4.3. RS-485 Star Wiring Hub



Three Way Isolated RS-485 Active Star Wiring Hub

Features

- RS-485 Active Star Wiring Applications
- Auto Switching Baud Rate, 300 ~ 115200 bps
- 3000 V_{DC} Three Way Isolation Protection
- ESD Protection for the RS-485 Data Line
- Power Input, +10 ~ +30 V_{DC} Operating Temperatures, -25 °C ~ +75 °C
- DIN-Rail





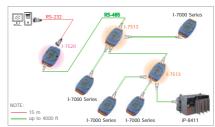
Introduction_

The I-7513 is a 3-ch RS-485 Active Star Wiring Hub. The unit has three independent RS-485 output channels, each with their own driver, which can transmit signals across 4,000 ft (1200 m) of cable on each channel.

The I-7513 includes both Hub and Repeater functions, so each output channel can be connected to another hub.

The isolation site of the I-7513 is located in the input and output interface circuit. In other words, the I-7513 is a three-way isolation module.

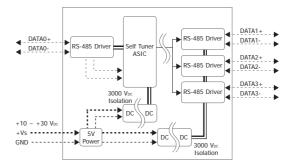
Applications.



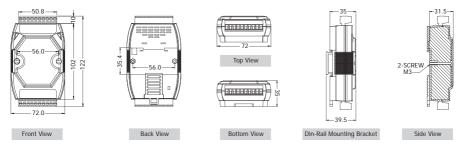
■ Specifications _

Interface				
Input	1 RS-485 Channel: Data+, Data-			
Output	3 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			
ESD Protection	Yes			
3000 Vpc Three Way Isolated Protection	Yes			
Connection	Removable 10-Pin Terminal Block x 2			
LED Indicators				
Power/Communication	Yes			
Power				
Input Voltage Range	+10 Vpc ~ +30 Vpc (Non-isolated)			
Power Consumption	2.16 W			
Mechanical				
Casing	Plastic			
Flammability	Fire Retardant Materials (UL94-V0 Level)			
Dimensions (W x H x D)	72 mm x 122 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			

Internal I/O Structure _____



☑ Dimensions (Unit: mm) _____



Pin Assignments _____

Terminal No.	Pin Assignment	20	11	Terminal No.	Pin Assignment
01	DATA+	00000		20	DATA1+
02	DATA-		-	19	DATA1-
03		10%	no:	18	
04		1-75	513	17	
05				16	
06			/	15	DATA2+
07			/	14	DATA2-
08		\\	-	13	
09	(R)+Vs	0.0000	9 9 9 9 9	12	DATA3+
10	(B)GND	01	10	11	DATA3-
		UI	10		

Ordering Information

I-7513 CR	Three Way Isolated RS-485 Active Star Wiring Hub (RoHS)
I-7513-G CR	Three Way Isolated RS-485 Active Star Wiring Hub (Gray Cover) (RoHS)

Accessories _____

GPSU06U-6	24 Vbc/0.25 A, 6 W Power Supply
DIN-KA52F	24 Voc/1.04 A, 25 W Power Supply with Din-Rail Mounting