SC-232-B	Global Connectivity			
RS232 to RS485 Opto-isolation Converter	Order online or call 1-800-343-1455 L-com.com			

Product Overview

L-Com's SC-232-B features optical isolation to protect your valuable communications equipment from ground loops. Both RS232 and RS485 sides are powered by an external power supply (sold separately).

Main functions

Optic isolation between the RS232 and RS485 signals
Plug and play support
Transmits automatically, CTS flow control is not required

• Specifications

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Power Supply	Uses 5VDC external power, sold separately					
Working Current	<15mA					
Baud rate	300~38.4Kbps					
Maximum Distance	RS-485:<1.2Km(19.2Kbps),RS-232:15m					
Maximum Nodes	128 nodes					
Electrical	15Kv static protection, 600W/ms lightning protection and 2500V optic isolation					
Weight	36g(with terminal block)					
Dimensions	87mm×33mm×17mm(with terminal block)					
Working temperature $-40^{\circ}C \sim 85^{\circ}C$						

PIN Settings

The RS232 end is DB9 female. The pin definitions are below:

	PIN		1	4	6	7		8	2	3	5	
	Define	short circuit			uit	short circuit			ТΧ	RX	GND	
The RS485 end is DB9 male. The pin definitions are below:												
	PIN	1		3	į	5			6 & 7			
	Define	A+		B-	GI	GND		s	short circuit (120•)			
S	pecification	485+	- 4	85-	GI	ND	5V Short circuit 120• resistance					



Connect the DC5V external power supply to the +5V and GND pins.
The 120 jumper activates a 120 • resistor between A+ and B- when connected.



Notices

·Matching the resistance in RS485:

When using the 120 • jumper, it is required to have a similar 120 • resistor on the other end. It is only required to use this feature if the data rate is above 19.2Kbps or the cable length is over 200m.

· RS485 Grounding

The GND circuits do need to be connected together, but do not link them to earth ground.