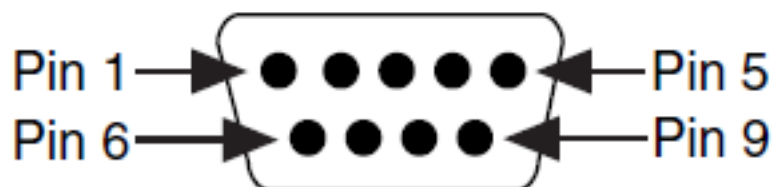# RS485 Pinout

RS485 is a serial communication protocol that can travel longer distances than RS232. The protocol supports multiple commanding and listening devices. RS485 communicates over a terminated twisted pair.

RS485 connections typically have a converter from a 232 either externally or internally to a system.

DE-9 Male

Pin 1 → ● ● ● ● ● ← Pin 5
Pin 6 → ● ● ● ● ← Pin 9

Pin	232 DTE	232 DCE	422/485
1	DCD^2	DCD	GND
2	RXD	TXD	CTS+ (HSI+)
3	TXD	RXD	RTS+ (HSO+)
4	DTR^2	DSR	RXD+
5	GND	GND	RXD–
6	DSR^2	DTR	CTS– (HSI–)
7	RTS	CTS	RTS– (HSO–)
8	CTS	RTS	TXD+
9	RI^2	RI	TXD–

Note: DCE mode supported on USB-232/2 and USB-232/4 only.

^{2} These signals are "No Connect" on the PCI-232I and PXI-8422 ports and ports 9–16 on legacy 16-port boards.

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