

RS-485 Hub Module



Introduction —

RS-485 Active Hub with power supply function

The LC-485 is a 4-ch RS-485 active star wiring hub with power supply function. It has 4 independent RS-485 output channels and one RS-485 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, and can supply power.

The total power consumption of the LC-485 device plus all devices on the four output channels must be less than the power of the input power supply, and the total consumption of all devices

on the four output channels must be less than 1 A. The power consumptions of the LC/ SC series modules for 24 V and 12 V currents are shown in the list.

Model	24 V	12 V
LC-101/LC-103	0.02 A	0.04 A
LC-131	0.04 A	0.07 A
LC-221	0.06 A	0.18 A
LC-485	0.06 A	0.11 A
SC-4104-W1	0.1 A	0.2 A

RS-485 Short-Circuit protection

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

Features

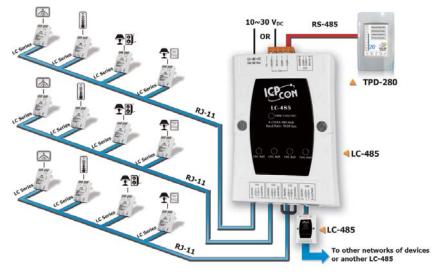
- True RS-485 Star Wiring Hub with power supply function
- Independent RS-485 driver for each channel
- LEDs for indicating RS-485 TxD/RxD activity
- Auto Switching baud rate: 1200 ~ 115200 bps
- RS-485 Short-Circuit protection
- Power Input: +10 ~ +30 VDC
- Operating Temperatures: -25 ° C ~ +75 ° C
- DIN-Rail Mounting



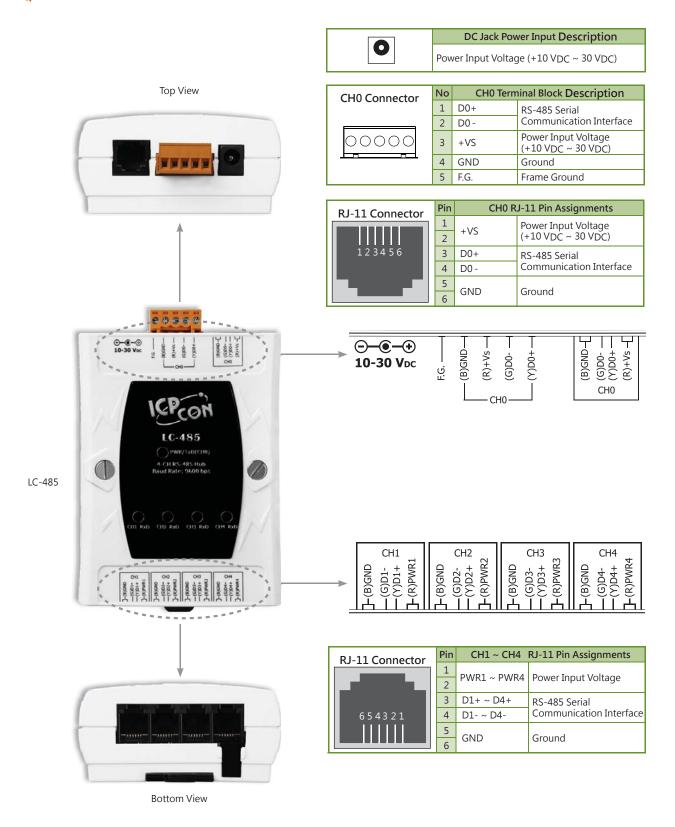
Specifications _

Interface		
Input	1 RS-485 Channels: Data+, Data-	
Output	4 RS-485 Channels: Data+, Data-	
Connector	RJ-11	
Speed	1200 ~ 115200 bps	
4 kV ESD Protection	Yes	
LED Indicators		
LED	Yes; Power/Communication (TxD/RxD)	
Power		
Туре	Connector: RJ-11, DC Jack, screw terminal	
Input Voltage Range	10 ~ 30 VDC	
Output Voltage Limit	10 ~ 30 VDC, Max. 1 A	
Power consumption	1.3 W	
Power reverse polarity protection	Yes	
Mechanical		
Casing	Plastic (Flammability UL 94V-0)	
Dimensions (W x H x D)	76 mm x 116 mm x 37 mm	
Installation	DIN-Rail	
Environmental		
Operating Temperature	-25 ° C ~ +75 ° C	
Storage Temperature	-30 ° C ~ +80 ° C	
Humidity	10% ~ 90% RH, non-condensing	

Applications



(6) Power and Communication





LC-485 CR 4 Channels RS-485 Active Hub (RoHS)

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