RS-232/RS-485/RS-422 Converters   MW1040-I-5V

◆ Industrial Isolation RS-232/485/422 Converter and Repeater

➢ Features

- Support two RS-232 and RS-485 PC interfaces , and 4 RS-485 lower position controller ports
- Support baud rate from 300bps to 115200bps
- Each lower machine interface can be connected to 32 standard RS-485 devices(nodes)
- Unique automatic circuit reverse alarm detection
- Have automatic transceiver conversion function with zero delay
- Support hot swap function, plug and play
- Interface has 2KVAC isolation protection, 8KV ESD protection (contact discharge) and 2-stage radiation immunity
- Industrial design, IP40 protection
- Support DIN-Rail and wall mounting installation
- Working Temperature: -40~85℃

➢ Introduction

MW1040-I-5V is a RS-485 bus segmentation HUB, specially designed for conforming to RS-485's large-scale system requirements under the complex electromagnetic environment. Its supporting transmission rates reach up to 115.2Kbps. It adopts transparent transmission in both directions. It can convert 1 RS-485 or RS-232 to 4 RS-485, or transparently transmit any intersected RS-485 signal to RS-485 or RS-232 on PC. Each RS-485 port of its lower position controller has reverse fault alarm and protection function, through which,the network reliability of RS-485 has been improved, and the maintenance time of network has been shortened efficiently.

In order to ensure the safety and reliability of data communication, the RS-485 interfaces of MW1040-I-5V are supplied with 2KVAC isolation protection, 3 levels of ESD protection and 2 levels of electrostatic radiation protection; they can prevent lighting, common ground and radiated interference, safe and reliable, are suitable for outdoor application.

MW1040-I-5V also provide star-RS485 BUS connection. Users can easily improve the RS-485 BUS structure, split network segment. You can design a unique and reliable RS-485 system through making reasonable use of SW4485.
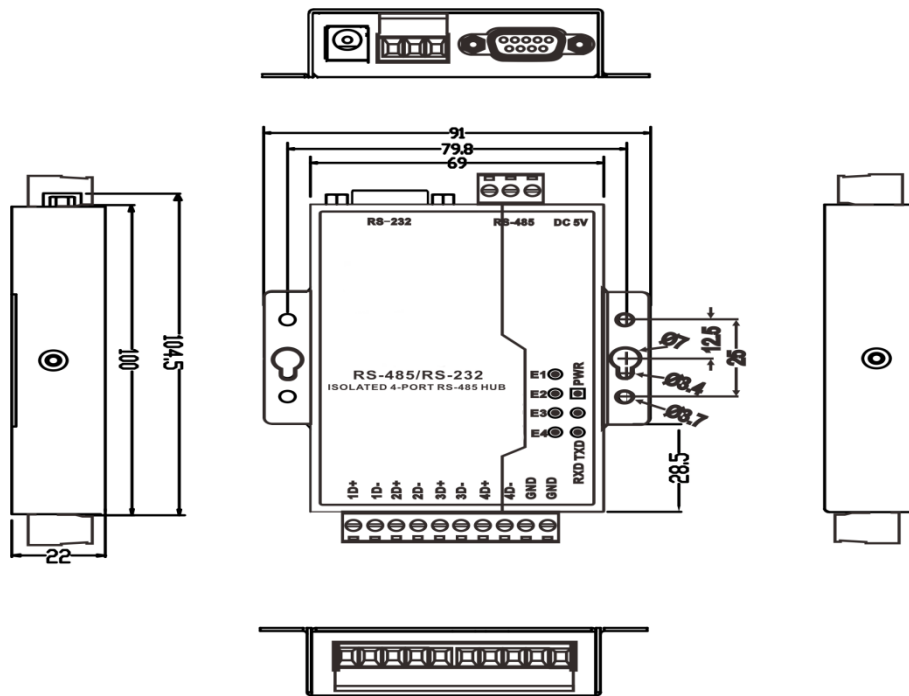
MW1040-I-5V adopts EMC protection design, supports wall-mounting and panel-mounting installation, and can be used at the harsh environment from -40℃ to 85℃.

➢ Specification

Communication Parameter	
Interface Protocol	EIA RS-2332/485
Interface Number	1x RS-232,1xRS-485,4x RS-485 lower position controller interfaces
RS-232 signal	TxD, RxD, GND
RS-485 signal	D+, D-, GND
Check	None, Even, Odd, Space, Mark
Data Bit	5bit, 6bit, 7bit, 8bit
Stop Bit	1bit, 1.5bit, 2bit

Baud Rate	300bps~115200bps
Direction Control	RS-485 adopts data flow to automatic control technology
Transmission Media	twisted-pair shielded cable or UTP 485 dedicated line
Load Capacity	RS-485:32-node(can be customized 128 nodes)
Port Protection	2KVAC isolation protection, 3 levels of ESD protection, 2 levels of electrostatic radiation rotection
Transmission Distance	
RS-485	1200m,
RS-232	no more than 5m
Interface mode	
RS-232 PC port mode	DB9M Male
RS-485 PC port mode	3PIN terminal block
RS-485 Lower Position Controller port mode	10 PIN terminal block
Indicator	
PWR	power indicator
TXD	data delivery status indicator
RXD	data receiving status indicator
E1~E4	status indicator of RS-485 lower position controller interface
Power	
Input	5VDC
No-load Power	0.455W@5VDC
Full Power	0.485W@5VDC
Mechanical Structure	
Shell	IP40 protection grade, high-strength metal casing
Installation	Wall-mount and Panel-mount
Weight	250.8g
Size	22mm×69mm×100mm
Working Environment	
Working Temperature	-40~85℃
Storage Temperature	-40~85℃
Humidity	5%~95%(no condensation)
Industry Standard	
EMI	FCC Part 15, CISPR(EN55022) class A
EMS	EN61000-4-2(ESD), Lece3
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Shake	IEC60068-2-6
Warranty Period	5 years
Approvals	CE, FCC, RoHS,UL508(Pending)

➢ Dimension

➢ Ordering Information

➢ Packing List

● MW1040-I-5V ×1

● User manual ×1