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# Portable High-Performance Multifunction DAQ for USB

## NI DAQPad-6015, NI DAQPad-6016

- 16 analog inputs at up to 200 kS/s, 16-bit resolution
- Multiple signal connectivity options
- 2 analog outputs for accurate output signals
- Up to 32 digital I/O lines (5 V TTL/CMOS)
- OEM version available

### Operating Systems

- Windows 2000/XP

### Recommended Software

- LabVIEW
- LabWindows/CVI
- Measurement Studio
- VI Logger

### Other Compatible Software

- C++
- C#
- Visual Basic

### Measurement Services Software (included)

- NI-DAQmx driver software
- Measurement & Automation Explorer configuration software



Product	Bus	Analog Inputs <sup>1</sup>	Input Resolution	Sampling Rate	Input Range	Analog Outputs	Output Resolution	Output Rate <sup>2</sup>	Output Range	Digital I/O	Counter/Timers	Triggers
NI DAQPad-6015	USB	16 SE/8 DI	16 bits	200 kS/s	±0.05 to ±10 V	2	16 bits	300 S/s	±10 V	8	2	Digital
NI DAQPad-6016	USB	16 SE/8 DI	16 bits	200 kS/s	±0.05 to ±10 V	2	16 bits	300 S/s	±10 V	32	2	Digital

<sup>1</sup>SE – single ended, DI – differential <sup>2</sup>System-dependent

## Hardware Overview

The National Instruments DAQPad-6015 and DAQPad-6016 multifunction data acquisition (DAQ) devices provide plug-and-play connectivity via USB for acquiring, generating, and logging data in a variety of portable and desktop applications. DAQPad devices with screw terminals or BNC connectors provide direct connectivity so you can easily connect sensors and signals without extra cost. With DAQPad-6015 mass termination, you can cable to external accessories and signal conditioning devices such as NI SCC devices. All devices feature 16-bit accuracy at up to 200 kS/s. The DAQPad-6016 also provides 32 digital I/O lines for applications requiring an extended interface to digital sensors and actuators.

## Software Overview

NI DAQPad-6015 and DAQPad-6016 include NI-DAQmx measurement services software with which you can quickly configure and begin taking measurements with your DAQ device. NI-DAQmx provides a seamless interface to LabVIEW, LabWindows/CVI, and Measurement Studio development environments with features such as DAQ Assistant and a single programming interface for all device functions.

## Recommended Accessories

Model	Cable		Signal Connectivity	
	Noise-Reducing, Shielded	Low-Cost, Ribbon	Sensors/ Signals >10 V	Signals <10 V
NI DAQPad-6016 Screw Terminal	Built-in signal connectivity – no accessories needed			
NI DAQPad-6015 Screw Terminal				
NI DAQPad-6015 BNC				
NI DAQPad-6015 Mass Termination	SH68-68-EP	R6868	SCC signal conditioning	SCB-68
NI DAQPad-6016 OEM	SH50-50	–	Custom or third-party 50-pin connector	–
	SH6850	R6850	–	CB-68LP

Table 2. NI DAQPad-601x Accessory Selection Guide

## Common Applications

The DAQPad-6015 and DAQPad-6016 are ideal for a number of applications where portability and accurate measurements are essential, such as:

- Portable data logging – log environmental or voltage data quickly and easily
- Field-monitoring applications
- Embedded OEM applications
- In-vehicle data acquisition
- Academic lab use – academic discounts are available for quantities of five or more. Visit [ni.com/academic](http://ni.com/academic) for details.



# Portable High-Performance Multifunction DAQ for USB

## Information for OEM Customers

National Instruments has created a special OEM hardware kit for the DAQPad-6016. It does not include the enclosure, power supply, screw terminals, or printed documentation. Power supplies are sold separately. The OEM hardware kit includes two standard 50-pin connectors for connecting to custom or third-party accessories. For information on quantity pricing for this kit, please contact your local sales representative.

## Ordering Information

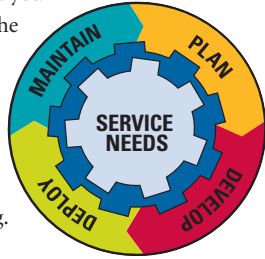
NI DAQPad-6015	
Screw terminal .....	779047-0P <sup>1</sup>
Mass termination .....	779201-0P <sup>1</sup>
BNC.....	779193-0P <sup>1</sup>
NI DAQPad-6016	
Screw terminal .....	779025-0P <sup>1</sup>
Includes NI-DAQmx software.	
<sup>1</sup> P = power, 1 for U.S. (120 V), 2 for Switzerland (220 V), 3 for Australia (240 V), 4 for Europe (240 V), 6 for UK (240 V), 7 for Japan (100 V)	
NI DAQPad-6016, OEM hardware-only kit .....	190177-01

## **BUY NOW!**

*For complete product specifications, pricing, and accessory information, call (800) 813 3693 (U.S. only) or go to [ni.com/daq](http://ni.com/daq).*

# NI Services and Support

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We also offer service programs that provide automatic upgrades to your application development environment and higher levels of technical support. Visit [ni.com/ssp](http://ni.com/ssp).

## 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](http://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](http://ni.com/calibration).

## Repair and Extended Warranty

NI provides complete repair services for our products. Express repair and advance replacement services are also available. We offer extended warranties to help you meet project life-cycle requirements. Visit [ni.com/services](http://ni.com/services).



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