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Find the *National Instruments PCI-6233* at our website: *Click HERE*

Multifunction Data Acquisition (DAQ)

- USB
- USB DAQ for OEM
- PCI
  - Basic (Up to 250 kS/s, 32 ch, 16-bit)
  - High Speed (Up to 1.25 MS/s, 32 ch, 16-bit)
  - Simultaneous Sampling (Up to 10 MS/s/ch)
  - High Accuracy (Up to 625 kS/s, 32 ch, 18-bit)
  - Isolated (Up to 60 VDC continuous isolation)
    - Channel-to-channel Isolated 16-Bit, 250 kS/s per Channel
    - Voltage AI/AO, 5 V TTL/CMOS DIO
    - Current AI/AO, 5 V TTL/CMOS DIO
    - Voltage AI/AO, 24 V Sourcing DIO
    - Voltage AI/AO, 24 V Sinking DIO
    - Current AI/AO, 24 V Sourcing DIO
    - Current AI/AO, 24 V Sinking DIO
  - 80 Channel Devices (Up to 1.25 kS/s, 16-bit)
  - Analog Output (Up to 1 MS/s, 8 ch, 16-bit)
- PCI Express
- PXI Platform
- X Series Starter System
- R Series Multifunction RIO
- Cables and Terminal Blocks
- Legacy DAQ
- Calibration Service for Data Acquisition Hardware
- Calibration Service for Performance Data Acquisition Hardware

NI PCI-6233

16-Bit, 250 kS/s, 16 AI, 24 V DIO Sinking, Bank Isolation

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- 60 VDC continuous bank isolation, 1,400 Vrms/1,950 VDC channel-to-bus isolation, withstand for 5 s
- 2 analog outputs, 16-bit resolution, up to 500 kS/s
- 6 digital inputs and 4 sinking digital outputs, 24 V
- 2 counter/timers, 32-bit resolution, 80 MHz
- NI-MCal calibration technology for increased measurement accuracy
- NI-DAQmx driver software and NI LabVIEW SignalExpress LE interactive data-logging software

View Data Sheet

View Support Resources

Overview | Specifications | Pricing | Services | Resources

The National Instruments PCI-6233 is an isolated M Series multifunction data acquisition (DAQ) board. It combines the safety and performance benefits of isolation with high-performance timing, amplification, and calibration technologies to offer accurate measurements and precise control.

Isolation provides:
1. Safety from transients
2. Noise rejection
3. Reduced ground loops
4. Common-mode voltage rejection

The PCI-6233 is ideal for test, measurement, control, and design applications in environments with high voltages and electrical noise. You can use the PCI-6233 to read from encoders, flow meters, and proximity sensors as well as control valves, pumps, and relays.

The isolated M Series family of devices incorporates advanced M Series technologies including the NI-STC 2 system controller, NI-PGIA 2 programmable instrumentation amplifier, and NI-MCal calibration technology to increase performance and accuracy. To learn more about M Series technologies, please refer to the data sheet and specifications.

Driver Software
M Series devices work with multiple operating systems using three driver software options including NI-DAQmx, NI-DAQmx Base, and the Measurement Hardware DDK. Browse the information in the Resources tab to learn more about and download driver software. M Series devices are not compatible with the Traditional NI-DAQ (Legacy) driver.

Application Software
With NI LabVIEW, you can create custom DAQ applications with the ease of graphical programming and power of more than 500 analysis functions. LabVIEW Full and Professional Development Systems include LabVIEW SignalExpress for interactive data logging. M Series DAQ devices are compatible with the following versions (or later) of NI application software – LabVIEW 7.x, LabWindows™/CVI 7.x, or Measurement Studio 7.x; LabVIEW SignalExpress 1.x; or LabVIEW with the LabVIEW Real-Time Module 7.1. M Series DAQ devices are also compatible with Visual Studio .NET, C/C++, and Visual Basic 6.

View Data Sheet | View Pricing and Purchasing Information

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