



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

NI USB-9215A

Portable USB-Based DAQ with Simultaneous Sampling

- 4 channels of 16-bit simultaneously sampled analog input
- Plug-and-play connectivity via USB
- Sampling rates at 100 kS/s per channel
- Small, portable devices (12.1 by 8.6 by 2.5 cm)
- Includes NI-DAQmx driver software and LabVIEW SignalExpress LE for Windows
- Includes NI-DAQmx Base driver software for Linux® and Mac



Overview

The NI USB-9215A data acquisition module features integrated signal conditioning that provides plug-and-play connectivity via USB for faster setup and measurements. It offers four channels of simultaneously sampled voltage inputs with 16-bit accuracy to provide minimal phase delay when scanning multiple channels. With both screw-terminal and BNC connector options, the USB-9215A is designed for flexible and low-cost signal wiring. In addition, this module includes 250 Vrms channel-to-earth ground isolation for safety, noise immunity, and high common-mode voltage range.

This USB data acquisition module is compatible with Microsoft Windows OSs when using NI-DAQmx driver software, and Mac OS X and Linux OSs when using NI-DAQmx Base driver software. This USB data acquisition module is not compatible with the Traditional NI-DAQ (Legacy) driver.

Every NI USB data acquisition module includes a copy of NI LabVIEW SignalExpress LE for Windows so you can quickly acquire, analyze, and present data without programming. In addition to LabVIEW SignalExpress, USB data acquisition modules are compatible with the following versions (or later) of NI application software – LabVIEW 7.x, LabWindows™/CVI 7.x, or Measurement Studio 7.x; or LabVIEW with the LabVIEW 7.1 Real-Time Module. USB data acquisition modules are also compatible with ANSI C/C++, C#, Visual Studio .NET, and Visual Basic 6.0.

The mark LabWindows is used under a license from Microsoft Corporation. Windows is a registered trademark of Microsoft Corporation in the United States and other countries. Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries.

Specifications

Specifications Documents

- Specifications
- Data Sheet

Specifications Summary

General

Product Name	USB-9215A
---------------------	-----------

Product Family	Signal Conditioning
Form Factor	USB
Operating System/Target	Windows , Linux , Mac OS
Measurement Type	Voltage
Isolation Type	Bank Isolation
RoHS Compliant	Yes
Product Name	USB-9215A BNC
Product Family	Signal Conditioning
Form Factor	USB
Operating System/Target	Windows , Linux , Mac OS
Isolation Type	Bank Isolation
RoHS Compliant	Yes
Analog Input	
Channels	0 , 4
Single-Ended Channels	0
Differential Channels	4
Resolution	16 bits
Sample Rate	100 kS/s
Max Voltage	10 V
Maximum Voltage Range	-10 V , 10 V
Maximum Voltage Range Accuracy	5.6 mV
Minimum Voltage Range	-10 V , 10 V
Minimum Voltage Range Accuracy	5.6 mV
Simultaneous Sampling	Yes
Channels	0 , 4
Single-Ended Channels	0
Differential Channels	4
Resolution	16 bits
Sample Rate	100 kS/s
Max Voltage	10 V
Maximum Voltage Range	-10 V , 10 V
Maximum Voltage Range Accuracy	0.14 V
Minimum Voltage Range	-10 V , 10 V
Minimum Voltage Range Accuracy	

	0.14 V
Simultaneous Sampling	Yes
Analog Output	
Channels	0
Channels	0
Digital I/O	
Bidirectional Channels	0
Input-Only Channels	0
Output-Only Channels	0
Number of Channels	0 , 0 , 0
Bidirectional Channels	0
Input-Only Channels	0
Output-Only Channels	0
Number of Channels	0 , 0 , 0
Counter/Timers	
Counters	0
Counters	0
Physical Specifications	
Length	14 cm
Width	8.6 cm
Height	2.5 cm
I/O Connector	Screw terminals
Minimum Operating Temperature	0 °C
Maximum Operating Temperature	55 °C
Minimum Storage Temperature	-10 °C
Maximum Storage Temperature	70 °C
Length	14 cm
Width	8.6 cm
Height	2.5 cm
I/O Connector	BNC connectors
Minimum Operating Temperature	0 °C
Maximum Operating Temperature	55 °C
Minimum Storage Temperature	

-10 °C

Maximum Storage Temperature

70 °C

[My Profile](#) | [RSS](#) | [Privacy](#) | [Legal](#) | [Contact NI](#) © 2010 National Instruments Corporation. All rights reserved. | [✉ E-Mail this Page](#)