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

DY-5977M



◆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-5977M 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 Physical characteristics, Industrial terminal block 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
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 RS-422/RS-485, 1.2km@9600bps
Multimode fiber	1310nm, 5km
Single mode fiber	1310nm, 20km/40km 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-5877M	4 ports RS232/RS485/RS422, 1 Multi-mode optical port, SC/ST/FC available, desktop installation (FC in Stock) (5977M: 5KM Multi-mode

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UL, CE, FCC, IEEE, IEC, ITUT, NEMA, Substation & Digital Substation, Switchgear
IEEE 61850-3 Used in Electrical Substations & Distribution
IEEE 1613 Used in Electrical Substations & Distribution
EN50155 Used in Railway & Transportation
EN50121-4 Used in Railway & Transportation
NEMA TS-2 – Used in Traffic Signal Control Systems