

Ci-EF110/120 Memobus Serial Data to Fiber Optic Converter



- Provide 1 Memobus bus interface, communication rate up to 4Mbps
- 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℃ to 75℃ suitable to various Industrial work situation

Summary

This series of products is an industrial grade Memobus bus optical fiber converter, providing MEMOBUS serial port, support serial communication based on Memobus, communication rate up to 4Mbps, single / double fiber port network support. Ci-EF110 support one channel optical fiber interface, one channel bus data interface, Ci-EF120 supports two cascaded optical fiber interface, one bus data interface. This product features with industrial grade design, IP40 protection grade, wavy aluminum strengthening shell, 35mmDIN rail installation, DC (18~36V) wide power input (9~18VDC power model customizable), with relay alarm output, power supply redundancy and isolation protection etc.. -40~75 working temperature range, can meet the requirements of a variety of industrial sites, providing convenient optical fiber communication solutions.

Specification

Bus data interface

- Memobus Fieldbus 5-pin industrial terminal connection
- Baud Rates: 0~4Mbps
- constant voltage 1000V
- Resistor: the unit has 75 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

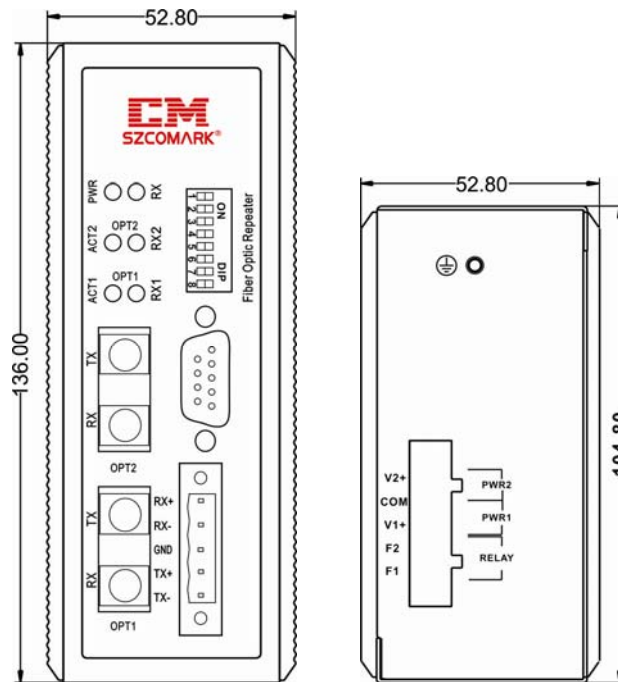
- Warranty Period: 5 years

Certification

- IEC61000-4-2(ESD): Power ±8KV Contact, ±15KV Air; Relay ±8KV Contact, ±15KV Air; Data Cable ±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-EF110	1 Memobus bus port, 1 Fiber Optic port, (single mode / multi-mode, single fiber / double fiber optional), ST/SC/FC optional, communication rate up to 4Mbps, 9~18vdc power supply customizable.
Ci-EF120	1 Memobus bus port, 2 Fiber Optic port, (single mode / multi-mode, single fiber / double fiber optional), ST/SC/FC optional, communication rate up to 4Mbps, 9~18vdc power supply customizable.

Package List

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