

- Support "point-to-point" mode.
- Support SM mode or MM mode fiber with SC or ST interfaces
- RS-232/422/485 3-in-1 interface
- Extend serial communication distance  
SM mode is 20km (ATC-277SM)  
MM mode is 2km (ATC-277MM)
- Serial Baud Rate: RS-232 300 to 115.2KBPS  
RS-422/485 300 to 230.4KBPS
- 600W lightning protection for all RS232 signal line,  
1000W lightning protection for all RS485 signal line
- Small size and support DIN rail for easy installation
- Isolation protection, reduce electrical interference



### Introduction

ATC-277 SM/MM is a kind of multi-function serial port to fiber optic MODEM converter. It is the best solution for remote terminal unit (RTU) connect to HOST or a distributed data acquisition system (SCADA) controller. This product uses optical fiber as transmission medium, to improve the system transmission performance. Effectively avoid bad environment of communications equipment. Such as the lightning, surge and electromagnetic interference.

### Specification

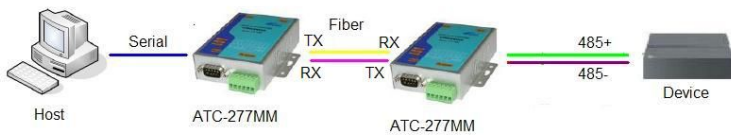
#### Optical fiber part

**Interface:** SC or ST  
**Fiber requirements:** 50/125μm, 100/140μm, 200μm.  
**Transmission distance:** SM: 20 km, MM: 2km  
**Wavelength:** SM: 1310 nm, MM: 850 nm  
**Coupled Power Budget:** 12.1 dB  
**Point to point transmission:** half-duplex and full-duplex

#### RS-232/485/422 port

**Interface:** DB9-DTE (Male) for RS-232.  
 6-bit terminal connector for RS-485/422.  
**RS-232:** TXD, RXD, GND  
**RS-485:** 485+, 485-  
**RS-422:** TX+, TX-, RX+, RX-  
**Baud rate:** 300bps ~ 250.4kbps  
**Lightning protection:** RS-232: each line 600W  
 RS-485/422: each line 1000W

### Point-to-point Work Mode



### Order information

ATC-277SM	SC	RS-232/485/422
ATC-277SM	ST	RS-232/485/422
ATC-277MM	SC	RS-232/485/422
ATC-277MM	ST	RS-232/485/422

### Physical Specifications

**Shell:** iron (1 mm)  
**Size:** 100mm × 86mm × 26 mm  
**Weight:** 0.60kg (full package)  
**Operating temperature:** -20°C to 70°C  
**Storage temperature:** -40°C to 80°C  
**Working humidity:** 5 ~ 95% RH  
**Power supply:** 9-24VDC @ 250mA max.

### Contact us

Shenzhen ATC Technology Co., Ltd  
 Room 803, Block B, Building 4, Tian'an Cyber Park, Longgang District, Shenzhen, China, 518172  
 Tel: +86-755 - 8345 2531 / 8345 3318 Fax: +86-755-2899 8985

