Ci-RF110/120 S908 RIO Serial Data to Fiber Optic Converter

- Provide 1-channel S908 RIO fieldbus, communication rate 1.544Mbps
- 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 S908 RIO fieldbus fiber converter, support for S908 RIO protocol, 1.544Mbps communication rate, single / double optical port network support. Ci-RF110 supports one way optical fiber interface, one way bus data interface, Ci-RF120 supports two cascaded optical fiber interface, 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 (customizable 9~18VDC power model), 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
- BNC-F interface
- Accord with S908 RIO field bus protocol, communication speed: 1.544Mbps
- 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 (H×D×W): 136mm×104.8mm×52.8mm
- 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 ±6KV Contact, ±15KV Air; Relay ±8KV Contact, ±15KV Air; Data Cable ±2KV Contact, ±15KV Air
- IEC61000-4-4(EFT):Power ±4KV, Data Cable ±4KV
- 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）
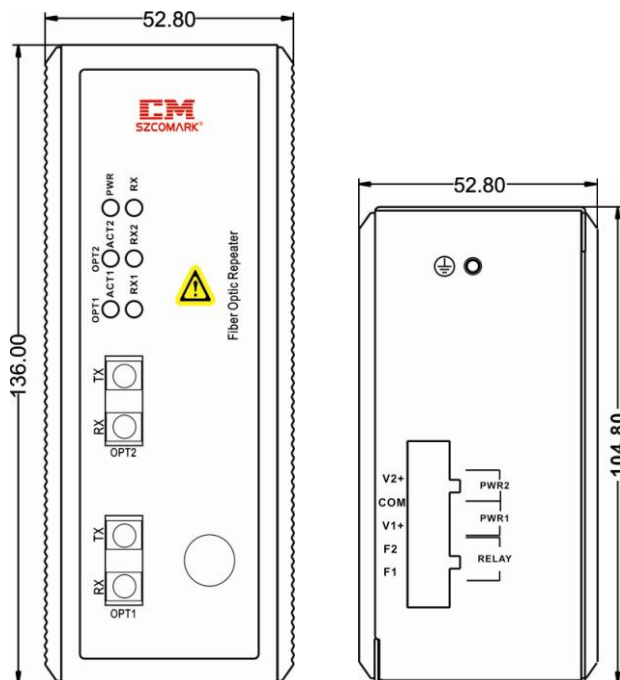
Models

Part No.	Description
Ci-RF110	1 S908 RIO bus port, 1 Fiber Optic port, (single mode / multi-mode, single fiber / double fiber optional), ST/SC/FC optional, communication rate is 1.544Mbps, 9~18vdc power supply customizable
Ci-RF120	1 S908 RIO bus port, 2 Fiber Optic ports, (single mode / multi-mode, single fiber / double fiber optional), ST/SC/FC optional, communication rate is 1.544Mbps, 9~18vdc power supply customizable

Package List

- S908 RIO data fiber optic converter (with industrial terminal block for power equipment)
- Product specification
- Product warranty card