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 Voc 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



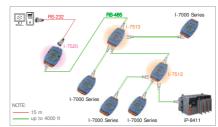
■Introduction -

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.

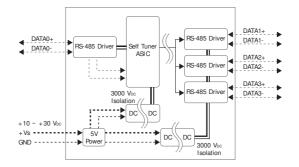
Applications.



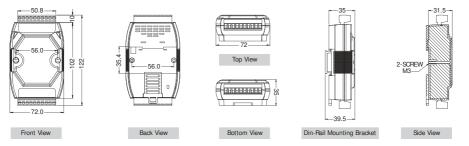
Specifications _

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 V _{bc} Three Way Isolated Protection	Yes		
Connection	Removable 10-Pin Terminal Block x 2		
LED Indicators			
Power/Communication	Power/Communication Yes		
Power			
Input Voltage Range	+10 Voc ~ +30 Voc (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	perature -30 °C ~ +75 °C		
Humidity	10 ~ 90% RH, non-condensing		

Internal I/O Structure _____



☑ Dimensions (Unit: mm) _____



Pin Assignments _____

	Assignment	1	11	Terminal No.	Pin Assignment
01 D	DATA+	//		20	DATA1+
02 D	DATA-		- di	19	DATA1-
03	-	1CPcot		18	
04		I-7513		17	
05	-	9)		16	
06	-		/	15	DATA2+
07	- /		_// }}	14	DATA2-
08	- \	\(\(\)	$\square /\!\!/$	13	
09 (F	R)+Vs	0000000	9 9 9	12	DATA3+
10 (E	B)GND	01	10	11	DATA3-

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 Hul (Gray Cover) (RoHS)	

Accessories -

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