

## Industrial rail 1 port Profibus-DP Multiplexer

### Specification

#### Overview

This series of equipment using large FPGA design, using the original technology, can support a channel Profibus-DP to fiber optic repeater, communication rate 0-12Mbps. , IP40 protection grade, wavy aluminum reinforced case, 35mm DIN rail mounting, AC & DC (9~55V) wide power input, power supply redundancy and isolation protection. -40~75°C operating temperature range, able to meet the requirements of various industrial sites, providing convenient fiber optic communication solutions;

#### Photo



#### Features

- The device is used in pair, the signal input terminal, a signal output terminal;
- Provide 1 Profibus DP field bus, communication baud rate adaptive 9600-12Mbps;
- Multimode/single mode fiber optional, multimode can transmit 2KM, single mode can transmit 20-120KM, ST/SC/FC interface is optional;
- With signal fault protection function; omnidirectional display of electrical interfaces and fiber operating

conditions

- Profibus DP interface anti-radar to IEC61000-4-5 (8/20 μ S). Differential mode: 6KV, impedance (2 Ω); Common mode: 6KV, impedance (2Ω) standard;
- Support wide range of 9-48V AC and DC input, support internal isolation, redundant dual power input, power supply overload protection, anti-reverse protection;
- Meet the industrial four-level electromagnetic compatibility requirements;
- Super lightning protection function: lightning protection, anti-induction high voltage, anti-surge, etc;
- Fanless efficient heat dissipation, reducing repair time;
- IP40 enclosure protection level, can withstand the harsh environment;
- DIN 35mm rail or wall mount;
- Wide temperature type: working temperature -40 ° C ~ +85 ° C;
- All models are tested by 100% baking machine, warranty period: 5 years;

## Parameters

### ◆ Fiber optic

Optical port: 1

Optical fiber: single fiber and dual fiber

Fiber Interface: FC/SC/ST/LC (SFP)

Wavelength: 850nm/1310nm multimode;

1310nm/1550nm single mode

No relay transmission distance: 20~120Km

Typical transmit power:

Single mode 1310/1550nm: ≥-9dBm

Multimode 850nm: -18dBm

Multimode 1310nm: -25dBm

Acceptable sensitivity range: -28dBm~- 40dBm

### ◆ Profibus DP interface

Standard: Support Profibus DP standard

Rate: 9.6kBit/s、19.2 kBit/s、45.45kBit/s、

93.75k kBit/s、187.5kBit/s、500kBit/s、

1.5MBit/s、6MBit/s and 12MBit/s.

Physical interface: 9-pin D-Sub jack connector with pin definitions in accordance with Profibus DP protocol specifications

Rate setting: 9600-12Mbps/s automatic identification

Signal delay (electrical port): ≤11Bit

Terminal resistance: This unit does not have a terminating resistor, please connect as needed

### ◆ Working environment

Working temperature: -40°C—+85°C

Storage temperature: -40°C—+85°C

Working humidity: 0%—95% (no condensation)

MTBF: > 100,000 hours

Product number	FCP-P1G
Product function description	Transmit 1 port Profibus DP interface over fiber optic
Service port description	1 fiber optic interface; 1 Profibus DP interface
Power supply	Redundant dual power input: AC & DC9-48V power consumption <5W overload



	<p>protection: support; reverse connection protection: support; redundancy protection: support</p> <p>Access terminal: 4-core 5.08mm pitch plug-in terminal</p> <p>Housing: IP40 protection grade, aluminum alloy</p> <p>Installation method: rail mounting, wall mounting</p>
Product Size	(Length × width × height) 133*120*40mm
Weight	0.45Kg/pcs

## Application

Point to Point:

