

### I-7520U4

Isolated RS-232 to 4 Channels RS-485 Active Star .....











## Features >>>>

- True RS-485 Star Wiring Hub
- Power and data flow indicator for troubleshooting
- Easy-to-use rotary switch for fixed baud rate setting, 1200 ~ 115200 bps
- Power Input, +10 ~ +30 V<sub>DC</sub>

- Independent RS-485 driver for each channel
- Automatic RS-485 Direction Control
- $\blacksquare$  120 Ω termination resistor for each channel
- Operating Temperatures, -25 °C ~ +75 °C
- DIN-Rail Mounting

### Introduction RS-485 Active Hub

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

### **Baud Rate Setting**

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 jumperselectable  $120\Omega$  termination resistor for each channel (Default disable).

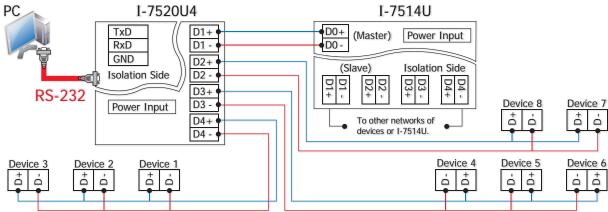
### **LED Indicators**

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.

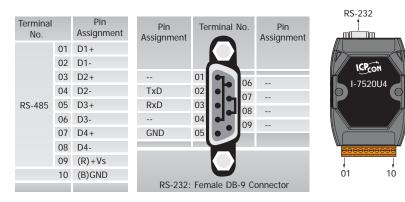
## System Specifications

Interface		
Input	1 RS-232 Channel: TxD, RxD and GND	
Output	4 RS-485 Channels: Data+, Data-	
Transmission 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 via Self-Tuner mode; 1200 ~ 115200 bps via Fixed Baud Rate mode	
ESD Protection	Yes	
2500 V <sub>DC</sub> Isolation on RS-232	Yes	
Connector	Removable 10-Pin Terminal Block x 1; 9-Pin Female D-Sub x 1	
LED Indicators		
Power/Communication	Yes	
Power		
Input Voltage Range	+10 Vpc ~ +30 Vpc (Non-isolated)	
Power Consumption	1.2 W	
Mechanical		
Casing	Plastic	
Dimensions (W x H x D)	72 mm x 118 mm x 35 mm	
Installation	DIN-Rail Mounting	
Environment		
Operating Temperature	-25 °C ~ +75 °C	
Storage Temperature	-30 °C ~ +75 °C	
Humidity	10 ~ 90% RH, non-condensing	

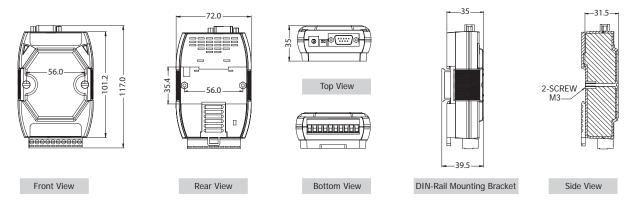




# Pin Assignments



# - Dimensions (Units: mm)



# Ordering Information

I-7520U4-G CR	Isolated RS-232 to 4 Channels RS-485 Active Hub (Gray Cover) (RoHS)
I-7520U4-CA-G CR	I-7520U4-G CR with CA-0915 cable x 1

# **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)
CA-0915	9-Pin Male-Female D-Sub Cable, 1.5 m