

Ci-GF110/120 GE Genius Serial Data to Fiber Optic Converter



- Provide 1 channel GE Genius fieldbus interface, maximum communication rate up to 153.6Kbps
- Support 1~2 Fiber Optic Ports, ST connector (SC, FC Optional)
- Support Optical Fiber link failure and power error alarm LED indication
- DC (18~36V) dual redundant power input (can be customized with 9~18VDC), With DC1500V voltage isolation and reverse connect protection
- IP40 protection, Metal case (wave grain aluminum reinforce case option), 35mmDIN-Rail Installation
- Operating Temperature: -40°C to 75°C suitable to various Industrial work situation

Summary

This series of products is an industrial grade GE Genius fieldbus fiber converter, support for GE Genius protocol, the maximum communication rate up to 153.6Kbps, providing single / double light chain network. Ci-GF110 supports one fiber interface and one data bus interface, Ci-GF120 supports two way cascade fiber interface and one data bus interface. Featured with 35mmDIN rail mounting, IP40 metal case (wave grain aluminum reinforce case option), DC (18~36V) dual redundant power input (can be customized with 9~18VDC), relay output alarm, dual redundant power input and isolation protection function. It equipped with -40~75°C wide temperature range, can meet the requirements of a variety of industrial sites, providing convenient optical fiber communication solutions.

Specification

Bus data interface

- GE Genius Fieldbus SER1, SER2 industrial terminal wiring
- Support for GE Genius Fieldbus protocol
- Baud Rates: 38.4Kbps、76.8Kbps、153.6Kbps(default)
- constant voltage 1000V
- Resistor: without terminal resistor, connect external when necessary.

Optical Interface

- Wave length: multi-mode 850nm、1310 nm; single mode 1310 nm、1550nm
- Fiber type: multi-mode 50/125um、62.5/125um、100/140um;single mode 8.3/125 um、9/125um、10/125um
- Transmission distance: multi-mode 2km, single mode 20km.
- Fiber interface type: ST/SC/FC (optional); ST (standard configuration).
- Single Fiber wavelength: A: Transmit wavelength is single mode 1310nm, then Receive wavelength is 1550nm; B: Transmit wavelength is single mode 1550nm, then Receive wavelength is 1310nm

Power

- DC (18~36V) dual redundant power input (can be

customized with 9~18VDC), industrial standard voltage DC24V, consumption is less than 1.5W, With DC1500V voltage isolation and reverse connect protection, adopt 5 cores 5.08mm industrial terminal port (please use industrial standard power, otherwise it will occur unit error or damage).

Protection

- Relay: Fiber link fault alarm
- Contact rating: 1A @24V DC, Industrial Terminal port

Mechanical

- Dimensions (HxDxW): 136mmx104.8mmx52.8mm
- Weight:800g
- Casing: IP40 protection, wave grain aluminum reinforce case option
- Installation: Wall mounting or DIN rail mounting

Environmental

- Operating Temperature:-40 °C ~75 °C (-40 °C ~85 °C optional)
- Storage Temperature: -40°C~85°C
- Ambient Relative Humidity: 5%~95%(non-condensing)

Warranty

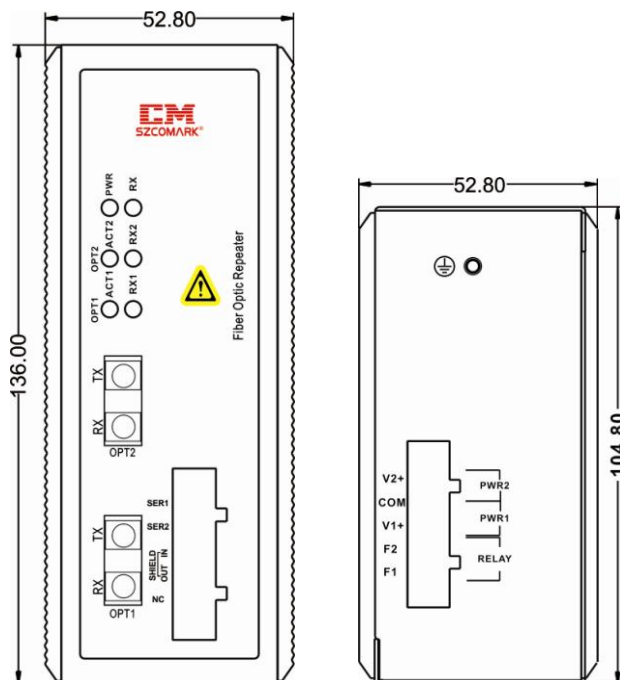
- Warranty Period: 5 years

Certification

- IEC61000-4-2(ESD): Power ±6KV Contact, ±15KV Air; Relay ±8KV Contact, ±15KV Air; Data Cable ±2KV Contact, ±15KV Air
- IEC61000-4-4(EFT):Power ±2KV, Data Cable ±2KV
- IEC61000-4-5(Surge):Power ±2KV CM/ ±1KV DM,

- Relay±2KV CM/ ±1KV DM
- IEC60068-2-27(Shock)
- IEC60068-2-32(Free Fall)
- IEC61000-6-2(General Industrial Standard)
- EN50121-4 (rail transit)

Dimensions (mm)



Models

Part No.	Description
Ci-GF110	1 GE Genius bus port, 1 Fiber Optic port, (single mode / multi-mode, single fiber / double fiber optional), ST/SC/FC optional, communication rate default to 153.6Kbps, 38.4Kbps and 76.8Kbps optional, 9~18vdc power supply customizable
Ci-GF120	1 GE Genius bus port, 2 Fiber Optic ports, (single mode / multi-mode, single fiber / double fiber optional), ST/SC/FC optional, communication rate default to 153.6Kbps, 38.4Kbps and 76.8Kbps optional, 9~18vdc power supply customizable

Package List

- GE Genius data fiber optic converter (with industrial terminal block for power equipment)
- Product specification
- Product warranty card