PCI Express I/O Card Provides 24 Isolated Digital Inputs with Change of State Detection and 24 Solid State FET Relay Outputs

SAN DIEGO, CA—June 10, 2014—ACCES I/O Products, Inc., is pleased to announce a new addition to its PCI Express family of I/O cards—Model PCIe-IDIO-24. Designed for high-voltage protection in industrial control and monitoring applications, this product features 24 optically isolated digital inputs and 24 solid state FET relay outputs. The card is an x1 PCI Express device which can be used in any available PCI Express slot. Optocouplers on the card are rated for 2,500V isolation and help protect systems in industrial environments against high voltages or currents caused by line surges or ground loops. The solid state outputs are capable of switching from 5-34DC at 2A continuous.

The PCIe-IDIO-24 offers change of state detection (COS) on all inputs (including TTL lines), which can generate an interrupt whenever one or more of the digital inputs changes state. This eliminates the need for constant polling and reduces processor overhead. A digital change of state can be configured to detect rising, falling, or both edges.

The PCIe-IDIO-24 is especially useful in applications where high common-mode external voltages are present. Isolation is required to guard electronics from transient voltage spikes and offers greater common-mode noise rejection in surroundings containing industrial machinery and inductive loads. These applications include factory automation, energy management, industrial ON/OFF control, security systems, manufacturing test, and process monitoring.

I/O is accessed via a 78 pin DB female connector on the mounting bracket of the card. A molded breakout cable is available that divides the 78 pins into two DB37F connectors. Also available is a kit (model STB-37/2 Kit) which includes the cable, two STB-37 screw terminal boards, and a one-foot length of DIN-rail mountable SNAPTRACK to mount the screw terminal boards.

Key features of the PCIe-IDIO Series include:

- **24 optically isolated, non-polarized digital inputs**
- **Polarity insensitive AC/DC inputs accept up to 31 VDC or AC RMS**
- **Software configurable filters on inputs for electrically noisy environments**
- **Can detect input state change and assert interrupt**
- **24 optically isolated fully protected FET high-side switch outputs**
- **Outputs capable of switching from 5-34 VDC at 2A**
- **Optocouplers rated for 2.5kV isolation**
- **Four optically isolated output groups and two optically isolated input groups**
- **8 non-isolated TTL/CMOS I/O lines**
- **12-channel I/O, and input or output only versions available**

The card is supported for use in most operating systems and includes a free DOS, Linux, and Windows 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, and includes LabVIEW 8.5+ VIs. Embedded OS support includes Windows Xpe, WES7, etc.

For additional information, readers can view a data sheet and manual for the new PCIe-IDIO Series by visiting the product webpage at www.accesio.com/PCIe-IDIO-24.

About ACCES I/O Products, Inc.
For over 25 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 Ethernet, PCI Express, Mini PCI Express, USB, USB/104, USB/PICO, PC/104, PCI, Ethernet and ISA, as well as distributed, wireless I/O, and computer-on-module (COM) form factors. 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-IDIO-24 | (24-Channel Isolated Digital I/O Card) | $395.00 |
| | Model PCIe-IDIO-12 | (12-Channel Isolated Digital I/O Card) | $249.00 |

Please inquire for OEM and volume pricing

Availability: Now

Delivery: Stock to two weeks ARO

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