

## RS232/485/422 Fiber Modem



### Product Brief

The AT 277 MM/SM 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. AT 277 MM/SM converters are used to extend serial transmission distance up to 2 km (multi-mode fiber) or up to 20 km (single-mode fiber). (Note that the RS-232 and RS-422/485 interfaces cannot be used on the same AT 277 MM/SM at the same time to convert to fiber.)

**Auto Baud Rate Detection:** The AT 277 MM/SM 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.

### Features

Converts RS-232/422/485 signal:

To FC/SC Single-mode fiber with AT 277 MM/SMSM

To ST Multi-mode fiber with AT 277 MM/SMMM

Extends RS-232/422/485 transmission distance:

Up to 20 km with Single mode—AT 277 MM/SMSM

Up to 2 km with Multi mode—AT 277 MM/SMMM

Plug & Play

Compact size

Reduce signal interference

Protect against electronic degradation/chemical corrosion

Supports baud rate up to 115.2 Kbps

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## Specifications

### Serial Port Specs:

RS-232 Signals: IN, OUT, GND  
RS-422 Signals: T+, T-, R+, R-, GND  
4-wire RS-485 Signals: T+, T-, R+, R-, GND  
2-wire RS-485 Signals: D+, D-, GND  
Baud Rate: 300 bps to 115.2 Kbps  
Surge Protection: 15 KV ESD

### Optical Specs

Transmission Distance:  
AT 277 MM/SMSM: Single mode fiber for 20 km  
AT 277 MM/SMMM: Multi mode fiber for 2 km  
Support Cable:  
AT 277 MM/SMSM: 8.3/125, 8.7/125, 9/125 or 10/125  $\mu$ m  
AT 277 MM/SMMM: 50/125, 62.5/125, or 100/1

### Wavelength:

AT 277 MM/SMSM: 1310 nm  
AT 277 MM/SMMM: 820 nm

### Min. TX Output:

AT 277 MM/SMSM: -9 dBm  
AT 277 MM/SMMM: -16 dBm

### Max. TX Output:

AT 277 MM/SMSM: -6 dBm  
AT 277 MM/SMMM: -7 dBm

### LED

TxD: transmits Data from fiber  
RxD: receives Data from fiber

### Environment

Operating Temperature: 0 to 60°C (32 to 142°F)  
Storage Temperature: -20 to 85°C (-4 to 185°F)  
Humidity: 5 to 95% RH

### Power

Input Power Voltage: 5V to 40 VDC

### Mechanical

Dimensions (W x D x H): 67 x 100 x 22 mm  
90 x 100 x 22 mm (including ears)  
Material: Aluminum (1 mm)

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