ACCES I/O PRODUCTS, INC.

New Products

PCI Express 48-Channel Digital I/O Card with Change of State Detection

SAN DIEGO, CA—October 22, 2009—ACCES I/O Products, Inc., a leader in cost-effective and easy-to-use data acquisition products, announces a new addition to its PCI Express family of products—Model PCIe-DIO-48S. The PCIe-DIO-48S is a 48-channel PCI Express (PCIe) card designed for use in a variety of digital I/O applications. The digital I/O is compatible with 8255 PPI (mode 0), making it easy to program and migrate from other ACCES PCI digital I/O cards. The card features a x1 lane PCI Express connector which can be used in any x1 or higher PCI Express slot. The PCIe-DIO-48S is excellent for use in applications sensing inputs such as switch closures, TTL, LVTTL, CMOS logic *and* controlling external relays, driving indicator lights, and more.

Each I/O line is buffered and capable of sourcing 32mA or sinking 64mA. Since the PCI Express x1 connector does not have sufficient power to drive this many channels, ACCES provides an on-board Molex PC-style connector compatible with system power supplies (for disk drive power), to externally provide maximum 5V current sourcing capability.

Connections to the card are made via two industry standard, 50-pin headers. Each header has three 8-bit I/O ports designated A, B and C. Each port can be programmed as inputs or outputs. Change of State (COS) detection and interrupt capabilities are designed to relieve software from polling routines that can consume valuable processing time. Each port can be programmed for detecting state changes on their lines. An ISR (interrupt service routine) then reads the port to determine which bit changed state and clear the interrupt.

Available accessories include a broad range of ribbon cables, screw terminal boards, optically isolated adapters, electromechanical relay boards, and industry standard solid state module racks.

Key features of the PCIe-DIO-48S include:

- **48 or 24 channel high-current TTL digital I/O lines**
- **Change of State (COS) detection and interrupt capabilities**
- **Compatible with industry standard 8255 PPI**
- **Two 50-pin male headers with 24 digital lines each**
- **All 48 digital I/O lines buffered with 32mA source / 64mA sink current capabilities**
- **Four and eight bit ports independently selectable for inputs or outputs**
- **Pull-ups on DIO lines (optional pull-down)**
- **5V VCCIO (3.3V optional) available on each I/O header**
- **Molex PC-style connector for maximum 5V VCCIO current sourcing capability**
- **Compatible with industry standard I/O racks like Grayhill, Opto 22, Western Reserve Controls, etc.**

The card is supported for use in most operating systems and includes a free DOS, Linux, and Windows 2000/XP/2003/Vista/7 compatible software package. This package contains sample programs and source code in Visual Basic, Delphi, and Visual C++ for Windows. Also provided is a graphical setup program in Windows. Linux support includes installation files and basic samples for programming from user level via an open source kernel driver. Third party support includes a Windows standard DLL interface usable from the most popular application programs. Embedded OS support includes Windows XPe.

Readers can view a data sheet and manual for the new PCIe-DIO-48S card by visiting the product webpage at www.accesio.com/pcie-dio-48s

About ACCES I/O Products, Inc.
For over 20 years, ACCES I/O Products, Inc. has supplied an extensive range of analog, digital, serial communication, and isolated I/O boards and solutions. ACCES also offers complete systems, integration services and enclosures with a quick turn-around on custom projects including software. ACCES products are designed for use with PC/104, PCI, PCI Express, Low Profile PCI, Pico-ITXe, Pico-I/O, ETX, USB, USB/104, USB/PICO, Ethernet and ISA, as well as distributed and wireless I/O. All hardware comes with a 30-day, no-risk return policy and a three-year warranty. For further information, visit the company's web site at www.accesio.com

Price:	Model PCIe-DIO-48S	(48-Channel PCI Express digital I/O card)	$379.00
	Model PCIe-DIO-24S	(24-Channel PCI Express digital I/O card)	$279.00

 Please inquire for OEM and volume pricing

Availability: Now

Delivery: Stock to two weeks ARO

<u>**For Further Information, Contact**</u>**:**

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ACCES I/O Products' PCI Express 48-Channel
Digital I/O Card with Change of State Detection