

EX-47905

RS232 to RS422/485 Converter

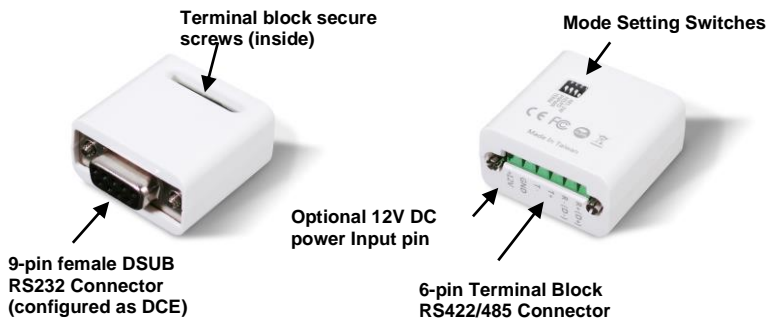
1. Introduction

Thank you for purchasing this RS232 to RS422/485 Converter. It is designed for your PC, workstation, thin client, or server to provide instant RS422/485 serial port expansion via the standard RS232 port. It provides a DB9 female connector (DCE) that can be connected directly to your PC's RS232 port. Its advanced power circuits can get the power from the standard RS232 signals. However, in case the RS232 cable is too long, or its power is too low, an external 12V DC power source can be applied to its terminal blocks as well.

Features:

- ✓ Supports a RS422/485 port over standard RS232 port
- ✓ 6-pin Terminal Block Supports RS422, RS485 4-wire 2-wire modes
- ✓ Optional model supports 350-watt Surge Protection
- ✓ Port-powered from RS232 lines, external power source supported, but not required in most cases
- ✓ Supports precise RS485 ATTA™ (Auto Transceiver Turn Around) feature to disable the line driver by hardware
- ✓ Automatic Baud Rate Detection
- ✓ No Driver Required for All Operating Systems

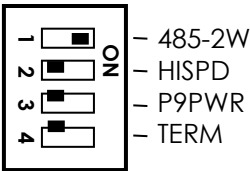
2. Layout: RS232 to RS422/485 Converter



3. Mode Switch Settings

There are 4 switch pins on the DIP switch. Their functions as follows:

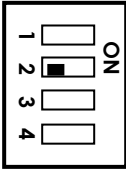
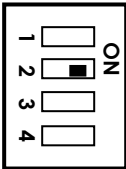
Switch pin No.	Switch Name	Description
1	485-2W	ON for RS485-2W mode, OFF for RS422 and RS485-4W modes
2	HISPD	ON for High Speed Transfer (optional, leave it at OFF)
3	P9PWR	ON to enable pin 9 of DB9 connector to supply the power, either 5V or 12V is accepted
4	TERM	ON to enable Termination Resistor



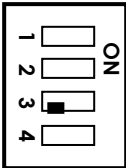
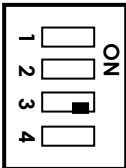
Mode Settings:

Switch Settings	Description
<p>1 <input checked="" type="checkbox"/> NO — 485-2W 2 <input type="checkbox"/> — HISPD 3 <input type="checkbox"/> — P9PWR 4 <input type="checkbox"/> — TERM</p>	RS485 2-wire mode (Default)
<p>1 <input type="checkbox"/> NO — 485-2W 2 <input type="checkbox"/> — HISPD 3 <input type="checkbox"/> — P9PWR 4 <input type="checkbox"/> — TERM</p>	RS422 or RS485 4-wire mode

DB9 pin 9 Power Settings:

Switch Settings	Description
 - 485-2W - HSPD - P9PWR - TERM	Do NOT supply power from DB9 connector pin 9 (Default)
 - 485-2W - HSPD - P9PWR - TERM	Supply power from DB9 connector pin 9

Termination Resistor Settings:

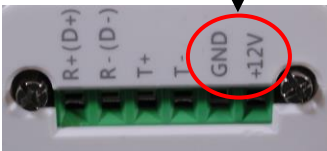
Switch Settings	Description
 - 485-2W - HSPD - P9PWR - TERM	Termination Resistor Disabled (Default)
 - 485-2W - HSPD - P9PWR - TERM	Termination Resistor Enabled

4. Installing the Converter

Since this converter supports RS232 port-powered feature, most of the cases you don't need to connect any AC adapter on it. The internal circuits of the converter will convert the power from the RS232 signals. However, in the following cases you may need DC power to be injected from either DB9 connector pin 9 (also needs to set the "P9PWR" DIP switch pin to "ON") or the terminal blocks (the pin marked as "+12V") to ensure it works normally:

- If the RS232 cable is too long to provide enough power
- Your RS232 only provides 3 wires (TXD, RXD, GND) RS232 signals, then the power of its RS232 port is not enough

Supply power to the terminal blocks if required



TB-6	Signal
1 R+(D+)	RXD+(DATA+)
2 R-(D-)	RXD-(DATA-)
3 T+	TXD+
4 T-	TXD-
5 GND	GND
6 +12V	+12V

5. Mechanical Drawings

