

# Ci-UF110/120 General Serial Data to Fiber Optic Converter



- Support RS-232/485/422 Ports
- Support 1~2 Fiber Optic Ports, ST connector ( SC, FC Optional)
- Support Optical Fiber link failure and power error alarm LED indication
- Support CC-link/BACnet/interbus/cs31/DH485 etc many Fieldbus to Fiber optic converter
- 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℃ to 75℃ suitable to various Industrial work situation

## Summary

Ci-UF110/120 series is designed for industrial grade serial data fiber optic converter, supports RS232/485/422 general serial networks.

Support CC-link/BACnet/interbus/cs31/DH485 etc many Fieldbus to Fiber optic converter, Supports single and dual optical daisy network. 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. Ci-UF110 supports one fiber interface and one data bus interface, Ci-UF120 supports two way cascade fiber interface and one data bus interface.

## Specification

### Bus data interface

- Support for CC-link/BACnet/interbus/cs31/DH485 serial communication based on RS-232/485 protocol
- RS-232 baudrate: 0~115.2Kbps, support RXD, TXD, GND three line works.
- RS-422 support RX-, RX +, TX-, TX + full-duplex mode ;RS-485 support A, B half-duplex mode;RS-485/422 baudrate:0~10Mbps optional
- constant voltage 1000V
- Resistor: the unit has 220 ohms, use corresponding switch to make it to be enable

### 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 ℃ ~75 ℃ (-40 ℃ ~85 ℃ optional)
- Storage Temperature: -40℃~85℃
- Ambient Relative Humidity: 5%~95%(non-condensing)

### Warranty

- Warranty Period: 5 years

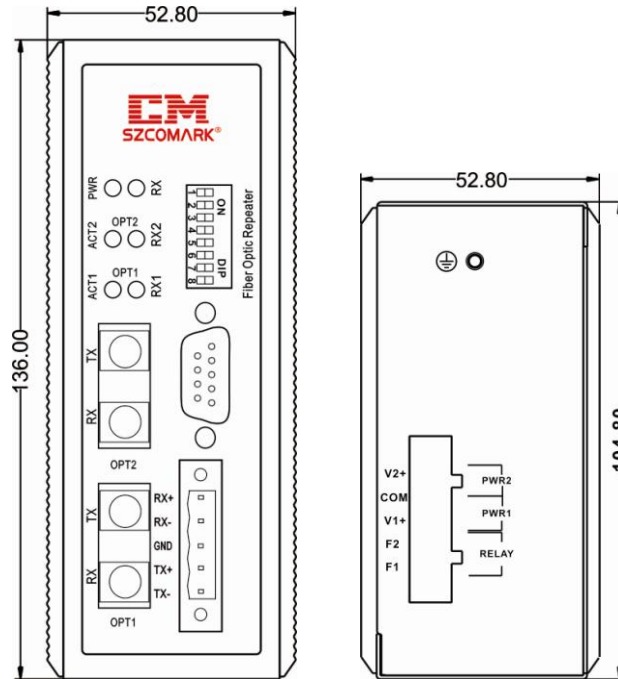
## Certification

- IEC61000-4-2(ESD):±8KV Contact, ±15KV Air
- IEC61000-4-4(EFT):Power ±1KV, Data Cable ±1KV
- 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-UF110	RS-232/485/422 serial port, 1 Fiber Optic port, Single mode / Multi-mode(optional), Single Fiber / Double Fiber( Optional), 18v~36VDC (9~18vdc Optional)
Ci-UF120	RS-232/485/422 serial port, 2 Fiber Optic port. Single mode / Multi-mode(optional), Single Fiber / Double Fiber( Optional), 18v~36VDC (9~18vdc Optional)

## Package List

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