

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

PXI/DAQ/DAQe-2000 Series

4-CH 14/16-Bit Up to 2 MS/s Simultaneous-Sampling DAQ Cards



PXI-2010



DAQ-2010



DAQe-2010

Ordering Information / Quick Selection Guide

Model Name	Analog Input				Analog Output			DIO	Timer/Counter
	No. of channels	Resolution	Sampling rate	Input range	No. of channels	Resolution	Update rate	No. of channels	No. of channels
PXI/DAQ/DAQe-2010	4-CH DI	14 Bit	2 MS/s	±1.25 V to ±10 V	2	12 Bit	1 MS/s	24-CH 8255 PIO	2-CH, 16-Bit
PXI/DAQ/DAQe-2005	4-CH DI	16 Bit	500 kS/s	±1.25 V to ±10 V	2	12 Bit	1 MS/s	24-CH 8255 PIO	2-CH, 16-Bit
PXI/DAQ/DAQe-2006	4-CH DI	16 Bit	250 kS/s	±1.25 V to ±10 V	2	12 Bit	1 MS/s	24-CH 8255 PIO	2-CH, 16-Bit

Specifications

Model Name	PXI/DAQ/DAQe-2010	PXI/DAQ/DAQe-2005	PXI/DAQ/DAQe-2006
Analog Input			
Resolution	14 Bit	16 Bit, no missing codes	16 Bit, no missing codes
Number of channels	4 simultaneous-sampling channels with differential input		
Maximum sampling rate	2 MS/s	500 kS/s	250 kS/s
Programmable gain	1, 2, 4, 8		
Bipolar input ranges	±10 V, ±5 V, ±2.5 V, ±1.25 V		
Unipolar input ranges	0-10 V, 0-5 V, 0-2.5 V, 0-1.25 V		
Offset error	±3 mV	2 mV	±1 mV
Gain error	±0.1% of FSR	±0.04% of FSR	±0.03% of FSR
Input Coupling	DC		
Overvoltage protection	Power on: Continuous ±35 V, Power off: Continuous ±15 V		
Input Impedance	1 GΩ/100 pF		
Trigger sources	Software, external digital/analog trigger, SSI bus		
Trigger modes	Pre-trigger, post-trigger, middle-trigger, delay-trigger, and repeated trigger		
FIFO buffer size	8 k samples	512 samples	512 samples
Data transfers	Polling, scatter-gather DMA		
Analog Output			
Number of channels	2 voltage outputs		
Resolution	12 Bit		
Output ranges	0-10 V, ±10 V, 0-AOEXTREF, ±AOEXTREF		
Maximum update rate	1 µs		
Slew rate	20 V/µs		
Settling time	3 µs to ±0.5 LSB accuracy		
Offset error	±3mV	±1mV	±1mV
Gain error	±0.05% of max. output	±0.04% of max. output	±0.04% of max. output
Driving capacity	5 mA		
Stabililty	Any passive load, up to 1500 pF		
Trigger sources	Software, external digital/analog trigger, SSI bus		
Trigger modes	Post-trigger, delay-trigger, and repeated trigger		
FIFO buffer size	2 k samples		
Data transfers	Programmed I/O, scatter-gather DMA		
Digital I/O			
Number of channels	8255 24-Bit programmable input/output		
Compatibility	5 V/TTL		
Data transfers	Programmed I/O		
Timer/Counter			
Number of channels	2		
Resolution	16 Bit		
Compatibility	5 V/TTL		
Base clock available	40 MHz , external clock up to 10 MHz		
General Specifications			
Auto Calibration	Yes (+5 V, ±2 ppm/˚C)		
Dimensions	160 mm x 100 mm (not including connectors) (PXI-2000 series) 175 mm x 107 mm (not including connectors) (DAQ-2000 series) 168 mm x 107 mm (not including connectors) (DAQe-2000 series)		
Connector	68-pin VHDCI-type female		
Operating temperature	0˚C to 55˚C (32˚F to 131˚F)		
Storage temperature	-20˚C to 70˚C (-4˚F to 158˚F)		
Humidity	5 to 95%, non-condensing		
Power requirements	+5 V 1.82 A typical (PXI/DAQ-2010) +3.3 V 1.246 A, +12 V 0.448 A typical (DAQe-2010)	+5 V 2.04 A typical (PXI/DAQ-2005) +3.3 V 1.03 A, +12 V 0.75 A typical (DAQe-2005)	+5 V 1.82 A typical (DAQ-2006) +3.3 V 1.02 A, +12 V 0.67 A typical (DAQe-2006)

Features

- **Supports a 32-Bit 3.3 V or 5 V PCI bus (DAQ-2000 series)**
- **x1 lane PCI Express® Interface (DAQe-2000 series)**
- **PXI specification Rev. 2.2 compliant (PXI-2000 series)**
- **4-CH differential analog inputs**
- **Bipolar or unipolar analog input ranges**
- **Programmable gains of x1, x2, x4, x8**
- **Scatter-gather DMA for both analog inputs and outputs**
- **2-CH 12-Bit multiplying analog outputs with waveform generation**
- **24-CH TTL digital input/output**
- **2-CH 16-Bit general-purpose timer/counter**
- **Analog and digital triggering**
- **Fully auto calibration**
- **Multiple cards synchronization through SSI (System Synchronization Interface) bus or PXI trigger bus**

Supported Operating System

• Windows 7/8 x64/x86, Linux

Driver and SDK

• LabVIEW, MATLAB, C/C++, Visual Basic, Visual Studio.NET

Software Utility

• AD-Logger

Terminal Boards & Cables

- DIN-68S-01
- ACL-10568-1
- ACL-SSI-2/3/4

*** For more information on mating terminal board and cables, please refer to P3-48/49.**

Updated September 23, 2014. ©2014 ADLINK Technology, Inc. All Rights Reserved. All specifications are subject to change without further notice.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ADLINK Technology:

ACL-10568-1

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP