

# Model 277

## RS232/485/422 to Fiber converter

### Features

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



### Introduction

The Model277 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. Model277 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 Model277 at the same time to convert to fiber. Auto Baud Rate Detection

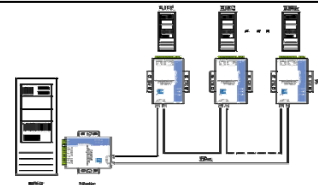
### Automatic Baudrate Detection

The Model277 Series incorporates a method for automatically detecting the serial signal baud rate by hardware. This is an extremely convenient feature for

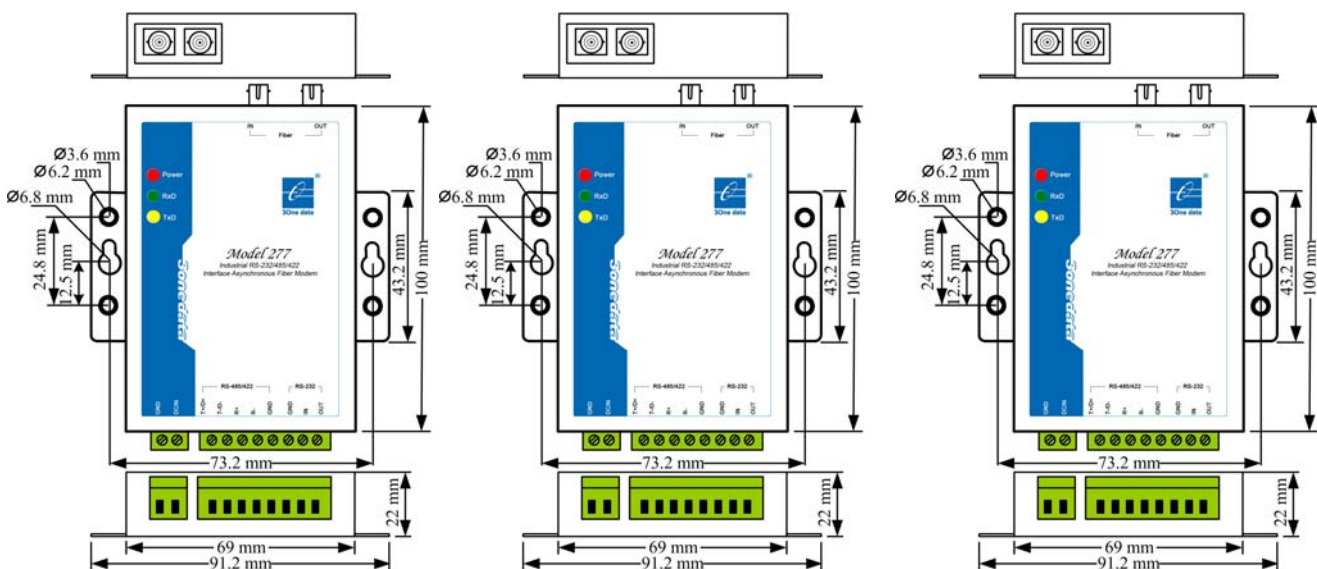
the user. Even if a device's baud rate is changed, the signal will still be transmitted through the RS-232 or RS-422/485 to fiber converter without any problem.

### Ring Operation

Model277 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 is one Model277 is master and others are slaves.



### Dimension



## Specifications

### RS-232/485/422 side

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

**Connector:** Terminal Block

**RS-232 Signals:** Tx, Rx, GNG

**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 10/125 $\mu$ m

Multi-mode: 50/125, 62.5/125, or 100/140 $\mu$ m

### 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:  $>-5$ dBm

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:**  $-25^{\circ}\text{C}$  to  $70^{\circ}\text{C}$

**Storage Temperature:**  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$

**Relative Humidity:** 5 to 95%

### Power Requirements

**Input Voltage:** 9-36VDC

**Consumption:** 120mA

### Warranty

**Warranty:** 5 Years

## Ordering Information

You can choice Model277 according to the table

**Distance: MM: Multimode SM: Single-mode**

0~2km MM

0~20km SM

0~40km SM

0~80km SM

0~5km MM

0~25km SM

0~60km SM

0~120km SM

### Optical Port:

SC

FC

ST

## Package checklist

1 Model277 RS232/485/422 to optic fiber converter

1 Usermanual

The Model277 can use for 4U Rack

