

Model271 Series

RS-232/485/422 to Fiber Converter

Features

1. Auto sense serial signal rate, zero delay automatic transmit
2. 500Kbps the highest baudrate
3. Supply three interface (RS232/485/422)
4. Multi-mode 2, 5KM, signal-mode 20,25, 40, 60, 80, 100 120KM
5. Compact Size
6. Decreases Signal interference
7. DIN Rail or Wall-mounting



Introduction

The Model271 Series converter is equipped with a multiple interface circuit that can handle RS-232, or RS-422/485 serial interfaces and multi-mode or single- mode fiber. Model271 converters are used to extend serial transmission distance up to 2-5 km

(multi-mode fiber) or up to 20-120 km (single- mode fiber). Note that the RS-232 and RS-422/485 interfaces cannot be used on the same Model271 at the same time to convert to fiber. Auto Baud Rate Detection.

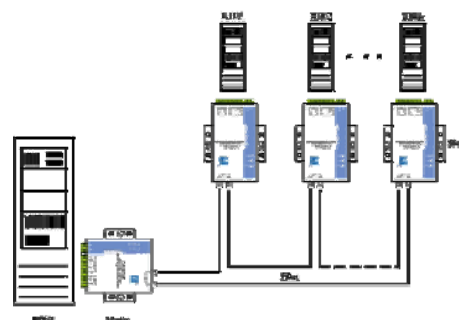
Automatic Baudrate Detection

The Model271 Series incorporates a method for automatically detecting the serial signal baud rate by hardware. This is an extremely convenient feature for

the user. Even if a device's baud rate is changed, the signal will still be transmitted through the RS-232 or RS-422/485 to fiber converter without any problem.

Ring Operation

Model271 can be used to connect serial device to a fiber Ring.
To form the ring, connect the Tx port of one Model277 to the Rx port of a neighboring converter. Please make sure that there Have Model271 is master and others are slaves.



Specifications

RS-232/485/422 side

Standard: EIA RS-232, RS-485, RS-422

Connector: Terminal Block

RS-232 Signals: Tx, Rx, GND

RS-422 Signals: T+, T-, R+, R-

RS-485 Signals: T+, T-

Baudrate: 0-500kbps

ESD Protection: 15KV for all signals

Optic fiber side

Fiber Connector: SC, FC or ST optional

Cable Requirements

Single-mode: 8.3/125, 8.7/125, 9/125 or 10/125μm

Multi-mode: 50/125, 62.5/125, or 100/140μm

Transmission

Single-mode: 20, 25, 40, 60, 80, 100, 120KM optional

Multi-mode: 2, 5KM

Wavelength

Single-mode: 1310nm

Multi-mode: 850nm

Tx Output

Single-mode: >-5dBm

Multi-mode: >-5 dBm

Rx Sensitivity

Single-mode: -25dBm

Multi-mode: -25dBm

Point-to-Point Transmission: Half-duplex or full-duplex

Ring Transmission: Half-duplex

Physical Characteristics

Case: Iron

Dimensions: 100*69*22mm

Environment

Operating Temperature: -25°C to 70°C

Storage Temperature: -40°C to 85°C

Relative Humidity: 5 to 95%

Power Requirements

Input Voltage: 9-36VDC

Consumption: 120mA

Warranty: 5 Years

Ordering Information

You can choose Model271 according to the table

Distance: MM: Multimode SM: Single-mode

☐ 0~2km MM

☐ 0~5km MM

☐ 0~20km SM

☐ 0~25km SM

☐ 0~40km SM

☐ 0~60km SM

☐ 0~80km SM

☐ 0~120km SM

Optical Port:

☐ SC

☐ FC

☐ ST

Package Checklist

1. Model271 series RS-232/485/422 to Fiber Converter×1
2. User manual ×1

Fiber Optic Connector



FC Connector



SC Connector



ST Connector