

RS-485 Star Wiring Hub



I-7520U4 Isolated RS-232 to 4 Channels RS-485 Active Hub

Features
■ True RS-485 Star Wiring Hub
■ Independent RS-485 driver for each channel
■ LEDs for indicating TxD/RxD activity
Self-Tuner baud rate, 300 ~ 115200 bps and fixed baud rate setting
via rotary switch, 1200 ~ 115200 bps
■ 120Ω termination resistor for each channel
■ Power Input, +10 ~ +30 V _{DC}
■ Operating Temperatures, -25 °C ~ +75 °C
■ DIN-Rail
CE FC ROHS Z

■ Introduction -

The I-7520U4 is isolated RS-232 to 4-ch RS-485 active star wiring hub, it has 4 independent RS-485 output channels and one RS-232 input channel. Each output channel is equipped with an individual driver. The data from a master to the input channel will simultaneously be forwarded to all the four output channels.

The I-7520U4 provides 2 modes of baud rate setting, one is Self-Tuner mode and the other is fixed baud rate mode. The Self-Tuner mode can support Multiple Baud Rate and Multiple Data Format. The Self-Tuner design is exactly the same as I-7520 series.

The Fixed baud rate mode offers a better quality for data transmission over long or lossy lines or electrically noisy environments.

RS-485 Short-Circuit

The Short-circuit protection can automatically shut off the breakdown channel, this kind of design can suffice to protect the communication system. When a connected RS-485 equipment breaks down, the breakdown channel will be isolated to ensure that other equipments work normally.

Termination resistors

In some critical environments, you may need to add termination resistors to prevent the reflection of serial signals.

The I-7520U4 includes a 120Ω termination resistor for each channel by jumper selectable (Default disable).

LED Indicators

The I-7520U4 has 6 LED to indicate the power status and network traffic.

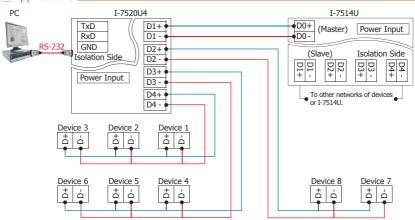
The TxD/RxD LED will flash when the unit is being sent out or received data.

Specifications _

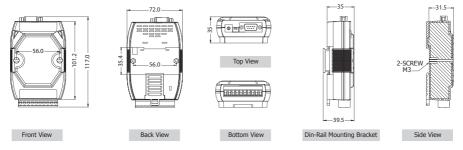
Interface			
Input	1 RS-232 Channel: TxD, RxD and GND		
Output	4 RS-485 Channels: Data+, Data-		
2-wire Cabling	Belden 8941 (2P twisted-pair cable), if different cables are used, the transmission distance may change		
Transfer Distance	Max. 1,200 m at 9.6 kbps; Max. 400 m at 115.2 kbps		
Max. Devices Supported	256 (Each channel)		
Self-Tuner Asic Inside	Yes		
Speed	300 ~ 115200 bps via Self-Tuner mode; 1200 ~ 115200 bps via Fixed Baud Rate mode		
ESD Protection	Yes		
2500 V _{DC} isolation on RS-232	Yes		
Connection	Removable 10-Pin Terminal Block x 1; 9-Pin Female D-Sub x 1		
LED Indicators			
Power/Communication	Yes		
Power			
Input Voltage Range	+10 V _{DC} ~ +30 V _{DC} (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 ~ +80 °C		
Humidity	10 ~ 90% RH, non-condensing		



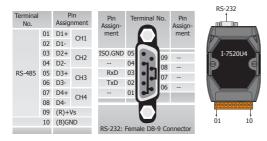
Applications _____



■ Dimensions (Unit: mm) _



☑ Pin Assignments _



Ordering Information

I	Art.No. 123538	Isolated RS-232 to 4 Channels RS-485 Active Hub (Gray Cover) (RoHS)
ı	I-7520U4-G-CR	with CA-0915 cable x 1

Accessories —

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