
|                                                  | Typical Distance (km)                  | 550 m                                                                                                              | 10 km             | -           |
|                                                  | Wavelength (nm)                        | 850 nm                                                                                                             | 1310 nm           | -           |
|                                                  | Max. Output Optical Power (dBm)        | -4 dBm                                                                                                             | -3 dBm            | -           |
|                                                  | Min. Output Optical Power (dBm)        | -9.5 dBm                                                                                                           | -9.5 dBm          | -           |
|                                                  | Max. Input Optical Power (Saturation)  | 0 dBm                                                                                                              | -3 dBm            | -           |
|                                                  | Min. Input Optical Power (Sensitivity) | -18 dBm                                                                                                            | -20 dBm           | -           |
|                                                  | Link Budget (dB)                       | 8.5 dB                                                                                                             | 10.5 dB           | -           |
| 1000Base-X SFP port                              |                                        | -                                                                                                                  | -                 | 1           |
| <b>Technology</b>                                |                                        |                                                                                                                    |                   |             |
| Ethernet Standards                               |                                        | IEEE 802.3 for 10Base-T<br>IEEE 802.3u for 100Base-TX<br>IEEE 802.3ab for 1000Base-T<br>IEEE 802.3z 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 on 6-pin terminal block                                                                     |         |         |
| Power Consumption (Typ.)                      | 3.5 Watts                                                                                                                |         |         |
| Overload Current Protection                   | Present                                                                                                                  |         |         |
| Reverse Polarity Protection                   | Present                                                                                                                  |         |         |
| Physical Characteristics                      |                                                                                                                          |         |         |
| Enclosure                                     | IP-30                                                                                                                    |         |         |
| Dimensions (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                                        | EN60950-1                                                                                                                |         |         |
| MTBF(Hours)<br>(MIL-HDBK-217F2, GB, GC, 25°C) | 597,923                                                                                                                  | 611,417 | 650,069 |
| Warranty                                      | 5 years                                                                                                                  |         |         |

## Ordering Information

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

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

|                 | Model Name        | Description                                                                                                                                |
|-----------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Available Model | IGMC-1011GF-MM-SC | Industrial Gigabit Ethernet to fiber media converter with 1x10/100/1000Base-T(X) and 1x1000Base-SX, multi-mode, 550m/850nm, SC connector   |
|                 | IGMC-1011GF-SS-SC | Industrial Gigabit Ethernet to fiber media converter with 1x10/100/1000Base-T(X) and 1x1000Base-LX, single-mode, 10km/1310nm, SC connector |
|                 | IGMC-1011GP       | Industrial Gigabit Ethernet to fiber media converter with 1x10/100/1000Base-T(X) and 1x1000Base-X, SFP socket                              |

### Packing List

- IGMC-1011GF/GP
- DIN-Rail Kit
- Wall-Mount Kit
- Quick Installation Guide

### Optional Accessories (Can be purchased separately)

- SFP1G series, 1Gbps SFP optical transceiver
- DR-45 series, 45W DIN-Rail power supply
- DR-75 series, 75W DIN-Rail power supply
- DR-120 series, 120W DIN-Rail power supply
- SDR-240-48, 240W DIN-Rail power supply
- SDR-480-48, 480W DIN-Rail power supply
- FPC series : Fiber Patch cord

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