



## Serial to Fiber Converters

## MW40F Series

### ◆ RS-485/422 to Fiber Converter

#### ➤ Features

- Extend RS-485/422 transmission up to 120Km with single-mode
- Transmit asynchronously, point to point, speed reach 500Kbps
- Examine signal speed automatically, zero delay time
- Plug-and-Play(hot-pluggable, data format auto-sensing & self-adjusting)
- Power External 5VDC
- 600W surge protection, 15KV ESD protection

#### ➤ Introduction

MW40F is one kind can offer RS-485/422 serial port carry transparent optic fiber modem of transmission to get end to user, no need patch cords set up, switch over automatically, and can detect and examine the signal speed automatically, zero delays time to transmit automatically. MW40F adopt optic fiber transmit, have isolate protection, data privacy is fine, working steady, data, such threats to communication equipment as the wave is welled up and interfered with electromagnetically that the effective one has prevented the abominable environment from being struck by lightning, can work in the abominable and dangerous environment reliably.

Can be used in occasions such as various industrial control, course controlling, traffic controlling and intellectual district , especially suit the bank, electricity and interfering with environment department and system with the special requirement electromagnetically.

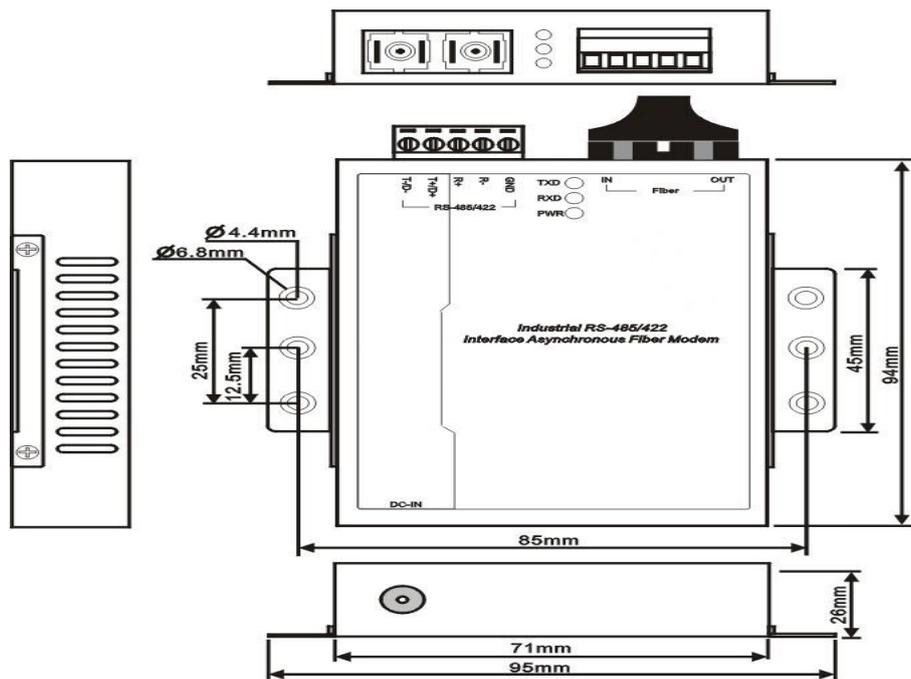
#### ➤ Specification

<b>Technology</b>	
Standards	EIA RS-485, RS422 standard
RS-422 signal	T+, T-, R+, R-, GND
RS-485 signal	D+, D-, GND
Working mode	Asynchronism, point to point or multi point, 2 wire half-duplex,4 wire full duplex
Baud rate	300~500Kbps, auto test serial signal rate detect signal speed automatically, zero delay time
Transfer distance	RS-485/422 side:1.2Km(9600bps)
Max number of drops	128 nodes(RS-485/422)
Port protect	600W surge protection,15KV ESD protection
<b>Optic Fiber</b>	
Connectors	SC, FC or ST, optional
Fiber optic cables	Single Mode:8.3/125,8.7/125,9/125 or 10/125 um,Muti-Mode:50/125,62.5/125 or 100/125 um
Transmission	20, 40,60,80, 120km(SM), 2 km(MM) optional
Wavelength	850nm,1310nm,1550nm
<b>Power</b>	
Power input	Power External 5VDC
Consumption	120mA
<b>Environment</b>	
Operating temperature	-10 ℃ to 60 ℃



Storage temperature	-40 °C to 85 °C
Humidity	5% to 95%(no condensation)
Appearance	
Dimensions	94.0×71.0×26.0mm(power external)
Material	Iron(shell)
Color	White
Weight	230g(power external), 260g(power internal)
Warranty	5 years
Approvals	FCC, CE, RoHS approvals

## ➤ Dimension



## ➤ Ordering Information

UPCOM Serial Converters

MW X X - X X X X

Fiber Port: SC ST

Distance: (10, 20, 40, 60, 80, 100, 120KM)

(D)---Dual (S)---Single

(M)--- MultiMode (S)---SingleMode

F: to Fiber

10: RS232  
20: RS422  
30: RS485  
40: RS485/422  
50: RS232/422/485  
C: CAN

Manufacturer

<b>Model NO.</b>	<b>Description</b>
MW40F-M	multi-mode, 2Km,5VDC, SC, FC or ST optional
MW40F-S-20	single-mode, 20Km, 5VDC, SC, FC or ST optional
MW40F-S-40	single-mode, 40Km, 5VDC, SC, FC or ST optional
MW40F-S-60	single-mode, 60Km, 5VDC, SC, FC or ST optional
MW40F-S-80	single-mode, 80Km, 5VDC, SC, FC or ST optional
MW40F-S-100	single-mode, 100Km, 5VDC, SC, FC or ST optional
MW40F-S-120	single-mode, 120Km, 5VDC, SC, FC or ST optional
MW40F-SS-20	single-mode, single fiber, 20Km,5VDC, SC, FC or ST, optional
MW40F-SS-40	single-mode, single fiber, 40Km, 5VDC, SC, FC or ST, optional
MW40F-SS-60	single-mode, single fiber, 60Km, 5VDC, SC, FC or ST, optional
MW40F-SS-80	single-mode, single fiber, 80Km, 5VDC, SC, FC or ST, optional

### ➤ **Packing List**

- MW40F series Fiber Converter×1
- 5VDC power adapter × 1(for power external fiber converter)
- User manual ×1