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NI PCI-8430/2 (RS232)

High-Performance 2-Port Serial Interface for PCI

- Compatible with Windows and LabVIEW Real-Time OSs
- High-speed DMA interface minimizes CPU overhead
- Flexible standard and nonstandard baud rates from 57 baud to 1,000,000 baud
- Memory mapped to prevent I/O resource conflicts; 128 B transmit and receive FIFOs
- Full multiprocessor and hyperthreading compatibility
- Includes NI-Serial COM port driver and NI-VISA API for easy programming in LabVIEW



Overview

The NI PCI-8430/2 is a high-performance, two-port serial interface for high-speed communication with RS232 devices at rates of up to 1 Mb/s. High-performance RS232 interfaces are available with up to eight ports. The PCI-8430/2 offers flexible baud rates for data transmissions between 57 b/s and 1 Mb/s to within 1 percent accuracy for nonstandard baud rates and 0.01 percent accuracy for standard baud rates. With the high-performance DMA engine, you achieve high throughput with minimal CPU usage.

Using hyperthreading and multiprocessor support, you can take advantage of the latest PC technology for higher speeds and better efficiency. National Instruments also offers easy-to-use powerful software that significantly reduces your development time on systems using serial communication with the PCI-8430/2.

Specifications

Specifications Documents

- Specifications

Specifications Summary

General

Product Name	PCI-8430/2
Product Family	Serial
Form Factor	PCI
Part Number	778978-01
Operating System/Target	Windows
LabVIEW RT Support	Yes
Voltage	5 VDC

Current	325 mA
Source	Internally Powered
Serial Standard Compatibility	RS-232
Port Information	
Number of Ports	2
Max Cable Length	15.6 m
I/O FIFO Buffer Size	128 B
Max Device Connections / Port	1
Handles RTS/CTS Handshake Lines	Yes
Interrupt Sharing Between Ports	Yes
Direct Memory Access (DMA)	Yes
Physical Specifications	
Length	14.2 cm
Width	10.7 cm
I/O Connector	9-pin D-Sub (DB-9)
Minimum Operating Temperature	0 °C
Maximum Operating Temperature	55 °C