

# MWF501-D

## RS232/RS485/RS422 Double-ring Self-healing Industrial Optical Transceiver

### Product description

The MWF501-D single-channel dual-loop self-healing industrial optical transceiver is a low-cost serial data transmission communication device with dual-ring self-healing function that can adapt to industrial environments. It can form a chain network or a dual-loop fiber network to realize transparent transmission of one RS-232/RS-485/RS-422 on the fiber ring network without changing the user agreement.



#### Features:

- Support fast ring network redundancy function;
- PCM pulse code modulation technology combined with digital phase-locked loop clock extraction technology;
- Serial protection circuit, hot-swappable;
- Serial access node greater than 128;
- Smart electrical interface, no dial setting;
- Perfect status indication, LED light alarm, easy maintenance and troubleshooting.

### Product specifications

Technical parameters	
Standard	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
<b>Communication rate</b>	
Baud Rate	300bps~115.2Kbps, rate adaptive signal
<b>LEDs</b>	
Power indicator	POW
Master slave indicator	MAIN, SUB
Data transmission indicator light	LOOPA/B, TXA/B, RXA/B, TXD, RX
<b>Power</b>	
Power Supply	MWF501-D/M: DC9~30V MWF501-D/M-KG: DC12V(D9~18V) DC24V(DC18~36V) DC48V(DC36~72V) AC85~265V/DC110~370V
Interface	Industrial terminal block
Power	<2W (MWF501-D/M) <5W (MWF501-D/M-KG)
Overload protection	Support
Lightning protection	600W/ms anti-lightning strike
Static protection	15kv anti-static
<b>Physical Characteristics</b>	
Shell	Aluminum housing
Dimension	110mm×27mm×100mm (MWF501-S/M) 144mm×33mm×97mm (MWF501-S/M-KG)
Weight	0.4kg
<b>Transmission distance</b>	
Serial port line	RS-232,15m@9600bps RS-422/RS-485, 1.2km@9600bps
Multimode fiber	1310nm, 5Km
Single mode fiber	1310nm, 20km/40km 1310nm, 60km/80km
<b>Working Environment</b>	
Operating Temperature	-40°C~85°C

Storage temperature	-40°C~85°C
Ambient Humidity	5%~95%
<b>Warranty</b>	
Warranty	5 Years
<b>Certification</b>	
Certification	CE, FCC

## Ordering information

MWF501-D /S	<p>RS232/485/422 three-in-one terminal block interface, Fiber ring network self-healing type:</p> <ol style="list-style-type: none"> <li>1) Multi-mode 2Km/ Single-mode: 20Km;</li> <li>2) External supply DC9~30V;</li> <li>3) Standard PWRX5-12 (DC12V/5W) power adapter, aluminum alloy case desktop installation.</li> </ol>
MWF501-D /S-KG-DC12	<p>RS232/485/422 three-in-one terminal block interface, Fiber ring network self-healing type:</p> <ol style="list-style-type: none"> <li>1) Multi-mode: 2Km/ Single-mode: 20Km;</li> <li>2) Support DC12V (9 ~18V) isolated power supply;</li> <li>3) Aluminum alloy housing rail mounting.</li> </ol>