# IGMC-1011GF/1011GP

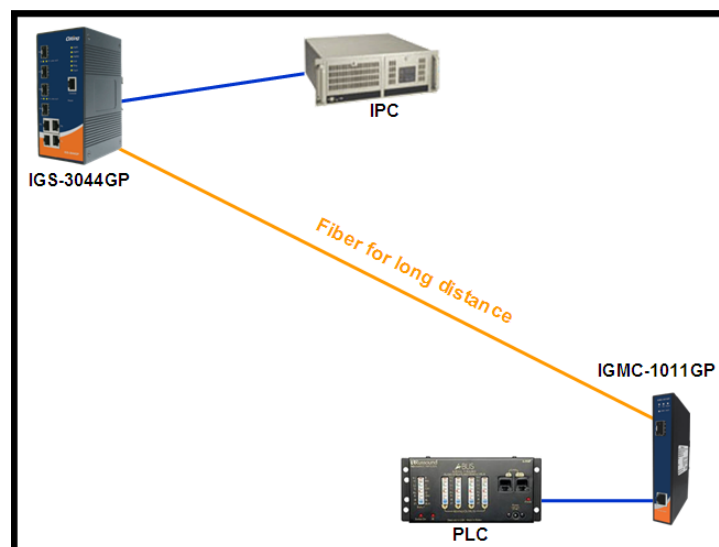*Industrial slim type Gigabit Ethernet media converter*

## 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
- Support store and forward transmission
- Relay output to carry capacity of 1A at 24 VDC
- Rigid IP-30 housing design
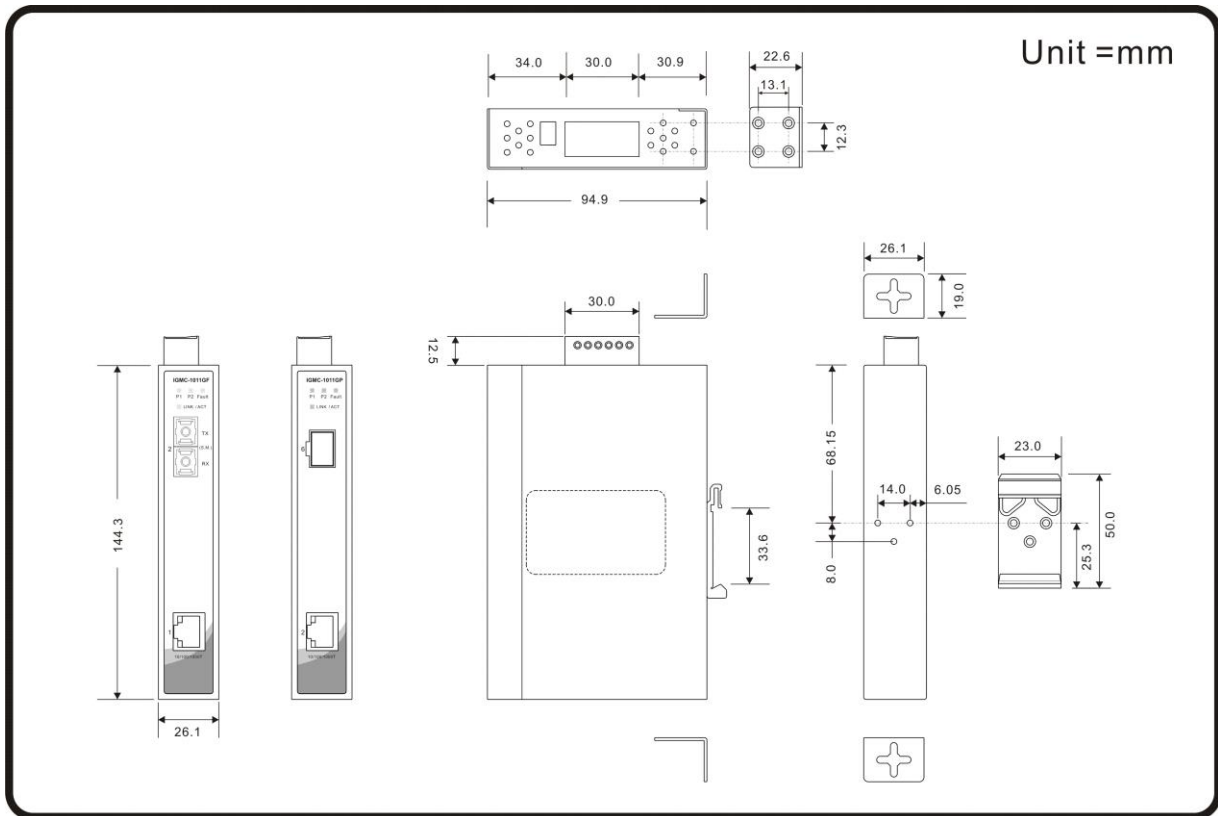- DIN-Rail and wall mounting enabled

## 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 is reliable media converter and can satisfy most demand of operating environment.
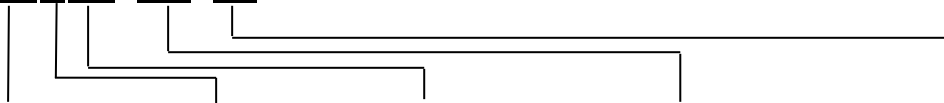
*Connections of Media converter*

# Dimension



Unit = mm

# Specifications

| ORing Media Converter Model | IGMC-1011GF-MM-SC | IGMC-1011GF-SS-SC | IGMC-1011GP |
|---|---|---|---|
| **Physical Ports** | | | |
| 10/100/1000 Base-T(X) Ports in RJ45 Auto MDI/MDIX | 1 | 1 | 1 |
| 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 50/125 μm | 9/125 μm | - |
| Fiber Optical Connector | SC | SC | - |
| Typical Distance (Km) | 0.55 Km | 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 |
| **Technology** | | | |
| Ethernet Standards | IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX | | |

(Note: the left side of the table is labeled "Fiber Ports Specifications" spanning the fiber-related rows.)

|  | IEEE 802.3ab for 1000Base-T |
|  | IEEE 802.3z for 1000Base-X |
| Jumbo Frame | 10240 Bytes |

| **LED Indicators** | |
|---|---|
| Power / Ready 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 voltage 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 (1.03 x 3.74 x 5.68 inch) | | |
| Weight (g) | 400g | 400g | 380g |

| **Environmental** | |
|---|---|
| Storage Temperature | -40 to 85ºC (-40 to 185ºF) |
| Operating Temperature | -40 to 70ºC (40 to 158ºF) |
| Operating Humidity | 5% to 95% Non-condensing |

| **Regulatory approvals** | | | |
|---|---|---|---|
| EMI | FCC Part 15, CISPR (EN55022) class A | | |
| EMS | EN 61000-4-2 (ESD), EN 61000-4-3 (RS), EN 61000-4-4 (EFT), EN 61000-4-5 (Surge), EN 61000-4-6 (CS), EN 61000-4-8, EN 61000-4-11 | | |
| Shock | IEC 60068-2-27 | | |
| Free Fall | IEC 60068-2-32 | | |
| Vibration | IEC 60068-2-6 | | |
| Safety | UL 61010-1, UL 61010-2-201 | | |
| **MTBF (Hours) (MIL-HDBK-217F2, GB, GC, 25ºC)** | 597,923 | 597,923 | 650,069 |
| **Warranty** | 5 years | | |

## Ordering Information

**IGMC-1AABCC-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 |
|---|---|---|---|---|---|
|  |  |  |  |  |  |

| Option | - 01: 1 port | - 1: 1 port | - GF: 1000Base-FX Fiber | - MM: Multi-mode | - SC: SC connector |
|---|---|---|---|---|---|
| | | | - GP : 1000Base-X SFP | - SS: Single-mode | |

| | 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-1011GC/1011GP x 1**
- **Quick Installation Guide x 1**
- **DIN-Rail Kit x 1**
- **Wall-mount Kit x 1**

## Optional Accessories

- **SFP 1G series : 1Gbps SFP optical transceiver**
- **DR-45 series : 45 Watts DIN-Rail power supply**
- **DR-75 series : 75 Watts DIN-Rail power supply**
- **DR-120 series : 120 Watts DIN-Rail power supply**