

# ISC-1210U-I / 1310U-I



ISC-1210U-I



ISC-1310U-I

## Industrial 1-port USB to 1-port serial media converter with 2KV isolation

### Features

- Fully compliant with USB specification 1.1
- Support Full-Duplex transmission for RS-232/RS-422
- RS-232 support RTS/CTS handshake signals
- RS-422 support RTS/CTS handshake signals
- Transient suppression on RS-485 data lines
- Auto detect and switching for USB to RS-232/422/485
- Auto detect and switching baud rate up to 115.2Kbps
- USB bus powered with Ultra low power consumption
- DIN-Rail and wall mounting enabled



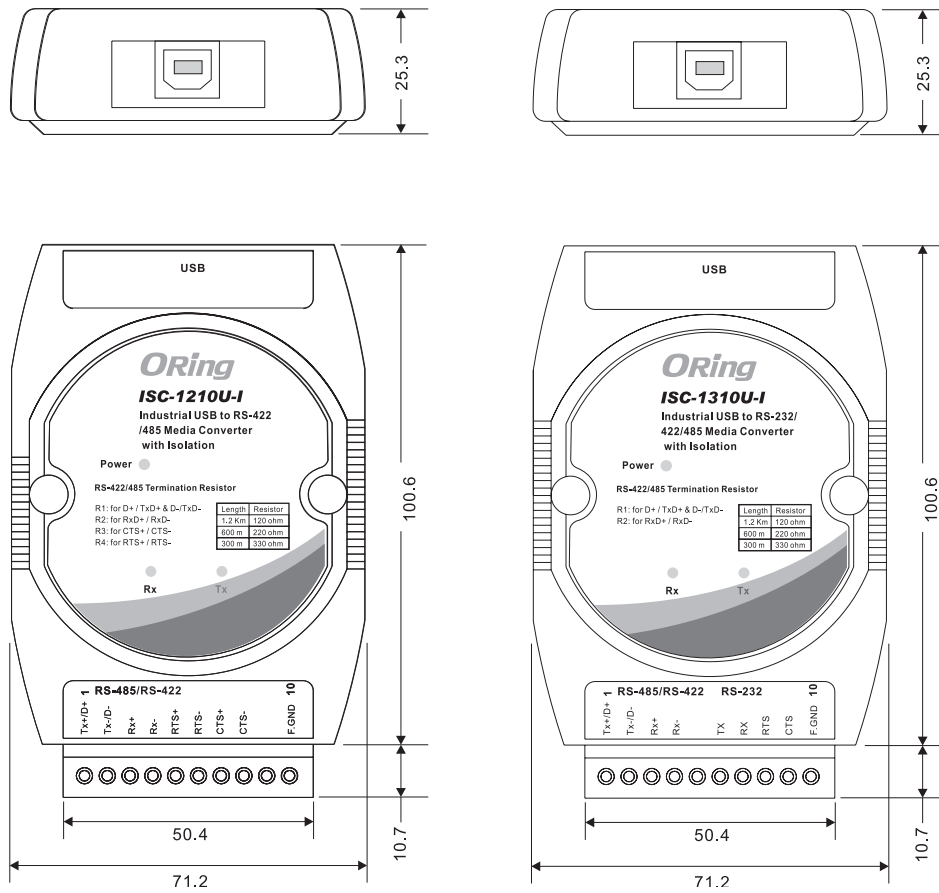
### Introduction

The ISC-1210U-I / ISC-1310U-I convert is an intelligent, stackable expansion module that connects to a PC USB port or USB Hub via the Universal Serial Bus(USB) port, providing one High-Speed RS-232/RS-422 or RS-485 serial port (jumper-less). The ISC-1210U-I / ISC-1310U-I features easy connectivity for traditional serial devices. The RS-232 standard supports full-duplex communication and handshaking signals (such as RTS, CTS) and The RS-485 control is completely transparent to the user and software written for half-duplex operation without any modification. The ISC-1210U-I / ISC-1310U-I's Opto-isolators provide 2000 VDC of isolation to protect the host computer from destructive voltage spikes on the RS-232/RS-422 and RS-485 data lines. ISC-1210U-I / ISC-1310U-I also offer internal surge-protection on their data lines. The internal high-speed transient suppressors on each data line protect the modules from dangerous voltages levels or spikes. In addition, the ISC-1210U-I / ISC-1310U-I module derives the power from USB port and doesn't need any aid of external power adapter.



Connections of Media converter

## Dimensions



(Unit=mm)

## Specifications

ORing Media Converter Model	ISC-1210U-I	ISC-1310U-I
<b>Physical Ports</b>		
USB V1.1 Port	1	1
Serial Port	RS-422/485	RS-232/422/485
Serial Connector	10-pin terminal block	
Baud Rate	300 to 115.2Kbps	
Signals	RS-422 : TX+, TX-, RX+, RX-, RTS+, RTS-, CTS+, CTS-, GND RS-485 : Data+, Data-, GND	RS-232 : TX, RX, RTS, CTS, GND RS-422 : TX+, TX-, RX+, RX-, GND RS-485 : Data+, Data-, GND
<b>LED Indicators</b>		
Power Indicator	Green : Power LED x 1	
TxD Indicator	Green LED x 1	
RxD Indicator	Red LED x 1	
<b>Power</b>		
Input Power	From USB bus power (self power)	
Power Consumption (Typ.)	0.65 Watts	
<b>Protection</b>		
Isolation	2000 VDC	

Driver Support	
O.S.	Windows CE/2K/XP/XPE/Vista
Physical Characteristics	
Enclosure	IP-30
Dimensions (W x D x H)	71.2(W) x 25.3(D) x 100.6(H) mm (2.8x1x3.96 inch.)
Weight (g)	130 g
Environmental	
Storage Temperature	-25 to 85°C (-13 to 185°F)
Operating Temperature	-10 to 70°C (14 to 158°F)
Operating Humidity	5% to 95% Non-condensing
Regulatory Approvals	
EMC	CE EMC (EN 55024, EN 55032), FCC Part 15 B
EMI	EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B Class A
EMS	EN 55024 (IEC/EN 61000-4-2 (ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000-4-4 (EFT), IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8(PFMF), IEC/EN 61000-4-11(DIP))
Shock	IEC60068-2-27
Free Fall	IEC60068-2-31
Vibration	IEC60068-2-6
MTBF	2323403 hrs 2384275 hrs
Warranty	2 years

### Ordering Information

ISC-**A****B****C****D****E**-**F**

Code Definition	Serial Port Number	Port Type	Converter Prot Number	Converter Type	Other Type	Additional Function
<b>Option</b>	- <b>1</b> : 1port	- <b>1</b> : RS-232 - <b>2</b> : RS-422/485 - <b>3</b> : RS-232/422/485	- <b>1</b> : 1port	- <b>0</b> : other type - <b>1</b> : RS-232 - <b>2</b> : RS-422/485 - <b>3</b> : RS-232/422/485	- <b>F</b> : 100Base-FX Fiber - <b>U</b> : USB	- <b>I</b> : Isolation

	Model Name	Description
Available Model	ISC-1210U-I	Industrial 1-port USB to 1-port RS-422/485 serial media converter with 2KV isolation
	ISC-1310U-I	Industrial 1-port USB to 1-port RS-232/422/485 serial media converter with 2KV isolation

**Packing List**

- ISC-1210U-I/1310U-I x 1
- DIN-Rail Kit x 1
- ORing Tool CD x 1
- Wall-mount Kit x 1
- Quick Installation Guide x 1
- USB cable x 1

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