



1-port RS232/RS485/RS422 Over Fiber Converter, Din-Rail

➤ Features

- Support 1-port RS-232/RS-485/RS-422 to Fiber;
- Support EIA RS-232, RS-485, RS-422 Standard;
- Plug-and Play(hot-pluggable);
- ST/SC/FC fiber optic connectors optional;
- Fiber optic range up to 20KM;
- 600W surge protection;
- 15kv static protection(ESD);
- Signal flow is automatically identified and transparently transmitted;
- Imported optical transceiver module to ensure the transmission distance;
- The baud rate adapts without changing the user protocol;
- Industrial design, aluminum housing;
- Support DIN-Rail installation;
- Support DC5-30V or AC/DC 220V;
- Working temperature range:-40~85°C;
- Warranty:5years



➤ Introduction

MW80F is a rugged, industrial grade, multi-functional, Din-Rail RS-232/RS-485/RS-422 to single-mode fiber optic converter which can convert either full-duplex, half-duplex RS-485 or full-duplex RS-422 data up to 20km. The device is fully plug-and-play, no need for software drivers and enables the serial transmit and receive data signals.

MW80F is resistant to radio and electrical interference, such as EMI/RFI, transient surges and ground loops, built-in 600W surge protection, 15KV ESD and circuit protection, and it overcomes the limitations of conventional point-to-point fiber network and expands the serial data network in terms of distance, flexibility and reliability, widely used in various industrial controls, distributed data acquisition and other occasions, especially suitable for power system automation, traffic control and other departments.

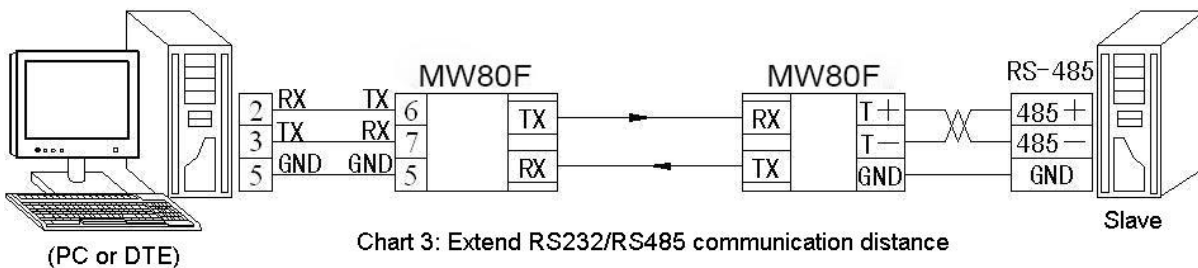
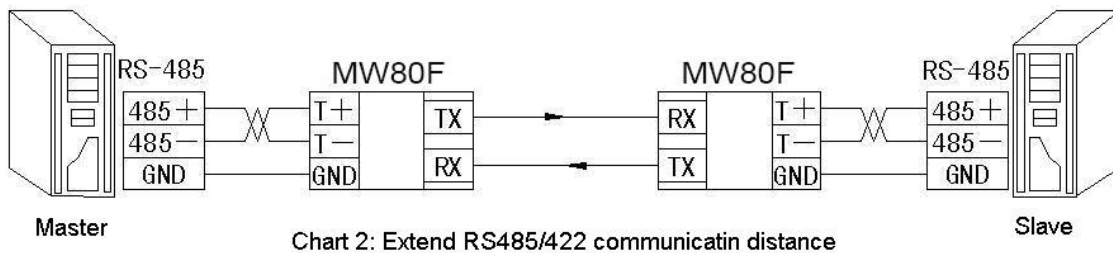
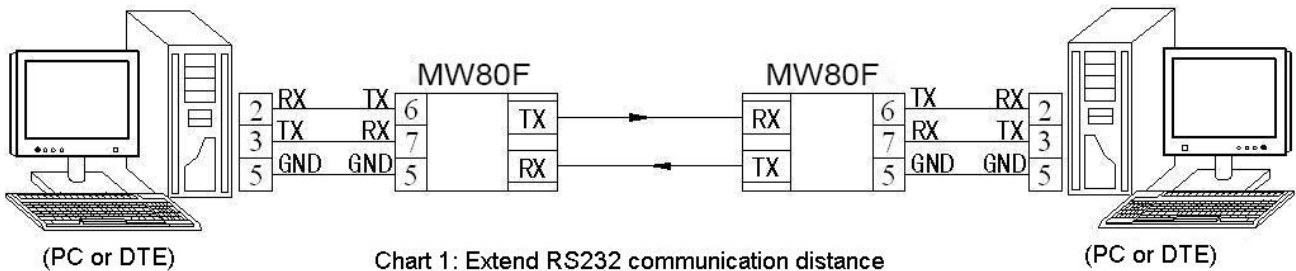
➤ Application Industries

- Industrial Automation
- Intelligent transportation supervisory system (ITS)
- High-speed Way supervisory/Tele-Communication System
- Long-distance broadcast television transmission system
- Security Surveillance
- Electric Power Industry
- Rail transportation industry

➤ Specification

| Technical parameters | |
|-----------------------------|---|
| Standard | Compliant with EIA RS-232, RS-485, RS-422 |
| Interface | Serial Port: Meet RS-232/RS-422/RS-485 Physical characteristics, 7 ways Industrial terminal block |
| | Optical interface: Single/multi-mode optional, SC/ST/FC connector optional |
| Baud Rate | 300bps~115.2Kbps, rate adaptive signal |
| LED Indicator | |
| Power indicator | POW |
| Data transmission indicator | TX, RX |
| Power | |
| Power Supply | DC5~30V |
| Interface | BNC coaxial input, industrial terminal block |
| Power | <1W |
| Overload protection | Support |
| Lightning protection | 600W |
| Static protection | 15KV |
| Physical Characteristics | |
| Shell | Aluminum housing |
| Dimension | 126mm×34mm×72mm(H*D*W) |
| Weight | 460g |
| Transmission distance | |
| Serial port line | RS-232, 15m@9600bps |
| | RS-422/RS-485, 1.2km@9600bps |
| Multi-mode fiber | 1310nm, 2Km |
| Single mode fiber | 1310nm, 20Km, 1550nm, 40km/60km/80km/100km |
| Working Environment | |
| Working Temp | -40~85°C |
| Storage Temp | -40~85°C |
| Relative Humidity | 5%~95% (no-condensation) |
| Warranty | |
| Warranty | 5 Years |
| Certification | CE, FCC, RoHS |

➤ Application



PIN Setting:

The RS232/485/422 signal port is 7 pins industrial terminal block, definition as below:

| Pin | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------------|---------------|----|----|----|-----|--------|-----|
| Definition | T+ | T- | R+ | R- | GND | TXD | RXD |
| Signal | RS-485/RS-422 | | | | | RS-232 | |

➤ Ordering Information

| Model NO. | Description |
|-----------|--|
| MW50F | 1-port RS232/RS485/RS422 Over Fiber Modem, single fiber,20km, DC5-30V |
| MW80F | 1-port RS232/RS485/RS422 Over Fiber Modem, single fiber,20km, DC5-30V or AC/DC 220V, Din-Rail |
| MWF501-D | 1-port RS232/RS485/RS422 Over Fiber Modem, single fiber,20km, DC12-48V, AC/DC 220V, Redundant Ring |

➤ Packing List

- RS232/RS485/RS422 Over Fiber Modem * 1
- User manual * 1
- Certificate of quality * 1
- Warranty card * 1