PRODUCT SELECTION GUIDE

DATA ACQUISITION

USB • PCI & PCIe • LOGGERS • WIRELESS • ETHERNET

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MC MEASUREMENT COMPUTING™

THE VALUE LEADER IN DATA ACQUISITION

SOLUTIONS

MEASURE EVERYTHING

We do more than sell DAQ products – we design innovative solutions to meet the worldwide challenges of engineers, scientists, OEMs, technicians, and students. Our new **USB-1608G Series** sets a new benchmark for low-cost, high-speed USB DAQ. The new **USB-2408 Series** temperature and voltage devices, are the lowest cost 24-bit multifunction USB DAQ devices available. Both include our easy-to-use, out-of-the-box software, as well as support for a wide variety of applications and programming languages.

THE BEST VALUE IN DAQ

Pricing alone does not make you the value leader in the DAQ industry. For over 20 years we've offered quality DAQ solutions that are not only priced right, but are engineered to exceed the needs and expectations of our customers.

SOFTWARE

Software can be one of the most important components of any DAQ or control system. Offering the flexibility to match your preferences, each MCC product includes multiple software interface options. Out-of-the-box **TracerDAQ™** software offers a quick and easy way to log and display data, while drivers for **DASYLab®** and **NI LabVIEW™** provide even more functionality and application customization possibilities. For programmers, we also include comprehensive support for most programming languages under Windows®, Linux®, and Mac®.

SUPPORT

To demonstrate our commitment to your success, every MCC product includes free technical support from qualified application engineers with NO service contracts. Our limited lifetime warranties and Harsh Environment Program are unmatched in the industry.
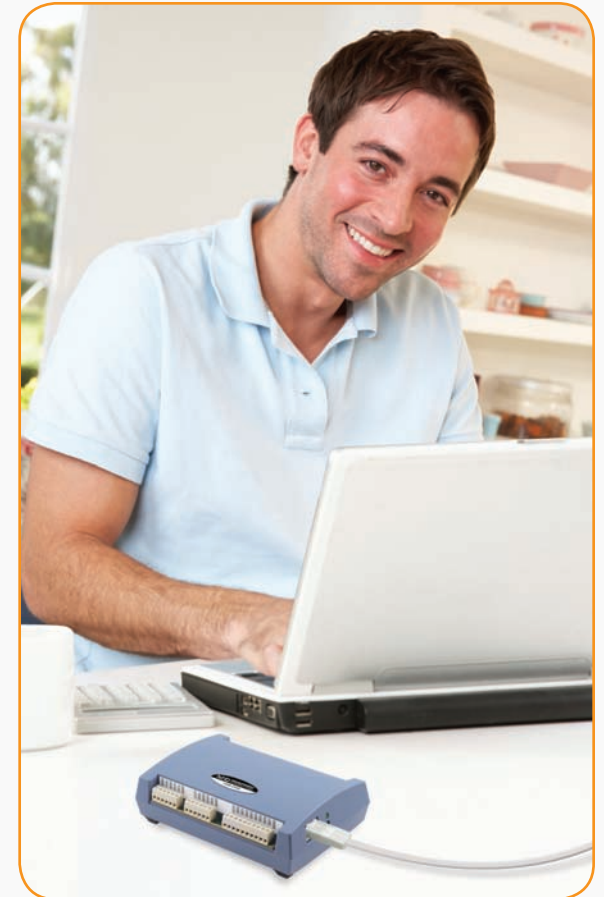
*The low-cost **USB-1608G Series** sets a new benchmark for performance and value in USB DAQ with sampling rates up to 500 kS/s*

DISTRIBUTORS OUTSIDE THE U.S.

Measurement Computing
10 Commerce Way, Norton, MA 02766
(508) 946-5100
Fax: (508) 946-9500
info@mccdaq.com
www.mccdaq.com

MEASUREMENT COMPUTING™

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USB DAQ

SOLUTION HIGHLIGHTS

The most popular bus for data acquisition, the plug and play USB interface easily connects one or multiple devices. Our USB DAQ devices are engineered to fit a wide array of applications. Acquire data without programming with our included software support, or use one of the many applications or programming languages.

- Up to 24-bit resolution
- Up to 2 MS/s sampling
- Up to 64 channels
- Digital I/O and counter/timer (including quadrature)
- Analog output
- Included software and drivers
- *The best value in the industry from $99*

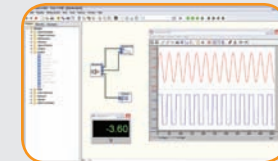## SOFTWARE DESIGNED TO MEET YOUR REQUIREMENTS

Out-of-the-box **TracerDAQ** included with most hardware, features a strip-chart recorder, oscilloscope, function generator, and rate generator.

Upgraded version, **TracerDAQ Pro**, provides more triggering options, alarms, up to 48 channels, and more.

Universal Library, a Windows®-based programming library, includes a universal set of functions compatible with most MCC products.

ULx for NI LabVIEW™ provides a new set of high-level VIs developed specifically for MCC devices.

DASYLab®, a graphical environment, creates powerful applications without writing code. Develop applications with control, analysis, display, and reporting features in minutes.

MATLAB® and **Linux®** — Many MCC products are supported under MATLAB and Linux. Refer to our website for details.

DAQFlex for Windows®, Linux®, and Mac® — an open-source software framework that allows programming in virtually any operating system. The simplicity of the driver is enabled with a message-based protocol on select MCC DAQ devices.

	DEVICE	Analog Inputs	Sample Rate	Digital I/O	Counter/ Timers	Analog Outputs	PRICE
12-bit	USB-1208LS	8 SE/4 DIFF	1.2 kS/s	16	1	2	$129
	USB-1208FS	8 SE/4 DIFF	50 kS/s	16	1	2	$189
13-bit	USB-1208HS	8 SE/4 DIFF	1 MS/s	16	2	—	$499
	USB-1208HS-4AO	8 SE/4 DIFF	1 MS/s	16	2	4	$699
16-bit	USB-1608FS	8 SE	200 kS/s	8	1	—	$399
	USB-1608G	16 SE/8 DIFF	250 kS/s	8	1	—	$399
	USB-1608GX	16 SE/8 DIFF	500 kS/s	8	1	—	$599
	USB-1608GX-2AO	16 SE/8 DIFF	500 kS/s	8	1	2	$799
	USB-1602HS	2	2 MS/s	32	2*	—	$1,999
	USB-1602HS-2AO	2	2 MS/s	32	2*	2	$2,199
	USB-1616HS	16 SE/8 DIFF**	1 MS/s	24	4*	—	$1,399
	USB-1616HS-4	16 SE/8 DIFF**	1 MS/s	24	4*	4	$1,599
24-bit	USB-2408	16 SE/8 DIFF	1 kS/s	8	2	—	$599
	USB-2408-2AO	16 SE/8 DIFF	1 kS/s	8	2	2	$699
	USB-2416	32 SE/16 DIFF**	1 kS/s	8	2	—	$1,099
	USB-2416-4AO	32 SE/16 DIFF**	1 kS/s	8	2	4	$1,299

* Capable of measuring quadrature encoders
** Expandable to 64 SE/32 DIFF, measure volts or temp

VIEW MORE PRODUCTS ONLINE

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USB DAQ

LOW-COST MULTIFUNCTION DEVICES
USB-1208, 1408, 1608 Series

- Up to 8 analog inputs
- 12-, 14-, or 16-bit resolution
- Up to 500 kS/s sampling
- Digital I/O, counters/timers
- Up to 2 analog outputs
- Included software and drivers
- *From $129*

16-BIT, HIGH-SPEED, MULTIFUNCTION DAQ DEVICES
USB-1608G Series

- Acquisition rates ranging from 250 kS/s to 500 kS/s
- 16 SE/8 DIFF analog inputs
- Up to 2 analog outputs
- 8 digital I/O lines
- Two 32-bit counter input channels
- Included software and drivers for Windows®, Linux®, and Mac®
- *From $399*

LOW-COST, HIGH-SPEED DEVICES
USB-1208HS Series

- 1 MS/s sampling
- 8 analog inputs
- 16 digital I/O, counters/timers
- Up to 4 analog outputs
- Included software and drivers
- *From $499*

OS-INDEPENDENT DAQ DEVICES
USB-7000 Series with DAQFlex

- Windows® 32/64, Linux®, and Mac® compatible
- Program with simple text-based messages
- 12- or 16-bit resolution
- 8 channels
- Up to 200 kS/s sampling
- *From $189*

VOLTAGE, TEMPERATURE, AND BRIDGE-BASED INPUT DEVICES
USB-2404 Series

- 4 universal analog inputs (USB-2404-UI)
- Directly measure voltage, resistance, temperature, current, or bridge-based sensors
- 24-bit resolution
- Simultaneous sampling
- Up to 50 kS/s sampling, up to ±60 V inputs
- Included software and drivers
- *From $999*

HIGH-SPEED, 16-BIT MULTIFUNCTION DEVICES
USB-1616HS Series

- 1 MS/s sampling
- Measure voltage or thermocouples
- 16-bit resolution
- Up to 64 analog inputs
- 24 digital I/O, 4 counters/timers
- Up to 4 analog outputs
- Included software and drivers
- *From $1,399*

MEASUREMENT COMPUTING™

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USB DAQ

HIGH-SPEED MULTIFUNCTION BOARDS
USB-2500 Series

- 1 MS/s sampling
- 16-bit resolution
- Up to 64 analog inputs
- 24 digital I/O, 4 counters
  (configurable for quadrature encoders)
- Up to 4 analog outputs
- Included software and drivers
- *From $899*

MULTIFUNCTION TEMPERATURE AND VOLTAGE DEVICES
USB-2408 Series

- Measure thermocouples or voltage
- 24-bit resolution
- Up to 16 analog inputs
- Up to 1 kS/s sampling
- 8 digital I/O
- Up to 2 analog outputs
- Included software and drivers for Windows®, Linux®, and Mac®
- *From $599*

Test & Measurement World
BEST IN TEST
2012 AWARD WINNER

HIGH-ACCURACY MULTIFUNCTION DEVICES
USB-2416 Series

- 24-bit resolution
- Measure thermocouples or voltage
- 32 single ended/16 differential inputs
- Up to 4 analog outputs, digital I/O, counters
- Expandable to 64 channels
- Included software and drivers
- *From $1,099*

HIGH-SPEED BNC MULTIFUNCTION DEVICES
USB-1602HS and USB-1604HS Series

- 2 or 4 analog inputs
- 16-bit resolution
- 1.33 MS/s or 2 MS/s simultaneous sampling
- Up to 2 analog outputs
- 32 digital I/O, counter/timer
- Included software and drivers
- *From $1,999*

LOW-COST TEMPERATURE AND VOLTAGE DEVICES
USB-TEMP and TC Series

- Measure thermocouples, RTDs, thermistors, or voltage
- 24-bit resolution
- 8 channels
- Included software and drivers
- *From $359*

16-BIT SIMULTANEOUS SAMPLING DEVICES
USB-1608HS Series

- 250 kS/s per channel simultaneous sampling
- 8 analog inputs
- 16 digital I/O, counters/timers
- Up to 2 analog outputs
- Included software and drivers
- *From $1,199*

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USB DAQ

DIGITAL I/O BOARDS AND DEVICES
USB-DIO24 Series and DIO96H

- 24 or 96 channels
- High-current output models available
- Included software and drivers
- *From $99*

ELECTROMECHANICAL RELAY DEVICES
USB-ERB Series

- 8 or 24 relays
- Form C (SPDT) relays
- 6 amps at 240 VAC/28 VDC
- Included software and drivers
- *From $279*

24-CHANNEL DIGITAL I/O DEVICES
USB-1024 Series

- 24 digital I/O
- High-current output available
- 82C55 based
- One 32-bit counter
- Included software and drivers
- *From $99*

DIGITAL DEVICES FOR SOLID STATE I/O DEVICES
USB-SSR Series

- 8 or 24 input or output channels
- Control and monitor up to 24 channels
- Uses standard OAC5/ODC5/IAC5/IDC5 modules (sold separately)
- Included software and drivers
- *From $389*

ANALOG OUTPUT DEVICES
USB-3100 Series

- Up to 16 channels
- 16-bit resolution
- Voltage or current output
- High-drive models available
- 8 digital I/O
- Included software and drivers
- *From $299*

QUADRATURE ENCODER DEVICE
USB-QUAD08

- 8 channels
- 10-MHz counters, ±12 V input range
- Programmable debounce times
- 8 digital I/O
- Two timer outputs
- 16-, 32-, 48-bit resolution
- Included software and drivers
- *$599*

MEASUREMENT COMPUTING™

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TEMPERATURE

SOLUTION HIGHLIGHTS

Accurately measure thermocouples, RTDs, thermistors, or voltage with our large selection of devices and boards. Choose from an assortment of interfaces including USB, wireless, Ethernet, and stand-alone loggers.

- Measure thermocouples, RTDs, thermistors, or voltage
- Up to 24-bit resolution
- 8 or more channels
- USB bus-powered devices
- Stand-alone loggers with internal memory
- Ethernet-based devices with built-in Web server/Web page
- Wireless devices
- Included software and drivers
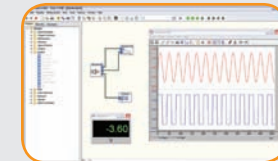- *From $49*

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	DEVICE	Channels	Thermocouple Inputs	RTD, Thermistor, Semiconductor Temp Device Inputs	Voltage Inputs	Analog Outputs	Sample Rate	PRICE
USB	USB-TC	8	√	—	—	—	2 S/s	$359
	USB-TEMP	8	√	√	—	—	2 S/s	$549
	USB-TC-AI	8	√	—	√	—	2 S/s	$599
	USB-TEMP-AI	8	√	√	√	—	2 S/s	$719
	USB-2408	16*	√	—	√	—	1 kS/s	$599
	USB-2408-2AO	16*	√	—	√	2	1 kS/s	$699
	USB-2416	16**	√	—	√	—	1 kS/s	$1,099
	USB-2416-4AO	16**	√	—	√	4	1 kS/s	$1,299
Wireless	WLS-TC-ValuePack	8	√	—	—	—	2 S/s	$829
	WLS-TEMP-ValuePack	8	√	√	—	—	2 S/s	$879
Web-Enabled	WEB-TC	8	√	—	—	—	2 S/s	$599
	WEB-TEMP	8	√	√	—	—	2 S/s	$699
Loggers	USB-5201	8	√	—	—	—	2 S/s	$689
	USB-5203	8	√	√	—	—	2 S/s	$799
	USB-501-LT	1†	—	—	—	—	15 minutes	$49

** 16 SE/8 DIFF
* 32 SE/16 DIFF expandable to 64 SE/32 DIFF channels with AI-EXP32
† Measures temperature directly

VIEW MORE PRODUCTS ONLINE

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TEMPERATURE

HIGH-ACCURACY MULTIFUNCTION DEVICES
USB-2408 and USB-2416 Series

- Measure thermocouples or voltage
- 24-bit resolution
- 16 SE/8 DIFF or 32 SE/16 DIFF inputs
- Expandable to 64 SE/32 DIFF inputs (USB-2416 Series only)
- Up to 4 analog outputs, digital I/O, counters
- Included software and drivers
- *From $599*

LOW-COST TEMPERATURE AND VOLTAGE DEVICES
USB-TEMP and TC Series

- Measure thermocouples, RTDs, thermistors, or voltage
- 24-bit resolution
- 8 channels
- Included software and drivers
- *From $359*

WEB-ENABLED TEMPERATURE MEASUREMENT DEVICES
WEB-TEMP and TC Series

- Measure thermocouples, RTDs, thermistors, or semiconductor temperature devices
- 8 channels
- Built-in web server/web page
- Ethernet connection
- 8 digital I/O
- *From $599*

WIRELESS MEASUREMENT DEVICES
WLS-TEMP and TC Series

- Wireless range: up to 2,400 feet
- Measure thermocouples, RTDs, or thermistors
- 8 channels
- 24-bit resolution
- Included software and drivers
- *From $829*

STAND-ALONE DATA LOGGERS
USB-5200 Series

- Measure thermocouples, RTDs, or thermistors
- 24-bit resolution
- 8 channels
- 8 digital I/O; configurable for alarming
- CompactFlash® memory card included
- Included software and drivers
- *From $689*

LOW-COST DATA LOGGERS
USB-500 Series

- Measure temperature, humidity, voltage, current, or event/state change
- Up to 32 K readings
- Battery powered
- Internal memory
- Included software
- *From $49*

MEASUREMENT COMPUTING™

THE VALUE LEADER IN DATA ACQUISITION

OEM

OEM AND EMBEDDED SOLUTIONS

As a leading supplier of OEM DAQ solutions, we offer high-quality, cost-effective products backed by a worldwide sales and support network. Contact us to evaluate a product or discuss your application. Our OEM engineers will assist you through all phases of your product's life cycle.

- *OEM experience* - MCC has been a leading provider of OEM DAQ products since 1989
- *Volume pricing* - our proven efficiencies allow us to pass savings on to our customers
- *Customization* - different form factors, added or reduced functionality, private labeling and more
- *Software* - comprehensive support for the most popular programming languages
- *Support* - qualified application engineers provide assistance with all phases of your product's life cycle
- *Unmatched warranties* - lifetime limited warranties and our unique Harsh Environment Program
- *Free OEM evaluations*

MULTIFUNCTION USB
USB-2500 Series

- 1 MS/s sampling
- 16-bit resolution
- Up to 64 analog inputs
- 24 digital I/O, 4 counters (configurable for quadrature encoders)
- Up to 4 analog outputs
- Included software and drivers

OS-INDEPENDENT USB
USB-7000 Series with DAQFlex

- Windows® 32/64, Linux®, and Mac® compatible
- Program with simple text-based messages
- 12- or 16-bit resolution
- 8 channels
- Up to 200 kS/s sampling

MULTIFUNCTION PCI
PCI-2500 Series

- 1 MS/s sampling
- 16-bit resolution
- 16 analog inputs
- 24 digital I/O, 4 counters (configurable for quadrature encoders)
- Up to 4 analog outputs
- Included software and drivers

VIEW MORE PRODUCTS ONLINE

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LOGGERS

SOLUTION HIGHLIGHTS

Our compact and powerful stand-alone data loggers measure voltage, temperature, humidity, current, and digital I/O. Configure, log, and access data easily with included software.

- Stand-alone data loggers
- Measure voltage, temperature, humidity, current, or event/state change
- One to 16 channels
- Configurable for start/stop time, logging rate, and more
- Download stored data via USB or memory card
- Included software and drivers
- *From $49*

TECH BRIEFS
2010 Product of the Year

DEVICE	Channels	Measurement Type	Sample Rate	Digital I/O	Memory	Features	PRICE
USB-501	1	temperature	10 sec to 12 hrs	—	16 K readings	—	$63
USB-501-LCD	1	temperature	10 sec to 12 hrs	—	16 K readings	built-in LCD display	$80
USB-501-LT	1	temperature	15 min to 2 hrs	—	4 K readings	—	$49
USB-501-PRO	1	temperature	1 sec to 12 hrs	—	32 K readings	extended temperature range	$150
USB-501-RCG	1	temperature	1 sec to 12 hrs	—	32 K readings	rechargeable battery	$125
USB-501-TC	1	thermocouple	1 sec to 12 hrs	—	32 K readings	—	$85
USB-501-TC-LCD	1	thermocouple	1 sec to 12 hrs	—	32 K readings	built-in LCD display	$102
USB-502	2	temperature, humidity	10 sec to 12 hrs	—	16 K readings	—	$82
USB-502-LCD	2	temperature, humidity	10 sec to 12 hrs	—	16 K readings	built-in LCD display	$99
USB-502-PLUS	2	temperature, humidity	10 sec to 12 hrs	—	16 K readings	increased accuracy	$110
USB-503	1	0 to 30 VDC	10 sec to 12 hrs	—	32 K readings	—	$72
USB-504	1	4 to 20 mA	10 sec to 12 hrs	—	32 K readings	—	$72
USB-505	1	event, state change	1 sec to 12 hrs	—	32 K readings	—	$82
USB-5201	8	thermocouple	2 S/s per ch	8	512 MB (2 GB available)	—	$689
USB-5203	8	thermocouple, RTD, thermistor	2 S/s per ch	8	512 MB (2 GB available)	—	$799
LGR-5325	16	±10 V	up to 100 kS/s	16	4 GB (32 GB supported)	4 counters	$1,499
LGR-5327	16	±30 V	up to 200 kS/s	16	4 GB (32 GB supported)	4 quadrature inputs	$1,799
LGR-5329	16	±30 V	up to 200 kS/s	16	4 GB (32 GB supported)	4 quadrature inputs, isolated digital inputs	$2,199

VIEW MORE PRODUCTS ONLINE

SOFTWARE DESIGNED TO MEET YOUR REQUIREMENTS

USB-500 Series data loggers include easy-to-use software to set data rates, alarms, and start/stop times. Easily display, graph, and save data in formats such as Excel® and .csv.
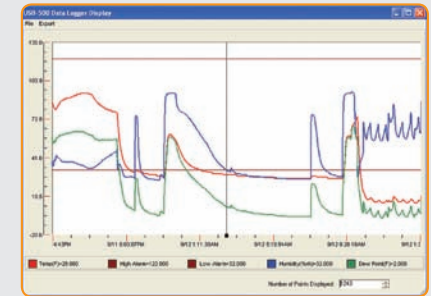
Software options for the **USB-5200 Series** loggers include: **TracerDAQ** out-of-the-box software, **Universal Library** for programmers, **ULx for NI LabVIEW™**, and **DASYLab®** support.

*Included **TracerDAQ** software provides set-up capability plus charting and graphing functions. Data can be easily exported into multiple formats.*

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LOGGERS

HIGH-SPEED, STAND-ALONE DATA LOGGERS

LGR-5320 Series

- 16 channels, up to ±30 V
- Up to 200 kS/s sampling
- 16 digital inputs up to 30 V
- Form C relay output for triggering/alarming
- Four counters (quadrature available)
- 4 GB SD memory card included, supports up to 32 GB
- Included software
- *From $1,499*

NASA TECH BRIEFS
2010 Product of the Year

STAND-ALONE DATA LOGGERS

USB-5200 Series

- Measure thermocouples, RTDs, or thermistors
- 24-bit resolution
- 8 channels
- 8 digital I/O; configurable for alarming
- CompactFlash® memory card included
- Included software and drivers
- *From $689*

LOW-COST DATA LOGGERS

USB-500 Series

- Measure temperature, humidity, voltage, current, or event/state change
- One or two channel
- Up to 32 K readings
- Battery powered
- Internal memory
- Included software
- *From $49*

FEATURED PRODUCT

LGR-5329

HIGH-SPEED DATA ACQUISITION LOGGER

The **LGR-5329** is ideal for high-speed data logging. Configuration and data retrieval are made via the SD memory card or USB connection. Built-in control buttons provide the ability to load and save configurations, start data logging, and record triggering events. LEDs provide unit status.

Engineered for industrial monitoring applications, the **LGR-5329** features ±30 V analog inputs, 16 optically isolated digital inputs, single Form C relay output, and quadrature encoder inputs.

Included DAQLog software is an easy-to-use configu-ration and data conversion utility that converts data into formats including .csv

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PCI & PCIe
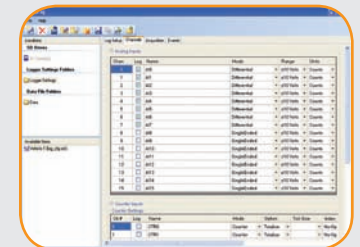
SOLUTION HIGHLIGHTS

MCC plug-in boards are engineered to fit your application. For programmers, our Universal Library contains high-level functions for common operations regardless of bus interface. The driver easily migrates from ISA to PCI, to USB. Protect your investment with MCC's platform compatibility.

- Analog input and output
- Digital I/O
- Counters/timers
- High-speed, up to 20 MS/s
- Signal conditioning options
- Included software and drivers
- *From $109*
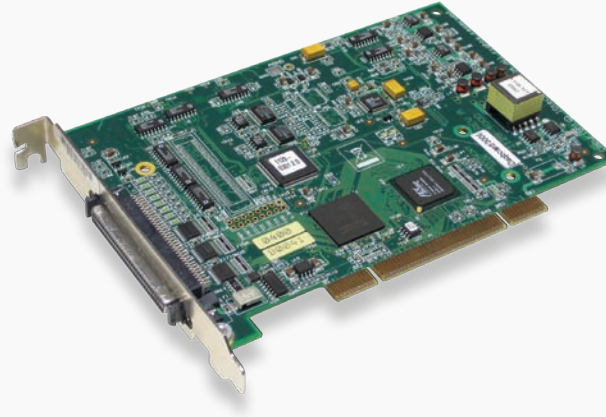
	DEVICE	Analog Inputs	Sample Rate	Digital I/O	Counter/Timers	Analog Outputs	PRICE
16-bit Multifunction	PCI-2511	16 SE	1 MS/s	24	4*	—	$719
	PCI-2513	16 SE/8 DIFF	1 MS/s	24	4*	—	$829
	PCI-2515	16 SE/8 DIFF	1 MS/s	24	4*	2	$939
	PCI-2517	16 SE/8 DIFF	1 MS/s	24	4*	4	$1049
Analog Output	PCI-DAC6702	—	—	8	—	8	$729
	PCI-DAC6703	—	—	8	—	16	$879
Digital I/O	PCI-DIO24	—	—	24	—	—	$99
	PCI-DIO96	—	—	96	—	—	$299
	PCIe-DIO24	—	—	24	—	—	$279
	PCIe-DIO96H	—	—	96	—	—	$439

* Capable of measuring quadrature encoders

VIEW MORE PRODUCTS ONLINE
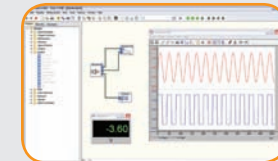
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PCI & PCIe

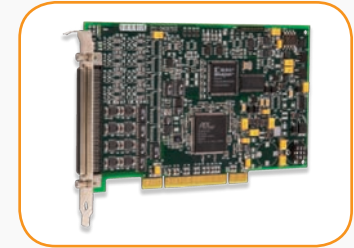## HIGH-SPEED MULTIFUNCTION BOARDS
PCI-2500 Series

- 1 MS/s sampling
- 16-bit resolution
- 16 analog inputs
- 24 digital I/O, 4 counters (configurable for quadrature encoders)
- Up to 4 analog outputs
- Included software and drivers
- *From $719*
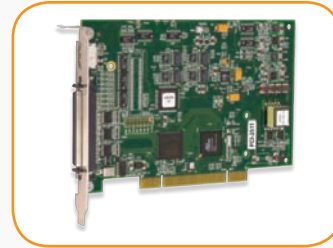
ANALOG OUTPUT BOARDS
PCI-DAC6700 Series

- 8 or 16 outputs
- 16-bit resolution
- 8 digital I/O
- Included software and drivers
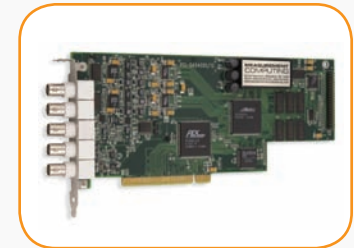- *From $729*

12- AND 16-BIT MULTIFUNCTION BOARDS
PCI-DAS6000 Series

- 16 to 64 analog inputs
- Up to 1.25 MS/s sampling
- Up to 2 analog outputs
- Digital I/O, counter/timer
- Included software and drivers
- *From $399*

ULTRA HIGH-SPEED BOARD
PCI-DAS4020/12

- 20 MS/s sample rate
- 12-bit resolution
- 4 analog inputs
- 2 analog outputs
- 24 digital I/O
- Included software and drivers
- *$1,429*

LOWEST-COST ANALOG INPUT BOARD
PCI-DAS08

- 8 analog inputs
- 40 kS/s sampling
- 7 digital I/O, counters/timers
- Included software and drivers
- *$249*

PCI AND PCIe DIGITAL I/O BOARDS
PCI-DIO24 Series

- Low profile/half height available
- High-drive capability available
- 82C55-based
- PCIe versions available
- 48- and 96-channel versions available
- Included software and drivers
- *From $99*

MEASUREMENT COMPUTING™

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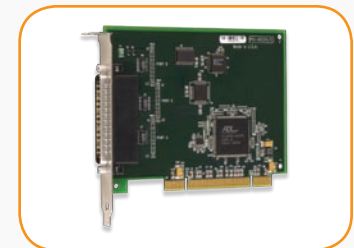
ADVANCED SENSOR MEASUREMENTS

SOLUTION HIGHLIGHTS

IOtech Advanced Measurement Products from MCC combine highly-accurate, Ethernet-based DAQ devices with powerful, intuitive **Encore** software. Devices feature integrated signal conditioning and the ability to sync with other **6000 Series** devices for high-channel count and mixed signal systems.

- Measure strain, temperature, or voltage
- 12 channels
- Up to 24-bit resolution
- Up to 100 kS/s sampling per channel
- 8 digital I/O
- **Encore** software included with each device
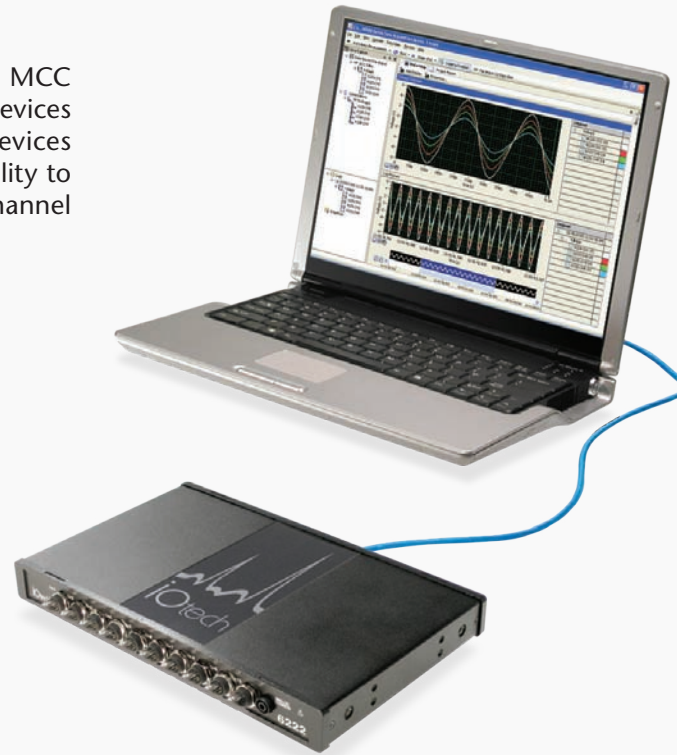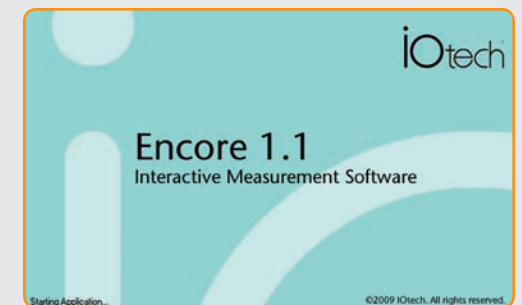
INTERACTIVE MEASUREMENT SOFTWARE

Encore, the premier out-of-the-box data acquisition software package, is included with each **6000 Series** device. Encore combines ease of use with advanced functionality including: customizable data layouts, powerful analysis, and reporting capabilities.

- Advanced feature set with no programming
- Easy-to-use set-up wizards
- Drag-and-drop functionality
- Data streaming and playback
- Comprehensive report generation
- Data analysis including: FFT, RMS, Statistics, and more
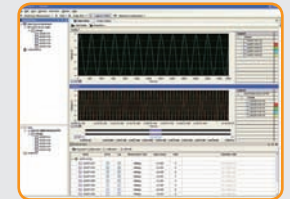
Develop data displays quickly with **Encore's** intuitive, drag-and-drop interface. Then export your data to popular formats including Excel®, ASCII, DIAdem, and more.

FEATURES	6220	6224	6222	6230	6231
Analog Input Type	voltage	strain gage/bridge	thermocouple	voltage	voltage
Analog Inputs	12	12	12	12	12
Resolution	16-bit	24-bit	24-bit	24-bit	24-bit
Sample Rate	100 kS/s	50 kS/s	2 S/s	50 kS/s	50 kS/s
Voltage Input Range	±10 V	±25 mV/V	±80 mV	±10 V	±60 V
Connector Type	BNC	RJ50	screw terminal	screw terminal	screw terminal
Ch-to-ch Isolation	—	—	—	yes	yes
PRICE	**$2,999**	**$4,799**	**$2,299**	**$3,999**	**$4,299**

iOtech
Encore 1.1
Interactive Measurement Software

Starting Application... ©2009 IOtech. All rights reserved.

CLICK HERE to view the 8-minute *Getting Started Video* to learn more about **Encore**

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IOtech PRODUCTS

SOLUTION HIGHLIGHTS

IOtech products from MCC are portable data acquisition solutions designed for direct sensor measurements. Signal conditioning for a variety of signal types are available. Each system also has built-in channel expansion capability.

All IOtech DAQ solutions include *Out-of-the-Box* measurement software, as well as support for programming languages and applications including NI LabVIEW® and DASYLab®.

MIXED SIGNAL MEASUREMENTS
DaqBook/2000 Series

- Measure temperature, strain, pressure, and more
- 8 to 256 channels
- 200 kHz A/D
- Ethernet interface
- Digital I/O and Analog Output
- *Out-of-the-Box* software and drivers
- *From $2,749*

PORTABLE USB
Personal Daq/3000 Series

- Measure thermocouples or voltage
- 8 to 64 channels
- Digital I/O and analog output
- OEM board only versions available
- *Out-of-the-Box* software and drivers
- *From $1,399*

STRAIN GAGE MEASUREMENTS
StrainBook/616

- Measure strain, load, and pressure
- 8 to 64 channels
- 1 MHz A/D
- Ethernet interface
- Digital I/O
- *Out-of-the-Box* software and drivers
- *From $6,599*

RACK AND LABORATORY
DaqScan/2000 and DaqLab/2000

- 19" rack-mountable and benchtop DAQ
- 8 to 256 channels
- Ethernet interface
- Measure various sensor types
- *Out-of-the-Box* software and drivers
- *From $1,869*

HIGH-SPEED, MIXED SIGNAL MEASUREMENTS
WaveBook/516E

- Measure vibration, strain, pressure, temperature, and more
- 8 to 72 channels
- 1 MHz A/D
- Ethernet interface
- Digital I/O
- *Out-of-the-Box* software and drivers
- *From $6,599*

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SOFTWARE

SOLUTION HIGHLIGHTS

Get the most out of your DAQ solution with our wide-ranging software options. With out-of-the-box software or drivers for multiple supported programs and languages, choose the software interface that matches your preference or skill level.
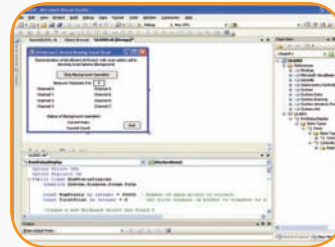
OUT-OF-THE-BOX
TracerDAQ

- Included with most MCC hardware
- Includes strip chart, oscilloscope, function generator, and rate generator
- Easy to use

VISUAL STUDIO® and VISUAL STUDIO .NET®
Universal Library

- Windows®-based programming library included with most MCC hardware
- Supports C/C++, Visual Studio®, Visual Studio .NET®
- Universal set of functions for all MCC hardware
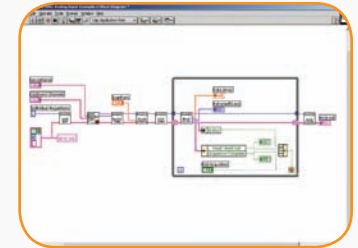
OPEN-SOURCE SOFTWARE FRAMEWORK
DAQFlex

- Support for Windows® 32/64, Linux®, and Mac®
- Designed for OEMs
- Simple, message-based programming interface
- OS independent with a single API
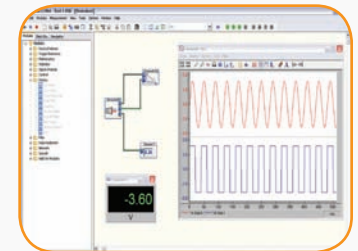
NI LabVIEW™
ULx for NI LabVIEW

- Library, VIs, and program examples for NI LabVIEW
- Comprehensive library of graphical functions
- Included support with most MCC hardware

DASYLab®
DASYLab Drivers

- Create powerful applications without writing code
- Control, analysis, display, reporting, and more
- Included support with most MCC hardware

MATLAB®
MATLAB Drivers

- Communicate directly with MCC data acquisition hardware
- Data analysis, data manipulation, and pre- and post-processing
- Supported through MATLAB's Data Acquisition Toolbox®
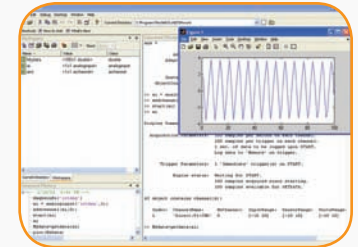
LINUX®
Linux Support

- Professional API for programmers
- Support for many MCC boards and devices

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