

RS232 to R-485/422

Port-powered Opto-isolation Converter

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Product Overview

The SC-232-E is a port-powered serial converter that converts TxD and RxD RS232 to RS485/422 signals. Additional features include; automatic Send Data Control (SDC) which automatically enables the RS485 driver when data is present on the RS232 side and Opto-isolation which protects attached communications devices from damaging ground loops.

Specifications

Power Supply	Powered through the RS232 side, no external power needed.					
Working current	<10mA					
Baud rate	300 ~ 19.2Kbps					
Maximum Distance	RS485/ RS422 1.2Km(19.2Kbps)					
Maximum Nodes	64 nodes					
Electrical	15Kv static protection, 600W/ms lightning protection, and 2500V optic isolation					
Weight	36g(with terminal block)					
Dimensions	87mmx33mmx17mm(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			short	circuit	ТΧ	RX	GND

The RS485/RS422 end is DB9 male. The pin definitions are below :

PIN	1	2	3	4	5	6	7	8	4
short circuit	J2(ON、OFF)		J3(ON、OFF)			J1(ON、OFF)		J4(ON)	
RS-485	A+(J2 ON)		B-(J3 ON)		GND	J1 (ON)		Short	
RS-422	(J2 OFF)		(J3 OFF)		GND	J1 (OFF)		circuit(ON)	
NO-422	TX+	RX+	TX-	RX-	GND	JT (OFF)		120•	



Notice

·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.