

# Model277/B Series

RS-485/422 to Fiber Converter

## Features

1. Extend RS-485/422 transmission up to 120Km with single-mode
2. Transmit asynchronously, point to point, speed reach 500Kbps
3. Examine signal speed automatically, zero delay time
4. Plug-and-Play(hot-pluggable, data format auto-sensing & self-adjusting)
5. Power External 5VDC
6. 600W surge protection, 15KV ESD protection



## Introduction

Model277/B is one kind can offer RS-485/422 serial port carry transparent optic fiber modem of transmission to get end to user, no need patch cords set up, switch over automatically, and can detect and examine the signal speed automatically, zero delays time to transmit automatically. Model277/B adopt optic fiber transmit, have isolate protection, data privacy is fine, working steady, data, such threats to communication equipment as the wave is welled up and interfered with electromagnetically that the effective one has prevented the

abominable environment from being struck by lightning, can work in the abominable and dangerous environment reliably. Can be used in occasions such as various industrial control, course controlling, traffic controlling and intellectual district, especially suit the bank, electricity and interfering with environment department and system with the special requirement electromagnetically.

## Specification

### RS-485/422

Standards: EIA RS-485, RS422 standard

RS-422 signal: T+, T-, R+, R-, GND

RS-485 signal: D+, D-, GND

Working mode: Asynchronism, point to point or multi point, 2 wire half-duplex, 4 wire full duplex

Baud rate: 300~500Kbps, auto test serial signal rate detect signal speed automatically, zero delay time

Transfer distance: RS-485/422 side: 1.2Km(9600bps)

Max number of drops: 128 nodes(RS-485/422)

Port protect: 600W surge protection  
15KV ESD protection

### Optic Fiber

Connectors: SC, FC or ST, optional

Fiber optic cables: Single Mode: 8.3/125, 8.7/125, 9/125 or 10/125 um  
Multi-Mode: 50/125, 62.5/125 or 100/125 um

Transmission: 20, 40, 60, 80, 120km(SM),

2 km(MM) optional

Wavelength: 850nm, 1310nm, 1550nm

### Power

Power input: Power External 5VDC

Consumption: 120mA

### Environment

Operating temperature: -10°C to 60°C

Storage temperature: -40°C to 85°C

Humidity: 5% to 95%(no condensation)

### Appearance

Dimensions: 94.0 × 71.0 × 26.0mm(power external)

Material: Iron(shell)

Color: White

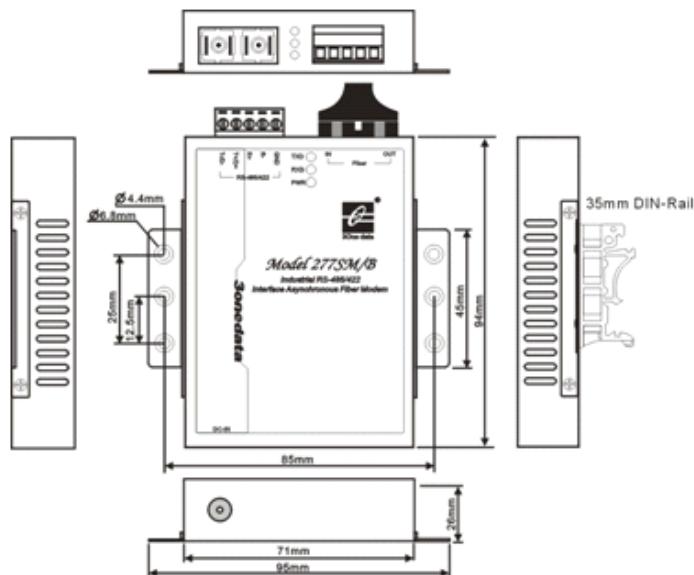
Weight: 230g(power external), 260g(power internal)

### Warranty: 5 years

### Approvals: FCC, CE, RoHS approvals



## Dimension



## Ordering Information

Model NO.	Description
<b>Model 277B-M</b>	multi-mode, 20Km, 5VDC, SC, FC or ST optional
<b>Model 277B-S/20</b>	single-mode, 20Km, 5VDC, SC, FC or ST optional
<b>Model 277B-S/40</b>	single-mode, 40Km, 5VDC, SC, FC or ST optional
<b>Model 277B-S/60</b>	single-mode, 60Km, 5VDC, SC, FC or ST optional
<b>Model 277B-S/80</b>	single-mode, 80Km, 5VDC, SC, FC or ST optional
<b>Model 277B-S/100</b>	single-mode, 100Km, 5VDC, SC, FC or ST optional
<b>Model 277B-S/120</b>	single-mode, 120Km, 5VDC, SC, FC or ST optional
<b>Model 277B-SS/20</b>	single-mode, single fiber, 20Km, 5VDC, SC, FC or ST, optional
<b>Model 277B-SS/40</b>	single-mode, single fiber, 40Km, 5VDC, SC, FC or ST, optional
<b>Model 277B-SS/60</b>	single-mode, single fiber, 60Km, 5VDC, SC, FC or ST, optional
<b>Model 277B-SS/80</b>	single-mode, single fiber, 80Km, 5VDC, SC, FC or ST, optional

## Packing List

1. Model277/B series Fiber Converter×1
2. 5VDC power adapter × 1(for power external fiber converter)
3. User manual ×1

## Quality Link Connections

