RS-232/RS-422/485 Converters





I-7520/I-7520A I-7520R/I-7520AR

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











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.

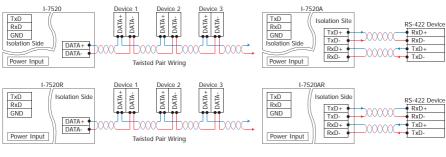
The design of the isolation between the I-7520 and the I-7520R/AR is different. If the user wants to supply power from the PLC/PC, the I-7520R/AR should be used, otherwise the isolation will be broken. Refer to the I-7000 bus converter manual for detailed information.

Specifications -

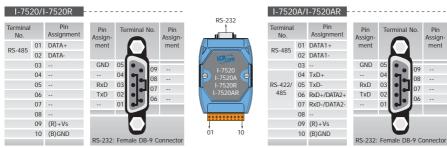
Models		I-7520	I-7520R	I-7520A	I-7520AR	
Interface						
Serial Interface	RS-232	TxD, RxD, GND				
	RS-422	TxD+, TxD-, RxD+, RxD-				
					The RS-422 and RS-485 cannot be used simultaneously	
	RS-485	Data+, Data-				
2-wire Cabling/4-wire Cabling		Belden 8941 (2P twisted-pair cable)/Belden 8942 (4P twisted-pair cable), if different cables are used,				
		the transmission distance may change				
Transfer Distance		Max. 1,200 m for at speed 9.6 kbps; Max. 400 m at 115.2 kbps				
Max. Devices Supported		256 (Without repeater)				
Self-Tuner Asic Inside		Yes				
Speed		300 ~ 115200 bps				
ESD Protection		Yes				
3000 Vpc 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				
	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-Rail				
Environment						
Operating Temperature		-25 °C ~ +75 °C				
Storage Temperature		-30 °C ~ +75 °C				
Humidity		10 ~ 90% RH, non-condensing				



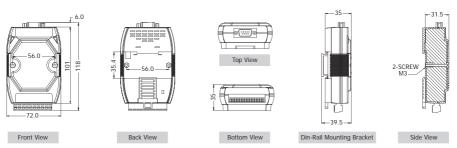




Pin Assignments -



■ Dimensions (Unit: mm) _



Ordering Information _

Isolated RS-232 to RS-485 Converter (RoHS)
Isolated RS-232 to RS-422/485 Converter (RoHS)
Isolated RS-232 to RS-485 Converter (Gray Cover) (RoHS)
Isolated RS-232 to RS-422/485 Converter (Gray Cover) (RoHS)
RS-232 to Isolated RS-485 Converter (RoHS)
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Accessories _

24 Vpc/0.25 A, 6 W Power Supply			
24 V∞/1.04 A, 25 W Power Supply with Din-Rail Mounting			
Isolated RS-485 Repeater (RoHS)			
Isolated RS-422/485 Repeater (RoHS)			
9-Pin Male-Female D-Sub Cable, 1.5 m			