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Find the *National Instruments PXI-8431/4* at our website: *Click HERE*

Technical Sales
United States
(866) 531-6285
info@ni.com

NI PXI-8431/8 (RS485/RS422)

High-Performance, 8-Port Serial Interface for PXI

- Minimal CPU usage with DMA transfers
- Memory mapped to prevent I/O resource conflicts
- Certified Windows quality driver for quick installation
- Includes converter cable (SCSI-68 to 8 DB-9 male connectors)
- LabVIEW Real-Time compatible
- Customizable baud rates up to 3 Mb/s and 128 B transmit and receive FIFOs)



Overview

The National Instruments PXI-8431/8 is a high-performance, 8-port serial interface for high-speed communication with RS485/RS422 devices at rates up to 3 Mb/s. High-performance RS485/RS422 interfaces are also available in 2 and 4-port versions from NI. The NI PXI-8431/8 offers flexible baud rates for data transmissions up to 3 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, which is especially useful for applications with simultaneous communication on multiple serial ports. With hyperthreading and multiprocessor compatibility, 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 for systems that use serial communication with the PXI-8431/8.

Specifications

Specifications Documents

- Specifications

Specifications Summary

General	
Product Name	PXI-8431/8
Product Family	Serial
Form Factor	PXI Platform
PXI Bus Type	PXI Hybrid Compatible
Part Number	779537-01
Operating System/Target	Real-Time , Windows
LabVIEW RT Support	Yes

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Voltage	5 Vrms
Current	1 A
Source	Internally Powered
Power Requirement for +5V Rail	1 A
Slot Two Module	No
Module Width	1
MXI Compatible	Yes
Serial Standard Compatibility	RS-422
Port Information	
Number of Ports	8
Max Cable Length	1.2 km
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	16 cm
Width	10 cm
I/O Connector	68-pin SCSI type
Minimum Operating Temperature	0 °C
Maximum Operating Temperature	55 °C

Pricing

NI PXI-8431/8 Packages

To use the NI PXI-8431/8 , you need all items in the diagram below. Select Option 1 if you already own a PXI System, or Option 2 if you do not already own a chassis, controller, or software.

Roll over the icons below to learn why you need each item in the system

PXI System

1 Cable **NI PXI-8431/8** Chassis Controller Software

NI PXI-8431/8 and Accessories Only

- Option 1: **NI PXI-8431/8 and Accessories Only**
- Option 2: **PXI System**

NI PXI-8431/8 - 779537-01	Qty	$ 905 each
Cable - Shielded RS485/RS422 Null Modem Cable (1m) - 183283-01 Select length: 1m 2m 4m	Qty	$ 27 each

Estimated Shipping Days: 10 - 15

Package Price: $ 932

Add to Cart >>

Guarantee your price for 30 days (learn more)

Instant Quote

Save for Later

Get Started with PXI

Choose from hundreds of specialized instruments to create a PXI System that suits your measurement needs and can scale for future applications. Then, we'll help you choose the right hardware and software to complete your configuration.

Add More Measurements and I/O Modules

Use the PXI Advisor to choose from a variety of modules including analog I/O, digital I/O, switching and more. Then, complete and price the PXI System.

Add Modules

Preview a Complete System

View and price a complete PXI configuration including the NI PXI-8431/8, chassis, and controller. Starting from the default configuration, you can add modules, accessories, and software and customize your system.

View and Price a Configured System

Services

System Assurance Programs

Reduce your setup time and total cost of ownership, and get a system you can use out of the box with National Instruments system assurance programs. System assurance programs include:

- Installation and integration test of all individual hardware
- Courtesy installation of system driver sets and application development environments
- Extended warranty and calibration coverage for up to five years
- Custom documentation plus a custom restore and startup utility

This service is only available for PXI, NI CompactRIO, and NI Compact FieldPoint systems.

- Learn More about System Configuration and Deployment Services [http://www.ni.com/services/configuration.htm]
- Customize Your CompactRIO System [http://ohm.ni.com/advisors/crio]
- Customize Your Compact FieldPoint System [http://ohm.ni.com/advisors/cfp]
- Customize Your PXI System [http://ohm.ni.com/advisors/pxi]
- Talk to an Expert about Custom System Configurations [javascript:openCallMeWindowCTA(document.referrer,%20'US')]

Extended Warranties

National Instruments designs and manufactures all products to minimize failures, however unexpected

failures can still occur. Extended warranties provide a fixed economical price at the time of system purchase, covering any repair costs for up to three years. In addition, they offer the following benefits:

- Significant cost savings compared to individual repair incidents
- Fault location, diagnostics, and repair by NI any time the system product fails
- All parts and labor costs covered as well as any adjustments needed to restore the hardware to manufacturing specifications

For more information about your warranty options:

- Learn More about Warranty Services [http://www.ni.com/services/warranty.htm]
- Talk to an Expert about Extended Warranties [javascript:openCallMeWindowCTA(document.referrer,%20'US')]
- View Warranty Repair Policies [http://www.ni.com/services/warranty_repair_policies.htm]

Calibration

NI recognizes the need to maintain properly calibrated devices for high-accuracy measurements. NI provides manual calibration procedures, services to recalibrate your products, and automated calibration software to calibrate many NI measurement products.

- Learn More about Calibration Services [http://www.ni.com/services/calibration.htm]

Training

NI training is the fastest, most certain route to productivity with NI tools and successful application development.

- Learn More about NI Training and Certification [http://www.ni.com/training/]
- Find a Course Near You and View Schedules [http://sine.ni.com/tacs/app/fp/p/ap/ov/pg/1/]

Repair Services

Return your registered product under warranty at no additional labor and parts cost. NI offers fault location, diagnostics, and repair any time the system fails as well as any adjustments needed to restore the hardware to manufacturing specifications.

- Learn More about Repair Services [http://www.ni.com/services/warranty.htm]
- Contact NI to Obtain a Return Material Authorization (RMA) Form and Shipping Instructions [http://sine.ni.com/apps/utf8/nicc.call_me]
- View Your RMA Support Request Status Online [http://www.ni.com/support/servicereq/]
- Register Your Product [http://www.ni.com/register]

Technical Support

ni.com/support [http://www.ni.com/support/]

Resources

Additional Product Information

- Dimensional Drawings
- Product Certifications

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