4-4

I-7520

Isolated RS-232 to RS-485 Converter

I-7520A

Isolated RS-232 to RS-422/485 Converter

I-7520R

RS-232 to Isolated RS-485 Converter

I-7520AR

RS-232 to Isolated RS-422/485 Converter





Features >>>>

- Automatic RS-485 Direction Control
- ESD Protection for the RS-232/422/485 Data Line
- Power Input, +10 ~ +30 V_{DC}
- DIN-Rail

- 3000 V_{DC} Isolation Protection on the RS-485 side
- Transmission Speed of up to 115200 bps
- Operating Temperatures, -25 °C ~ +75 °C

Introduction

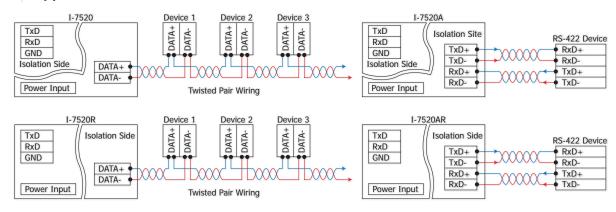
Most industrial computer systems provide standard RS-232 serial ports. Though widely accepted, RS-232 has limited transmission speed, range, and networking capabilities. The RS-422 and RS-485 standards overcome these limitations by using differential voltage lines for data and control signals, which transparently converts RS-232 signals into isolated RS-422 or RS-485 signal with no need to change any hardware or software. The I-7520/I-7520A lets you easily build an industrial grade, long-distance communication system using standard PC hardware.

The design of the isolation between the I-7520 and the I-7520R/AR is different. If the user wants to supply power from the PLC/PC, the I-7520R/AR should be used, otherwise the isolation will be broken. Refer to the I-7000 bus converter manual for detailed information.

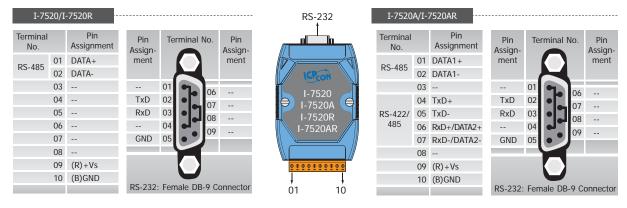
System Specifications

Models		I-7520	I-7520R	I-7520A	I-7520AR	
Interface						
Serial Interface	RS-232	TxD, RxD, GND				
	RS-422	-		TxD+, TxD-, RxD+, RxD- The RS-422 and RS-485 cannot be used simultaneously		
	RS-485	Data+, Data-				
Transfer Distance		Max. 1,200 m at 9.6 kbps; Max. 400 m at 115.2 kbps (Belden 9841 2P twisted-pair cable, if different cables are used, the transmission distance may change)				
Self-Tuner Asic Inside		Yes				
Speed		300 ~ 115200 bps				
ESD Protection		Yes				
3000 VDC Isolated	Voltage	on RS-232 side	on RS-485 side	on RS-232 side	on RS-485 side	
Connection	RS-232	9-Pin Female D-Sub				
Connection	RS-422/485	Removable 10-Pin Terminal Block				
LED Indicators						
Power/Communication		Yes				
Power						
Input Voltage Range		+10 Vpc ~ +30 Vpc (Non-isolated)				
Power Consumption		1.2 W				
Mechanical						
Casing		Plastic				
Flammability		Fire-Retardant Materials (UL94-V0 Level)				
Dimensions (W x H x D)		72 mm x 118 mm x 35 mm				
Installation		DIN-Rai				
Environment						
Operating Temperature		-25 °C ~ +75 °C				
Storage Temperature		-30 °C ~ +75 °C				
Humidity		10 ~ 90% RH, non-condensing				

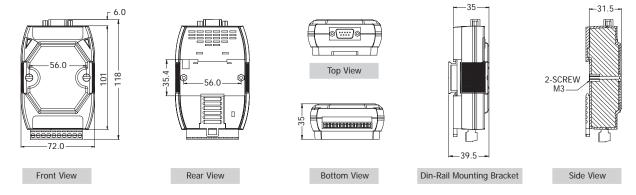




Pin Assignments



Dimensions (Unit: mm)



Ordering Information

I-7520 CR	Isolated RS-232 to RS-485 Converter (RoHS)	
I-7520A CR	IsolIsolated RS-232 to RS-422/485 Converter (RoHS)	
I-7520-G CR	Isolated RS-232 to RS-485 Converter (Gray Cover) (RoHS)	
I-7520A-G CR	Isolated RS-232 to RS-422/485 Converter (Gray Cover) (RoHS)	
I-7520R CR	RS-232 to Isolated RS-485 Converter (RoHS)	
I-7520AR CR	RS-232 to Isolated RS-422/485 Converter (RoHS)	
I-7520R-G CR	RS-232 to Isolated RS-485 Converter (Gray Cover) (RoHS)	
I-7520AR-G CR	RS-232 to Isolated RS-422/485 Converter (Gray Cover) (RoHS)	

- Accessories

GPSU06U-6	24 Vbc/0.25 A, 6 W Power Supply	
DIN-KA52F	24 Vpc/1.04 A, 25 W Power Supply with Din-Rail Mounting	
I-7510 CR	Isolated RS-485 Repeater (RoHS)	
I-7510A CR	Isolated RS-422/485 Repeater (RoHS)	
CA-0915	9-Pin Male-Female D-Sub Cable, 1.5 m	

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