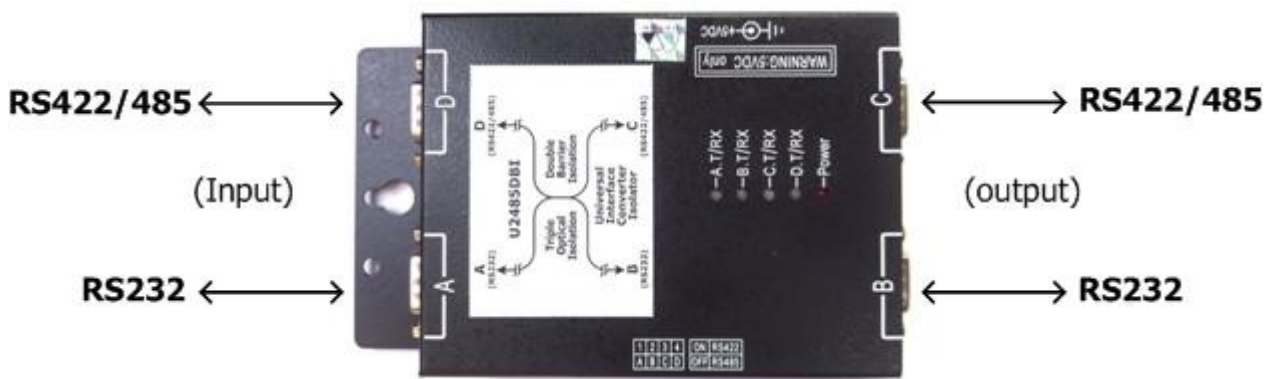


U2485DB-I box User Guide

Introduction:

U2485DB-I box is one interface converter. You can have one RS232 input connector and one RS422/RS485 input converter. And you can have one RS232 output connector and one RS422/RS485 output connector. From hardware point of view we can find opto-isolation between each connector and power supply to support robust protection from Ground loops and stray currents. From software point of view we can have Auto-Data-Direction-Control feature in Full-duplex and Half-duplex interface convert function without special software involved in control signal. So U2485DB-I box is your optimum solution in serial port communication environment.



1. We can have DIP Switch to set each serial port interface type. Bit 1 is used for port A, Bit 2 is used for port B, Bit 3 is used for port C, Bit 4 is used for port D. When we set in ON location, it is in RS422 interface mode. When we set in OFF location, it is in RS485 interface mode.

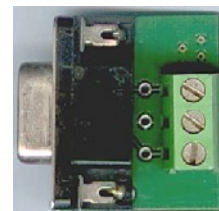
2. pin definition in DB9 connector.

DB9 Pin Number	RS232 Signal	RS422/485 Signal
1	DCD (In)	---
2	RXD (In)	RXD+ (In)
3	TXD (Out)	TXD+ (Out)
4	DTR (Out)	TXD- (Out)
5	GND	GND
6	DSR (In)	RXD- (In)
7	RTS (Out)	---
8	CTS (In)	---
9	RI (In)	---

Note: In RS485 mode pin2 and pin3 is short together as DATA+ signal. Pin4 and pin 6 is short together as DATA- signal. User can use TB485 module to exchange DB9 connector to 3 pin terminal block connector for 2 wire RS485 environment.

Accessories :

TB485 : DB9 Female to RS485 terminal kit.



block