SC-232-C	L-com Global Connectivity
RS232/RS485/422 Port-Powered Converter	**Order online or call 1-800-343-1455** **L-com.com**

◆ Product Overview

The SC-232-C is a port-powered serial converter that converts TxD and RxD RS232 to RS485/422 signals.This device also features automatic Send Data Control (SDC) which automatically enables the RS485 driver when data is present on the RS232 side.
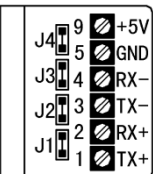
◆ Specifications

Power Supply	Powered from the RS232 side, no external power needed.
Working Current	<10mA
Baud rate	300 ~ 115.2Kbps
Maximum Distance	RS-485/422:<1.2Km(19.2Kbps),RS-232:15m
Maximum Nodes	128 nodes
Electrical	15Kv static and 600W/ms lightning protection
Weight	38g(with terminal block)
Dimensions	87mm×33mm×17mm(with terminal block)
Working temperature	-40°C ～ 85°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		short circuit		TX	RX	GND	

The RS485/422 end is DB9 male. The pin definitions are below：

PIN	1	2	3	4	5	6	7	8	4
Jumper	J2		J3			J1		J4	
RS-485	A+(J2 ON)		B-(J3 ON)		GND	J1 (ON)		Short circuit(ON) to add 120•	
RS-422	(J2 OFF)		(J3 OFF)		GND	J1 (OFF)			
	TX+	RX+	TX-	RX-					

J4 9 +5V
5 GND
J3 4 RX-
J2 3 TX-
J1 2 RX+
1 TX+

·Do not connect any power to the 5V pin, this pin is only for measurement and testing.

·A 120• resistor can be activated between the A+ and B- pins by connecting jumper J4.
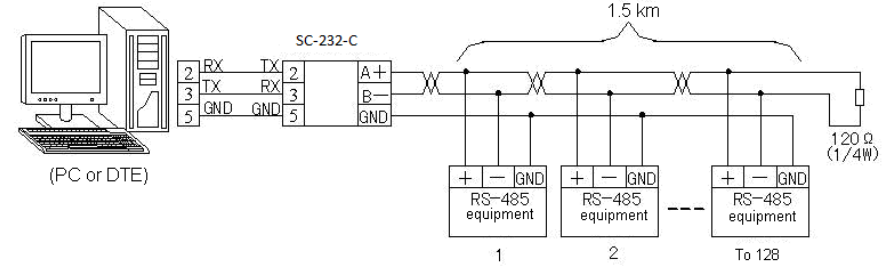
◆ Applications

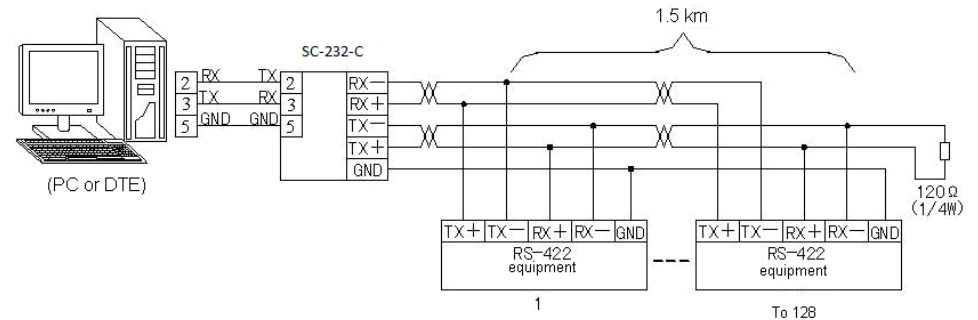Chart 1 : Master-Slave and half duplex communication

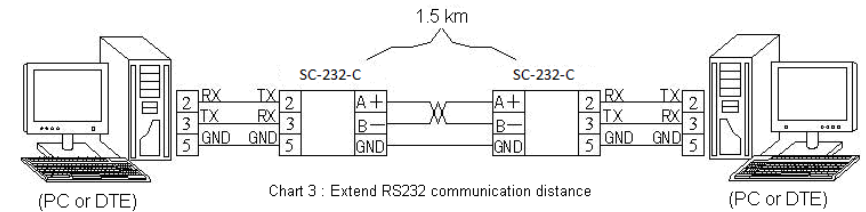Chart 2 : Master-Slave and half duplex communication

Chart 3 : Extend RS232 communication distance

◆ 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.