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Find the *National Instruments PCI-6013* at our website: *Click HERE*

Technical Sales
United States
(866) 531-6285
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NI PCI-6013

Low-Cost 200 kS/s, 16-Bit, 16-Analog-Input Multifunction DAQ

- Consider M Series for 16-bit resolution, 250 kS/s, and similar costs with the PCI-6220.
- Basic functionality for simple applications or OEM products
- 8 digital I/O lines, two 24-bit counters, digital triggering
- LabVIEW, LabWindows/CVI, and Measurement Studio for Visual Basic and Visual Studio .NET integration
- FREE award-winning global services and support at ni.com/support
- NI-DAQmx measurement services software to simplify configuration and measurements



Overview

National Instruments recommends M Series DAQ and NI-DAQmx driver software for new applications. Quadruple your resolution; increase sampling speed; and improve accuracy with the 16-bit, 250 kS/s PCI-6220.

Providing guaranteed measurement accuracy at a low price, NI B Series multifunction DAQ boards are ideal for a wide variety of OEM products or simple applications in laboratory automation, research, design verification/test, and manufacturing test. The National Instruments PCI-6013 can sustain digital and counter/timer I/O operations together with analog input operations. Consider the NI PCI-6014 for applications needing analog output. Using NI hardware, you have flexible OS, application development environment, and application software choices.

Specifications

Specifications Documents

- Specifications
- Data Sheet

Specifications Summary

General	
Product Name	PCI-6013
Product Family	Multifunction Data Acquisition
Form Factor	PCI
Part Number	778629-01
Operating System/Target	Real-Time , Linux , Mac OS , Windows
LabVIEW RT Support	Yes

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DAQ Product Family	B Series
RoHS Compliant	No
Analog Input	
Channels	16 , 8
Single-Ended Channels	16
Differential Channels	8
Resolution	16 bits
Sample Rate	200 kS/s
Max Voltage	10 V
Maximum Voltage Range	-10 V , 10 V
Maximum Voltage Range Accuracy	8.984 mV
Minimum Voltage Range	-50 mV , 50 mV
Minimum Voltage Range Accuracy	0.069 mV
Number of Ranges	4
Simultaneous Sampling	No
On-Board Memory	512 samples
Analog Output	
Channels	0
Max Voltage	10 V
Maximum Voltage Range	-10 V , 10 V
Maximum Voltage Range Accuracy	5827 µV
Minimum Voltage Range	-10 V , 10 V
Minimum Voltage Range Accuracy	5827 µV
Current Drive Single	5 mA
Digital I/O	
Bidirectional Channels	8
Input-Only Channels	0
Output-Only Channels	0
Number of Channels	0 , 8
Timing	Software
Logic Levels	TTL

Input Current Flow	Sinking , Sourcing
Output Current Flow	Sinking , Sourcing
Programmable Input Filters	No
Supports Programmable Power-Up States?	No
Current Drive Single	24 mA
Current Drive All	192 mA
Watchdog Timer	No
Supports Handshaking I/O?	No
Supports Pattern I/O?	No
Maximum Input Range	0 V , 5 V
Maximum Output Range	0 V , 5 V
Counter/Timers	
Counters	2
Number of DMA Channels	1
Buffered Operations	Yes
Debouncing/Glitch Removal	No
GPS Synchronization	No
Maximum Range	0 V , 5 V
Max Source Frequency	20 MHz
Pulse Generation	Yes
Resolution	24 bits
Timebase Stability	100 ppm
Logic Levels	TTL
Physical Specifications	
Length	16.2 cm
Width	9.2 cm
I/O Connector	68-pin male SCSI-II type
Timing/Triggering/Synchronization	
Triggering	Digital
Synchronization Bus (RTSI)	No

Pricing

NI PCI-6013 Complete Package

Each NI PCI-6013 requires:

1 Connector Block	1 Cable	**NI PCI-6013**	Software

Roll over icons above to learn why you need each item in the package.

NI PCI-6013 and Accessories

Hardware Subtotal: $ 1,027

NI PCI-6013 - 778629-01	Qty	$ 579 each
Required Accessories		
Connector Block - Screw Terminal **SCB-68** - 776844-01	Qty	$ 319 each
Cable - Shielded **SH68-68-EP Cable (2m)** - 184749-02 Select length: 1m 2m 5m 10m	Qty	$ 129 each

Change Accessories
Learn about all compatible accessories and get recommendations based on your application needs.

Optional Accessories Show

Software

Software Subtotal: $ 0
Note : You should only purchase this device without software if you already own compatible application software.

LabVIEW Full Development System for Windows (English) , 1 year SSP - 776670-35	Qty	$ 2,699 each
LabVIEW Application Builder for Windows - 776675-35	Qty	$ 999 each

Estimated Shipping Days: 1 - 3
Package Price: $ 1,027

Add to Cart >>

Guarantee your price for 30 days (learn more) Instant Quote

Save for Later

Since your device does not have direct signal connectivity, you need a connector block to act as an interface between your sensors/signals and your device. A connector block provides easy access to the inputs and outputs of your hardware.
You need a cable to transmit signals between your device and your signal connections on your connector block.
You need software to interface with your hardware and to collect, analyze, present, and store your measurements. This board is compatible with a variety of programming languages, including LabVIEW, C/C++, Visual Basic, and .NET. LabVIEW provides the easiest integration with all of your NI hardware and is recommended to maximize your hardware investment.
You have selected **United States** as the country where you will use the product(s) (change).

Services

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/apps/utf8/nisv.custed]

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

- Manuals (6)
- Product Certifications

Related Information

- PCI-6220 -- 16-Bit, 250 kS/s for More Performance, I/O, and Value
- Learn about NI-DAQmx and Other Driver Software Options
- Measure Sensors and High Voltages with NI Signal Conditioning
- Upgrade to S Series with Simultaneous Sampling
- View OEM Pricing and the OEM Elite Program
- Learn about Academic Pricing and Product Kits

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