

Portable USB-Based DAQ with Simultaneous Sampling

NI USB-9215A, NI USB-9215 **NEW!**

- Small, portable devices (12.1 by 8.6 by 2.5 cm)
- 4 channels of 16-bit simultaneously sampled analog input
- Built-in, removable connectors for easier and more cost-effective connectivity
- 250 V_{rms} channel-to-earth ground isolation
- Plug-and-play connectivity via USB
- Bus-powered

Operating Systems

- Windows 2000/XP
- Mac OS X
- Linux

Recommended Software

- LabVIEW
- LabWindows/CVI
- Measurement Studio

Measurement Services Software (included)¹

- NI-DAQmx driver software
- VI Logger Lite data-logging software



¹Mac OS X and Linux users must download NI-DAQmx Base driver.

Product	Signal Type	Channels (DI)	Input Resolution (bits)	Sampling Rate (kS/s/ch)	Input Range (V)	Connector	Operating System	Driver Software ¹
USB-9215A	Voltage	4	16	100	±10	Screw Terminal, BNC	Windows	NI-DAQmx
USB-9215	Voltage	4	16	20 aggregate	±10	Screw Terminal	Mac OS X and Linux	NI-DAQmx Base

¹For up-to-date information on NI-DAQ, visit ni.com/support/daq/versions.htm.

Table 1. Portable USB DAQ for Simultaneous Sampling Selection Guide

Hardware Description

National Instruments USB-9215A and USB-9215 are data acquisition modules with integrated signal conditioning that provide plug-and-play connectivity via USB for faster setup and measurements. They offer four channels of simultaneously sampled voltage inputs with 16-bit accuracy to provide minimal phase delay when scanning multiple channels. In addition, these modules include 250 V_{rms} channel-to-earth ground isolation for safety, noise immunity and high common-mode voltage range.

Software Description

The NI USB-9215A uses NI-DAQmx high-performance, multithreaded driver software for interactive configuration and data acquisition on Windows OSs. All NI data acquisition devices shipped with NI-DAQmx also include VI Logger Lite configuration-based data-logging software. The NI USB-9215 for Mac OS X and Linux uses NI-DAQmx Base, a multiplatform driver with a limited NI-DAQmx programming interface. You can use NI-DAQmx Base to develop customized data acquisition applications with National Instruments LabVIEW or C-based development environments. NI-DAQmx Base includes a ready-to-run data logger application that acquires and logs up to four channels of analog data.

Recommended Accessories

The USB-9215A and USB-9215 both have built-in screw-terminal connectivity, so no additional accessories are required. The USB-9215A is also available with BNC connectors.

Common Applications

The USB-9215A and USB-9215 are ideal for a number of applications where small size and portability are essential, such as:

- Portable data logging – log voltage data quickly and easily
- Academic lab use – obtain academic discounts for quantities of five or more. Visit ni.com/academic for details.
- Environmental monitoring – monitor environmental conditions such as humidity or light
- Embedded OEM applications
- In-vehicle data acquisition

Information for OEM Customers

For information on special configurations and pricing, please visit ni.com/oem.

Ordering Information

NI USB-9215A ¹	
Screw Terminals	779434-01
BNC Connectors	779435-01
NI USB-9215 ²	
Screw Terminals	778977-01

¹Windows only.

²Mac OS X and Linux only.

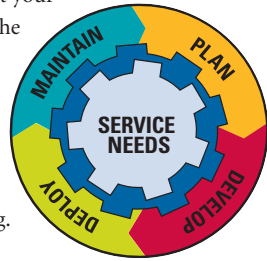
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Hardware Services

NI Factory Installation Services

NI Factory Installation Services (FIS) is the fastest and easiest way to use your PXI or PXI/SCXI combination systems right out of the box. Trained NI technicians install the software and hardware and configure the system to your specifications. NI extends the standard warranty by one year on hardware components (controllers, chassis, modules) purchased with FIS. To use FIS, simply configure your system online with ni.com/pxiadvisor.

Calibration Services

NI recognizes the need to maintain properly calibrated devices for high-accuracy measurements. We provide manual calibration procedures, services to recalibrate your products, and automated calibration software specifically designed for use by metrology laboratories. Visit ni.com/calibration.

Repair and Extended Warranty

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