



Technical Sales
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NI USB-6210

16-Bit, 250 kS/s M Series Multifunction DAQ, Bus-Powered

- 16 analog inputs (16-bit, 250 kS/s)
- 4 digital inputs; 4 digital outputs; two 32-bit counters
- Bus-powered USB for high mobility; built-in signal connectivity
- NI signal streaming for sustained high-speed data streams over USB
- Compatibility with LabVIEW, LabWindows™/CVI, and Measurement Studio for Visual Studio .NET
- NI-DAQmx driver software and LabVIEW SignalExpress LE interactive data-logging software



Overview

The NI USB-6210 is a bus-powered M Series multifunction data acquisition (DAQ) module for USB that is optimized for superior accuracy at fast sampling rates. It offers 16 analog inputs; a 250 kS/s single-channel sampling rate; four digital input lines; four digital output lines; four programmable input ranges (± 0.2 to ± 10 V) per channel; digital triggering; and two counter/timers.

The USB-6210 is designed specifically for mobile or space-constrained applications. Plug-and-play installation minimizes configuration and setup time, while direct screw-terminal connectivity keeps costs down and simplifies signal connections. This product does not require external power.

This module also features the new NI signal streaming technology, which gives you DMA-like bidirectional high-speed streaming of data across USB. For more information about NI signal streaming, view the Resources tab.

Bus-powered M Series devices for USB are available in OEM versions. Check the Resources tab or use the left navigation to get pricing and technical information.

Driver Software

NI-DAQmx driver and measurement services software provides easy-to-use configuration and programming interfaces with features such as the DAQ Assistant to help reduce development time. Browse the information in the Resources tab to learn more about driver software or download a driver. M Series devices are not compatible with the Traditional NI-DAQ (Legacy) driver.

Application Software

Every M Series DAQ device includes a copy of NI LabVIEW SignalExpress LE data-logging software, so you can quickly acquire, analyze, and present data without programming. In addition to LabVIEW SignalExpress, M Series DAQ devices are compatible with the following versions (or later) of NI application software: LabVIEW 7.1, LabWindows/CVI 7.x, or Measurement Studio 7.x. M Series DAQ devices are also compatible with Visual Studio .NET, C/C++, and Visual Basic 6.0.

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Specifications

Specifications Documents

- Specifications (2)
- Data Sheet

Specifications Summary

General	
Product Name	USB-6210
Product Family	Multifunction Data Acquisition
Form Factor	USB
Part Number	779675-01 , 780103-01
Operating System/Target	Windows , Linux , Mac OS
DAQ Product Family	M Series
Measurement Type	Voltage
RoHS Compliant	Yes
Analog Input	
Channels	16 , 8
Single-Ended Channels	16
Differential Channels	8
Resolution	16 bits
Sample Rate	250 kS/s
Max Voltage	10 V
Maximum Voltage Range	-10 V , 10 V
Maximum Voltage Range Accuracy	2.69 mV
Maximum Voltage Range Sensitivity	91.6 μ V
Minimum Voltage Range	-200 mV , 200 mV
Minimum Voltage Range Accuracy	0.088 mV
Minimum Voltage Range Sensitivity	4.8 μ V
Number of Ranges	4
Simultaneous Sampling	No
On-Board Memory	4095 samples
Analog Output	
Channels	0

Digital I/O	
Bidirectional Channels	0
Input-Only Channels	4
Output-Only Channels	4
Timing	Software
Logic Levels	TTL
Input Current Flow	Sinking , Sourcing
Output Current Flow	Sourcing , Sinking
Programmable Input Filters	No
Supports Programmable Power-Up States?	Yes
Current Drive Single	16 mA
Current Drive All	50 mA
Watchdog Timer	No
Supports Handshaking I/O?	No
Supports Pattern I/O?	No
Maximum Input Range	0 V , 5.25 V
Maximum Output Range	0 V , 3.8 V
Counter/Timers	
Counters	2
Buffered Operations	Yes
Debouncing/Glitch Removal	Yes
GPS Synchronization	No
Maximum Range	0 V , 5.25 V
Max Source Frequency	80 MHz
Pulse Generation	Yes
Resolution	32 bits
Timebase Stability	50 ppm
Logic Levels	TTL
Physical Specifications	
Length	16.9 cm
Width	9.4 cm

Height	3.1 cm
I/O Connector	Screw terminals
Timing/Triggering/Synchronization	
Triggering	Digital

Pricing

HW2_PKG_TITLE

HW2_EACH_REQ

NI USB-6210 Software

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

NI USB-6210 and Accessories

Hardware Subtotal: € 629

NI USB-6210			
Windows 7/Vista/XP/2000 779675-01	Qty		€ 629 each
Mac OS X & Linux 780103-01	Qty	0	€ 629 each

Optional Accessories Hide

USB-621x Accessory Kit - 779807-01	Qty		€ 69 each
USB/PCMCIA Cable Strain Relief for Laptop - 777550-01	Qty		€ 59 each
Rugged Carrying Case for Portable Instrumentation - 780315-01	Qty		€ 169 each
DIN Rail Mounting Kit - 779689-01	Qty		€ 29 each
Compliant Calibration for NI Data Acquisition Hardware - 960462-03	Qty		€ 269 each

Software

Software Subtotal: € 0

Note : You should only purchase this device without software if you already own compatible application software.[View Full List]

LabVIEW Full Development System for	Qty	€ 2,699 each
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Windows (English) , 1
year SSP - 776670-35

**LabVIEW Application
Builder for Windows -**
776675-35

Qty

€ 999 each

[Change Software](#)

Learn about all compatible software and get recommendations based on your needs.

Estimated Shipping Days: 3 - 5

Package Price: € 629

[Add to Cart >>](#)

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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 **Turkey** 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 \[http://www.ni.com/services/warranty.htm\]](http://www.ni.com/services/warranty.htm)
- [Talk to an Expert About Extended Warranties \[javascript:openCallMeWindowCTA\(document.referrer,%20'US'\)\]](#)
- [View Warranty Repair Policies \[http://www.ni.com/services/warranty_repair_policies.htm\]](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 \[http://www.ni.com/services/calibration.htm\]](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 \[http://www.ni.com/training/\]](http://www.ni.com/training/)
- [Find a Course Near You and View Schedules \[http://sine.ni.com/tacs/app/fp/p/ap/ov/pg/1/\]](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/) [<http://www.ni.com/support/>]

Resources

Additional Product Information

- Manuals (8)
- Dimensional Drawings (2)
- Product Certifications

Related Information

- NI USB Data Acquisition for OEM
- Download NI Data Acquisition Drivers
- NI LabVIEW SignalExpress Interactive Data-Logging Software
- NI Signal Streaming: Bidirectional High-Speed Data Streams over USB