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New Products

High-Speed USB Module Provides 96 or 48 Lines of Optimized Digital I/O for Flexible and Economic Digital Control and Monitoring

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SAN DIEGO, CA—April 1, 2009—ACCES I/O Products, Inc. is excited to release its highest density USB module yet—Model USB-DIO-96. Designed for compact control and monitoring applications this product features 96 or 48 industrial strength TTL digital I/Os. This USB device is an ideal solution for adding portable, easy-to-install, digital I/O to any PC or embedded system with a USB port. The unit is a true USB 2.0 device, offering the highest speed available with the USB bus. It is fully compatible with both USB 1.1 and USB 2.0 ports. The unit is hot-pluggable which allows quick connect or disconnect whenever you need additional I/O on your USB port. The USB-DIO-96 is useful for monitoring dry contacts or generating outputs for controlling external devices such as LEDs and other indicators or system equipment. Applications include home, portable, laptop, education, laboratory, industrial automation and embedded OEM.

These boards use 2 or 4 industry standard 50 pin IDC-type shrouded headers with 24 lines per connector. Utility 5VDC is available on pin 49 of each connector with grounds on all even numbered pins to reduce crosstalk and maintain industry compatibility. A mini USB header connector is provided in parallel with the high retention type B connector for stacking and embedded applications. Available accessories include a wide variety of cables and screw terminal boards for quick and easy connectivity.

Key features of the USB-DIO-96 include:

- **96 or 48 lines of digital I/O**
- **High-speed USB 2.0 device, USB 1.1 backwards compatible**
- **Twelve or six 8-bit ports independently selectable for inputs or outputs**
- **All I/O lines buffered with 32 mA source, 64mA sink current capabilities**
- **I/O Buffers can be enabled or tri-stated under program control**
- **Jumper selectable I/O pulled up to 5V for contact monitoring, down to ground, or floating**
- **Resettable fused +5VDC outputs per 50-pin connector**
- **OEM version (board only) features PC/104 module size and mounting compatibility**
- **Compatible with industry standard I/O racks such as Gordos, OPTO22, Potter & Brumfield, etc. with optional cable accessory**

The USB-DIO-96 is designed to be used in rugged industrial environments but is small enough to fit nicely onto any desk or testing station. The board measures just 3.550 by 3.775 inches and ships inside a steel powder-coated enclosure with an anti-skid bottom. A DIN rail mounting provision is available for installation in industrial environments. What makes the OEM USB/104 option unique is that its PCB size and pre-drilled mounting holes match the PC/104 form factor (without the bus connections). This ensures easy installation using standard standoffs inside most enclosures or systems. The USB-DIO-96 can be integrated into any PCI-104 or PC/104 stack by connecting it to a simple USB port usually included on-board with embedded CPU form factors such as EBX, EPIC, and PC/104.

The USB-DIO-96 utilizes a high-speed custom function driver optimized for a maximum data throughput that is 50-100 times faster than the USB human interface device (HID) driver used by many competing products. This approach maximizes the full functionality of the hardware along with capitalizing the advantage of high-speed USB 2.0. The USB-DIO-96 is supported for use in most USB supported operating systems and includes a free Linux (including Mac OS X) and Windows 2000/XP/2003 compatible software package. This package

contains sample programs and source code in Visual Basic, Delphi, and Visual C++ for Windows. Also incorporated is a graphical setup program in Windows as a jumper configuration aid. Third party support includes a Windows standard DLL interface usable from the most popular application programs, and includes LabVIEW VIs. Embedded OS support includes Windows Xpe.

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 Pico-ITXe, PC/104, PCI, PCI-X, Low Profile PCI, EBX, ETX, EPIC, USB, 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.accessio.com

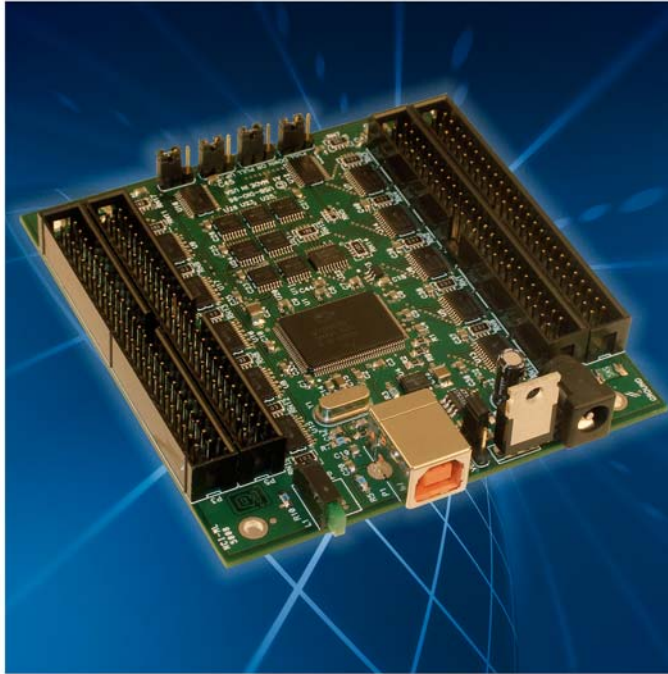
Price: Model USB-DIO-96—\$295
Model USB-DIO-48—\$195
OEM and volume pricing available, consult factory

Availability: Now

Delivery: Stock to two weeks ARO

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