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Find the *National Instruments PCI-6032E* at our website: *Click HERE*

Technical Sales
United States
(866) 531-6285
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NI PCI-6032E

100 kS/s, 16-Bit, 16-Analog-Input Multifunction DAQ

- **Consider NI M Series for 18-bit resolution, 625 kS/s, and similar costs with the PCI-6280.**
- FREE award-winning global services and support at ni.com/support
- 8 digital I/O lines; two 24-bit counters; analog triggering
- Included NI-DAQmx driver software and additional measurement services
- LabVIEW, LabWindows/CVI, and Measurement Studio for Visual Basic and Visual Studio .NET integration
- NIST-traceable calibration certificate and more than 70 signal conditioning options



Overview

National Instruments recommends M Series DAQ and NI-DAQmx driver software for new applications. Quadruple your resolution, increase sampling by six times, and improve your accuracy with the 18-bit, 625 kS/s PCI-6280.

Add sensor and high-voltage measurement capability to your E Series device with National Instruments SCC or SCXI signal conditioning. The National Instruments PCI-6032E uses E Series technology to deliver high-performance, reliable data acquisition capabilities to meet a wide range of application requirements. You get 100 kS/s, 16-bit resolution with 16 single-ended analog inputs. Depending on your type of hard drive, this board can stream to disk at rates up to 100 kS/s.

Using NI hardware and driver software options, you have flexible OS, application development environment, and application software choices. Complete your DAQ system with NI signal conditioning to measure virtually any type of sensor and voltage.

Specifications

Specifications Documents

- Detailed Specifications
- Data Sheet

Specifications Summary

Specifications Summary

General

Product Name	PCI-6032E
Product Family	Multifunction Data Acquisition
Form Factor	PCI

Operating System/Target	Windows , Real-Time , Linux , Mac OS
LabVIEW RT Support	Yes
DAQ Product Family	E Series
RoHS Compliant	No
Analog Input	
Channels	16 , 8
Single-Ended Channels	16
Differential Channels	8
Resolution	16 bits
Sample Rate	100 kS/s
Max Voltage	10 V
Maximum Voltage Range	-10 V , 10 V
Maximum Voltage Range Accuracy	1.147 mV
Minimum Voltage Range	0 mV , 100 mV
Minimum Voltage Range Accuracy	0.059 mV
Number of Ranges	14
Simultaneous Sampling	No
On-Board Memory	512 samples
Analog Output	
Channels	0
Digital I/O	
Bidirectional Channels	8
Input-Only Channels	0
Output-Only Channels	0
Number of Channels	8 , 0 , 0
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
Minimum Input Pulse Width	10 ns
Pulse Generation	Yes
Resolution	24 bits
Timebase Stability	100 ppm
Logic Levels	TTL
Physical Specifications	
Length	17.5 cm
Width	10.6 cm
I/O Connector	68-pin male SCSI-II type

Pricing

NI PCI-6032E Complete Package

Each NI PCI-6032E requires:


1 Connector Block


1 Cable


NI PCI-6032E


Software

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

NI PCI-6032E and Accessories

Hardware Subtotal: $ 2,967

NI PCI-6032E - 777422-01	Qty 1	$ 2,549 each
Connector Block - Screw Terminal SCB-68 - 776844-01	Qty 1	$ 299 each
Cable - Shielded SH68-68-EP (2m) - 184749-02	Qty 1	$ 119 each

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

Software **Software Subtotal: $ 0**

☐ NI LabVIEW Full Development System for Windows (English) - 776670-35	Qty 0	$ 2,599 each
☐ LabVIEW Application Builder for Windows (English) - 776675-35	Qty 0	$ 999 each

Learn about other compatible software, OS, and language options. Change Software

Estimated Shipping Days: **Package Price: $ 2,967**

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You have selected **United States** as the country where you will use this 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

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