



GE-C102:
10/100/1000Base-T/SFP to SFP Gigabit Ethernet Converter

Key Features

- Supports one 10/100/1000Base-T Gigabit Ethernet UTP port and one 1000Base-SX / LX Gigabit Ethernet Fiber port
- Supports auto mode on the TP port
- Supports 802.3x flow control for full-duplex ports and backpressure for half-duplex ports
- RoHS Compliance

Overview

GE-C102- The converter is designed to make Fiber Gigabit Ethernet conversion between 10/100/1000Base-T (RJ-45) / 1000Base-SX/LX(SFP) dual media to 1000Base-SX/LX(SFP). It is Gigabit Ethernet converter application. In addition, the converter implements jumbo frame forwarding capability. The overall network flexibility is enhanced, and the network efficiency is also improved to accommodate and deliver high bandwidth applications.

Technical Specifications

- **Standards**
IEEE802.3 10Base-T,
IEEE802.3u 100Base-TX,
IEEE802.3z/ab 1000Base-T,
IEEE802.3x full-duplex flow control,
1000Base-SX/LX
- **Cable**
UTP: Cat. 5 cable and up to 100m
Fiber: 9/125µm single-mode
62.5/125µm, 50/125µm multi-mode
- **LED Indicator**
PWR (Power)
P2 SFP L/A (LINK/ACT),
P1 SFP L/A (LINK/ACT)
P1 TP L/A (LINK/ACT), SPD (10/100/1000Mbps)
- **LED Description**

| LED | Color | Function |
|-----------------|----------------|--|
| POWER | Green | Lit when +5V power is coming up |
| P2 SFP LINK/ACT | Green | Lit when fiber connection is good Blinks when any traffic is present |
| P1 SFP LINK/ACT | Green | Lit when fiber connection is good Blinks when any traffic is present |
| P1 TP SPD | Green Amber | Green Lit when 1000Base-T is active Amber Lit when 100Base-TX is active OFF: when 10Base-T is active |
| P1 TP LINK/ACT | Green | Lit when TP connection is good Blinks when any traffic is present |

• **Data Transfer Rate:**

| Speed | Data Transfer Rate |
|----------|--------------------|
| 1000Mbps | 1,488,000 PPS |
| 100Mbps | 148,800 PPS |
| 10Mbps | 14,880 PPS |

TP: 10/100/1000FDX/HDX with NWay auto-negotiation
Fiber: 1000FDX

- **Power**
Requirement: 0.9A up @ +5VDC
Consumption: 3.6W
- **Ambient Temperature:** 0 ~ 40°C
- **Humidity:** 5% ~ 90%
- **Dimensions:** 87.7(W) x 140.7(D) x 29.4(H) mm
- **Certification:** FCC Part 15 Class A, CE Mark

Ordering Information

| Model | Description |
|-----------------------|---|
| GE-C102LC | 10/100/1000Base-T/ SFP to SFP Gigabit Ethernet Converter, MM LC, 850nm |
| GE-C102LC.S10 | 10/100/1000Base-T/ SFP to SFP Gigabit Ethernet Converter, SM LC 10km, 1310nm |
| GE-C102LC.S30 | 10/100/1000Base-T/ SFP to SFP Gigabit Ethernet Converter, SM LC 30km, 1310nm |
| GE-C102LC.S50 | 10/100/1000Base-T/ SFP to SFP Gigabit Ethernet Converter, SM LC 50km, 1550nm |
| GE-C102BL5.S10 | 10/100/1000Base-T/ SFP to SFP Gigabit Ethernet Converter, SM Bidi LC 10km, 1550nm |
| GE-C102BL3.S10 | 10/100/1000Base-T/ SFP to SFP Gigabit Ethernet Converter, SM Bidi LC 10km, 1310nm |
| GE-C102BL5.S20 | 10/100/1000Base-T/ SFP to SFP Gigabit Ethernet Converter, SM Bidi LC 20km, 1550nm |
| GE-C102BL3.S20 | 10/100/1000Base-T/ SFP to SFP Gigabit Ethernet Converter, SM Bidi LC 20km, 1310nm |

Note: One SFP transceiver is included