

## MWF501-F-KG

### RS232/485/422 Serial to Fiber Multi-Drop Ring Converter

#### Product description

MWF501-F 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 dual 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
Communication rate	
Baud rate	300bps~115.2Kbps, rate adaptive signal
LED	
Power indicator	POW
Master slave indicator	MAIN, SUB
Data transmission indicator light	LOOPA/B, TXA/B, RXA/B, TXD, RX
Power	
Power supply	MWF501-S/M-KG: DC12V(D9~18V) DC24V(DC18~36V) DC48V(DC36~72V) AC85~265V/DC110~370V
Interface	Industrial terminal block
Power	<5W (MWF501-S/M-KG)
Overload protection	Support
Lightning protection	600W/ms anti-lightning strike
Static protection	15kv anti-static
Physical characteristics	
Shell	IP40 protection, aluminum housing
Dimension	144mm×33mm×97mm
Transmission distance	
Serial port line	RS-232, 15m@9600bps RS-422/RS-485, 1.2km@9600bps
Multimode fiber	1310nm, 5Km
Single mode fiber	1310nm, 20km/40km; 1550nm, 60km/80km
Working environment	
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-M-KG-DC12	<ol style="list-style-type: none"> <li>1.Multi-mode: 2Km</li> <li>2.Support DC12V (9 ~18V) isolated power supply;</li> <li>3.Aluminum alloy case din-rail installation.</li> <li>4.SC,ST and FC connector are available.</li> </ol>
MWF501-S-KG-DC12	<ol style="list-style-type: none"> <li>1.Single-mode: 20Km;</li> <li>2.Support DC12V (9~18V) isolated power supply;</li> <li>3.Aluminum alloy case din-rail installation.</li> <li>4.SC,ST and FC connector are available.</li> </ol>
MWF501-M-KG-DC24	<ol style="list-style-type: none"> <li>1.Multi-mode: 2Km</li> <li>2.Support DC24V (18~36V) isolated power supply;</li> <li>3.Aluminum alloy case din-rail installation.</li> <li>4.SC,ST and FC connector are available.</li> </ol>
MWF501-M-KG-DC24	<ol style="list-style-type: none"> <li>1.Single-mode: 20Km;</li> <li>2.Support DC24V (18~36V) isolated power supply;</li> <li>3.Aluminum alloy case din-rail installation.</li> <li>4.SC,ST and FC connector are available.</li> </ol>
MWF501-M-KG-DC48	<ol style="list-style-type: none"> <li>1.Multi-mode: 2Km</li> <li>2.Support DC48V (36~72V) isolated power supply;</li> <li>3.Aluminum alloy case din-rail installation.</li> <li>4.SC,ST and FC connector are available.</li> </ol>
MWF501-S-KG-DC48	<ol style="list-style-type: none"> <li>1.Single-mode: 20Km;</li> <li>2.Support DC48V(36~72V) isolated power supply;</li> <li>3.Aluminum alloy case din-rail installation.</li> <li>4.SC,ST and FC connector are available.</li> </ol>
MWF501-M-KG-AD220	<ol style="list-style-type: none"> <li>1.Multi-mode: 2KM.</li> <li>2.Support AC220V(AC85-264V or DC110-370V)isolated power supply,</li> <li>3.Aluminum alloy case din-rail installation,</li> <li>4.SC,ST and FC connector are available.</li> </ol>

MWF501-S-KG-AD220

- 1.Single-mode: 20KM.
- 2.Support AC220V(AC85-264V or DC110-370V)isolated power supply,
- 3.Aluminum alloy case din-rail installation,
- 4.SC,ST and FC connector are available.