PCI Board Overview

12- & 16-Bit PCI Data Acquisition Boards

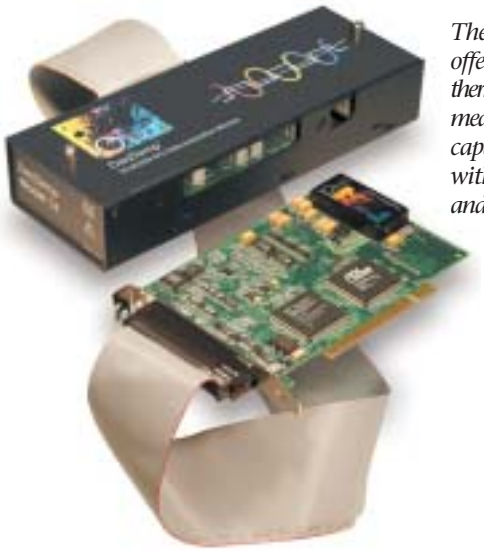
Overview

IOtech offers three series' of PCI-based data acquisition boards to match your exact application requirements. The DaqBoard/2000™ series offers the widest flexibility and feature-set of any board on the market, including synchronous I/O and support for a large selection of signal conditioning and channel expansion options. The DaqBoard/2000 series is also available in CompactPCI—contact factory for details.

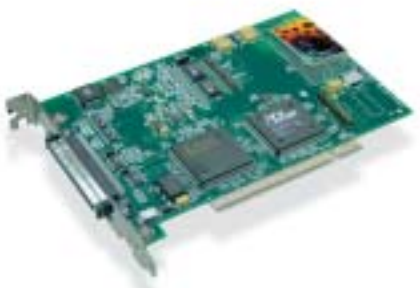
The new DaqBoard/1000™ series boards offer many of the same features as the DaqBoard/2000 series except for signal conditioning and expansion capability. Both the DaqBoard/2000 and DaqBoard/1000 series boards offer the most extensive software support in the industry, including Visual Basic®, C/C++, ActiveX/COM, LabVIEW®, MATLAB®, and Linux. The DaqBoard/2000 series also supports DASYLab®.

The low-cost, 12-bit ADAC/5500™ series of boards are ideal for applications where high quality and low price are the primary selection criteria.

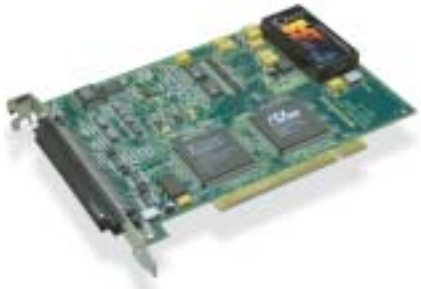
All IOtech PCI boards share a common feature set that is often limited to the higher-priced boards from other suppliers. These include DMA Bus Mastering for continuous data transfer without consuming valuable CPU time, support for multiple PCI boards in one PC, and 100% digital calibration. And unlike other suppliers who often have hidden charges such as software drivers, IOtech boards include *free of charge*, all of the drivers that you need.



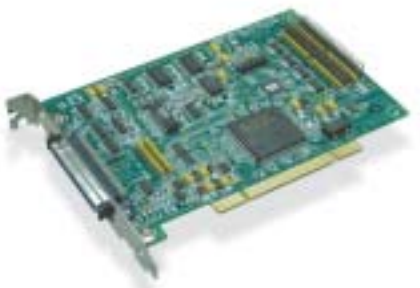
The DaqTemp series offers high-accuracy thermocouple measurement capability, along with analog, digital, and frequency I/O



DaqBoard/1000 Series



DaqBoard/2000 Series PCI and CompactPCI



ADAC/5500 Series

PCI Data Acquisition Boards Comparison Chart

Features	Multifunction I/O												Digital I/O	Analog Output
	ADAC /5500MF	ADAC /5501MF	ADAC /5501MF-V	DaqBoard /1005	DaqBoard /1000	ADAC /5503HR	ADAC /5503HR-V	DaqBoard /2005	DaqBoard /2000	DaqBoard /2001	DaqTemp /7	DaqTemp /14	DaqBoard /2002	DaqBoard /2004
Resolution (input)	12 bit	12 bit	12 bit	16 bit	16 bit	16 bit	16 bit	16 bit	16 bit	16 bit	16 bit	16 bit	—	—
Sample Rate	100 kHz	100 kHz	100 kHz	200 kHz	200 kHz	200 kHz	200 kHz	200 kHz	200 kHz	200 kHz	200 kHz	200 kHz	—	—
Voltage Inputs	8SE	8DE/16SE	8DE/16SE	8DE/16SE	8DE/16SE	8DE/16SE	8DE/16SE	8DE/16SE	8DE/16SE	8DE/16SE	7DE	7DE	—	—
Analog Input Expansion Capability	—	—	—	—	—	—	—	256	256	256	—	—	—	—
Signal Conditioning (DBK) Support	—	—	—	—	—	—	—	Yes	Yes	Yes	—	—	Digital only	Digital only
Built-in T/C Inputs	—	—	—	—	—	—	—	—	—	—	7	14	—	—
Analog Outputs (16-bit)	—	—	2	—	2	—	2	—	2	4	2 optional*	4 optional**	—	4
Digital I/O	16	48	48	24	24	48	48	40	40	40	24	24	40	40
Digital I/O Expansion Capability	—	—	—	—	—	—	—	272	272	272	—	—	272	272
Counters/Timers	4	4	4	6	6	4	4	6	6	6	6	6	6	6
C++, Visual Basic, LabVIEW Drivers	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DASYLab Drivers	—	—	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MATLAB Drivers	—	—	—	Yes	Yes	—	—	Yes	Yes	Yes	—	—	Yes	Yes
Linux Drivers	—	—	—	Yes	Yes	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ActiveX/COM Support	—	—	—	Yes	Yes	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes

* Select DaqTemp/7A for 2 analog outputs
** Select DaqTemp/14A for 4 analog outputs