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NI PCIe-8430/2 (RS232)

High-Performance, 2-Port RS232 Interface for PCI Express

- Compatible with Windows and LabVIEW Real-Time OSs
- Flexible standard and nonstandard baud rates from 2 baud to 1,000,000 baud
- Better than 0.015 percent accuracy for standard baud rates and 0.5 percent for nonstandard rates
- High-speed DMA interface and 128 B transmit and receive FIFOs minimize CPU overhead
- NI-Serial driver includes free NI-VISA API for easy programming



Overview

The NI PCIe-8430/2 is a high-performance, 2-port asynchronous serial interface for high-speed communication with RS232 devices at rates of up to 1 Mbit/s. It offers flexible baud rates for data transmissions between 2 baud and 1,000,000 baud with better than 0.015 percent accuracy for standard baud rates and 0.5 percent accuracy for nonstandard baud rates.

NI 843x serial interfaces feature high-performance DMA transfers, multithreading, and multiprocessor support. Unlike traditional interrupt-based serial interfaces, you can use multiple NI serial interfaces to communicate with dozens of ports at high rates effortlessly in a single system with minimal CPU usage. The included NI-VISA API simplifies serial programming in NI LabVIEW and other languages and keeps your code portable between all VISA-compatible interfaces. NI serial interfaces also show up as standard COM ports for compatibility with programs that use serial communications.

Specifications

Specifications Summary

General	
Product Name	PCIe-8430/2
Product Family	Serial
Form Factor	PCI Express
Part Number	782122-01
LabVIEW RT Support	Yes
Serial Standard Compatibility	RS-232
Port Information	

Number of Ports	2
I/O FIFO Buffer Size	128 B
Max Device Connections / Port	31
Handles RTS/CTS Handshake Lines	Yes
Interrupt Sharing Between Ports	Yes
Direct Memory Access (DMA)	Yes
Physical Specifications	
Length	11.12 cm
Width	17.53 cm
I/O Connector	9-pin D-Sub (DB-9)
Minimum Operating Temperature	0 °C
Maximum Operating Temperature	55 °C