# 4 Channel - Serial to Fiber Multiplexer
# DYMEC SERIAL LINK/REPEATER

## DY-5977S

◆RS232/RS422/RS485 conversion, full/half-duplex communication;

◆Signal flow is automatically identified and transparently transmitted;

◆Imported optical transceiver module to ensure the transmission distance;

◆Unique serial protection circuit, hot-swappable;

◆Industrial grade design and all surface mount processes ensure long-term reliability of the product.

**Product Description**

DY-5977S multi-channel serial to Fiber multiplexer can realize multi-channel RS-232/RS-485/RS-422 transmission on one optical fiber, which not only saves fiber resources, but also uses optical fiber as transmission medium, which has isolated high voltage and anti-electromagnetic Interference, anti-lightning and other advantages. It is widely used in various industrial control and industrial automation fields, and is particularly suitable for power system automation, traffic control and other machinery.

## Technical Specifications

| Technical parameters | |
|---|---|
| Standards | Compliant with EIA RS-232, RS-485, RS-422 |
| **Interface** | |
| Interface form | Serial Port: Electrical characteristics, Meet RS-232/RS-422/RS-485 <br> Physical characteristics, Industrial terminal block <br> Optical interface: Single multi-mode optional, SC/ST/FC optional |
| **Communication rate** | |
| Baud Rate | 300bps~115.2Kbps, rate adaptive signal |
| **LEDs** | |
| Power indicator | POW |
| Data transmission indicator light | TXD, RXD, TX1-TX4, RX1-RX4, ERR (MWF204) |
| **Power** | |
| Power Supply | DC5~12V |
| Interface | P1J BNC coaxial input |
| Power | <5W |
| Overload protection | Support |
| Lightning protection | 600W/ms anti-lightning strike |
| Static protection | 15kv antistatic |
| **Physical Characteristics** | |
| Shell | Aluminum housing |
| Dimension | 225mm×30mm×96mm (Length × height × width) |
| Weight | 0.4kg |
| **Transmission distance** | |
| Serial port lines | RS-232,15m@9600bps <br><br> RS-422/RS-485, 1.2km@9600bps |
| Multimode fiber | 1310nm, 5km |
| Single mode fiber | 1310nm, 20km/40km <br> 1310nm, 60km/80km |
| **Working Environment** | |

| Operating Temperature | -40℃~85℃ |
|---|---|
| Storage temperature | -40℃~85℃ |
| Ambient Humidity | 5%~95% |
| **Warranty** | |
| Warranty | 5 Years |
| **Certifications & Regulatory Approvals** | |
| Certifications: | CE, FCC, NEMA TS-2, IEC, IEEE |

**Product Ordering Information**

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|---|---|
| DY-5877S | 4 ports RS232/RS485/RS422, 1 Single-mode optical port, SC/ST/FC available, desktop installation (FC in Stock) (5977S: 20KM Single-mode |

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