# ISC-1212-I



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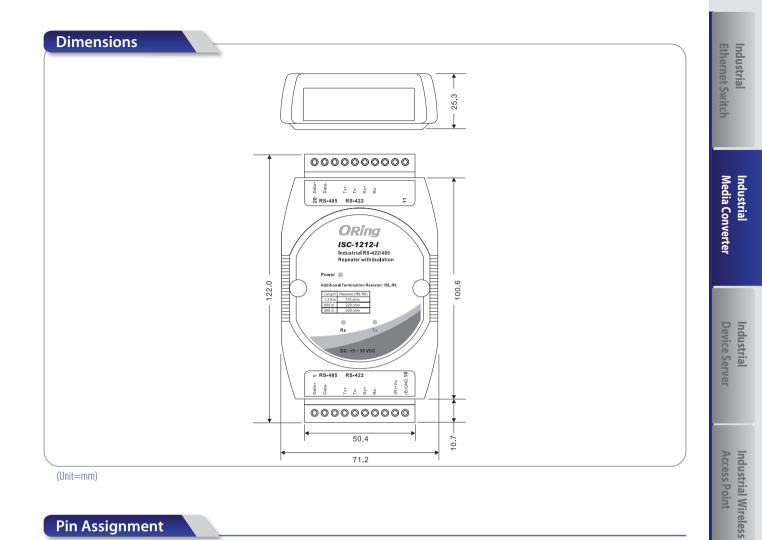
### Introduction

Industrial Media Converter

The ISC-1212-I is a RS-422/485 repeater which boosts the RS-422/485 signals to extend the reach distance up to 4000 ft (1200m) and increase the maximum number of connection up to 128 nodes. With a special circuitry, ISC-1212-I is able to automatically detect the data flow and switch the direction of the data lines accordingly. "Auto baud rate detector" enables ISC-1212-I to automatically configure RS-422/485 signals to any baud rate without external switch setting. Build in opto-isolations on ISC-1212-I provides 3000VDC of isolation to protect the host computer from destructive voltage spikes on the RS-422/485 data lines. ISC-1212-I also offers internal surge-protection on the data lines. The internal high-speed transient suppressors on each data line protect the module from dangerous voltages levels or spikes. Therefore, the ISC-1212-I is a reliable RS-422/485 repeater and can satisfy most demand of operating environment.



Connections of RS-422/485 Repeater



### **Pin Assignment**

Inputs RS-422/485 Terminal Block Pin Assignment										
Interface	RS-485		Reserved	RS-422				Reserved	Power Input	
Pin No.	1	2	3	4	5	6	7	8	9	10
Info	Data+	Data-	N.C.	TX+	TX-	RX+	RX-	N.C.	V+	GND

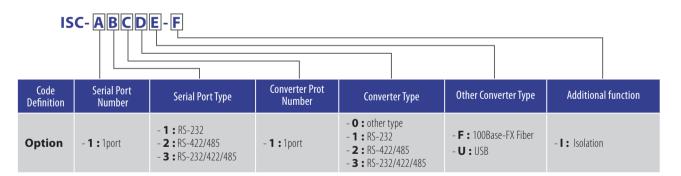
Outputs RS-422/485 Terminal Block Pin Assignment										
Interface	RS-485		Reserved		RS-	422	Reserved			
Pin No.	20	19	18	17	16	15	14	13	12	11
Info	Data+	Data-	N.C.	TX+	TX-	RX+	RX-	N.C.		

# Specifications

ORing Media Converter Model	ISC-1212-I				
Physical Ports					
RS-422/485 Connector	10-pin terminal block				
RS-422/485 Signals	RS-422 : TX+, TX-, RX+, RX- RS-485 : Data+, Data-				
Baud Rate	300 ~ 115.2 Kbps				
Data bit	5, 6, 7, 8				
Stop bit	1, 1.5, 2				

Parity	None, Even, Odd, Space, Mark		
Flow Control	XON/XOFF(software) Auto Hardware Direction Control for RS-485		
LED Indicators			
Power Indicator	Green : Power LED x 1		
TxD Indicator	Green LED x 1		
RxD Indicator	Red LED x 1		
Power			
Input Power	+9 ~ 30 VDC power inputs on 10-pin terminal block		
Power Consumption (Typ.)	0.7 Watts		
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)	130g		
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			
EMI	FCC Part 15, CISPR (EN55022) class A		
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11		
Shock	IEC60068-2-27		
Free Fall	IEC60068-2-32		
Vibration	IEC60068-2-6		
Warranty	2 years		

# **Ordering Information**



Available	Model Name	Description
Model ISC-1212-I		Industrial RS-422/485 repeater with 3KV isolation
Packing Lis • ISC-1212-I • DIN-Rail Kit • Wall-Moun • Quick Instal	t t Kit	Optional Accessories (Can be purchased separately) <ul> <li>DR-45 series, 45W DIN-Rail power supply</li> <li>DR-75-12, 12V/75W DIN-Rail power supply</li> <li>DR-75-24, 24V/75W DIN-Rail power supply</li> </ul>