

Ci- PP21 Profibus DP Bus Link Redundant Module



- Support 3 Profibus DP bus, according to Profibus DP Protocol
- Realizes the mutual conversion between single bus (M port) and dual redundant bus (A, B port)
- Support Dial switch for setting communication rate(all ports baud rate must be same)
- Support 3Chs photon coupled isolation ports, Isolated Voltage 1000V, and 4000V Anti-thunder protection
- Support 4 dual colors LED Indicator, Fieldbus ports error Relay alarm output
- DC (9~36V) dual redundant power input, 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 is designed for industrial grade Profibus DP Link Redundant Module, support Profibus DP protocol. The link redundancy module realizes the mutual conversion between single bus (M port) and dual redundant bus (A, B port), either converting the single cable bus to a redundant Profibus DP bus, or the redundant Profibus DP bus to a single cable bus. The data received from the M port is broadcast to the A, B port, but the A or B port data is forwarded to the M port in the first selection principle, so as to establish a working path at any time, monitoring the state of communication equipments in real-time. When the receiver at the port of the operation detects a bus fault, switch to the redundant port, and vice versa. The device can be directly placed after the Profibus DP master, the single cable bus into a redundant bus; can also be placed on the slave bus to convert the redundant bus to non-redundant cable, with optocoupler isolation, reduce interference and other performance , The rate set by the DIP switch or select the rate of adaptive settings.The product is Industrial grad designed, Casing: IP40 protection, wave grain aluminum reinforce case option, DIN rail mounting, DC(9~36V) power input, support Fieldbus ports error Relay alarm output, dual redundant power input and isolation protection. -40~75℃Operating Temperature, can meet various Industrial situation.

Specification

Bus data interface

- Interface type: standard 9 pin type D Profibus DP fieldbus cable interface, conform to Profibus DP protocol standard.
- Support Profibus DP bus standard
- Baud Rates: 9.6Kbps 、 19.2 Kbps 、 45.45Kbps 、 93.75Kbps、 187.5Kbps、 500Kbps、 1.5Mbps、 6Mbps 、 12Mbps
- Signal Delay (electrical interface): ≤4Bit
- Isolated voltage 1000V,4000V Anti-thunder protection
- Resistor: without terminal resistor, connect external when necessary

Power

- DC (9~36V) dual redundant power input, industrial standard voltage DC24V, consumption is less than 4W, 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: Fieldbus ports error Relay alarm output
- 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

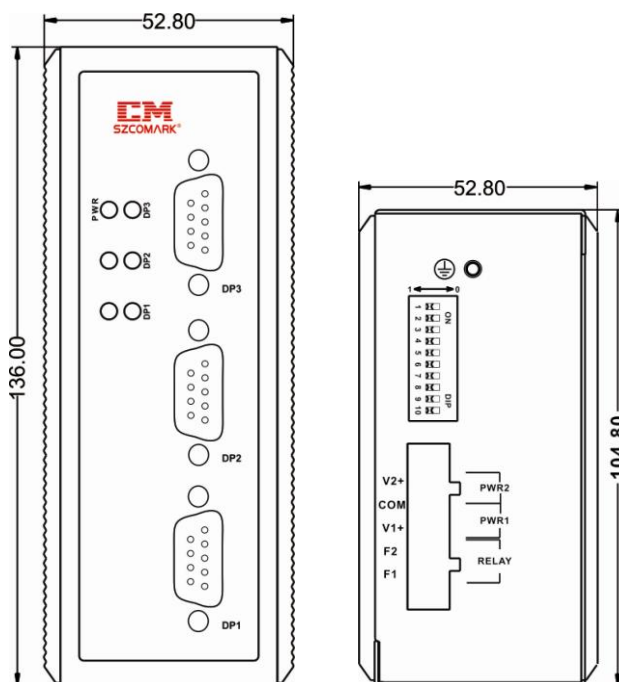
Certification

- IEC61000-4-2(ESD): Power ±2KV Contact, ±15KV Air; Relay ±2KV Contact, ±15KV Air; Data Cable ±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.	Product series	Description
Ci-PP21	3*copper	Profibus bus link redundancy module, 1 M port (DP3), 2 redundant bus A (DP1), B (DP2) port, DIP switch setting rate or rate adaptive option.

Package List

- Profibus-DP Link Redundant Module(with industrial terminal block for power equipment)
- Product specification
- Product warranty card